

ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING AND PROSPECTING

at the

IDAHO CREEK PROPERTY

Idaho 1-22	YC41111-YC41132
Idaho 23-52	YC46510-YC46539
Idaho 53-119	YE12153-YE94799

NTS 115J/9 & 10
Latitude 62°58'N; Longitude 138°33'W

in the

Whitehorse Mining District, Yukon Territory

Field work performed from August 8 to August 11 and September 12, 2020

prepared by



By

A. Schneebeil, B.Sc., G.I.T.

December 2020

CONTENTS

<u>INTRODUCTION</u>	1
<u>PROPERTY LOCATION, CLAIM DATA, ACCESS AND INFRASTRUCTURE</u>	1
<u>HISTORY AND PREVIOUS WORK</u>	2
<u>GEOMORPHOLOGY AND CLIMATE</u>	3
<u>REGIONAL GEOLOGY</u>	3
<u>PROPERTY GEOLOGY</u>	4
<u>MINERALIZATION</u>	5
<u>RESULTS</u>	5
<u>DISCUSSION AND CONCLUSIONS</u>	8
<u>REFERENCES</u>	9

APPENDICIES

I	STATEMENTS OF QUALIFICATIONS
II	STATEMENT OF EXPENDITURES
III	DIGITAL COPY OF SOIL SAMPLE DESCRIPTIONS
IV	SOIL SAMPLE CERTIFICATES OF ANALYSIS
V	DIGITAL COPY OF ROCK SAMPLE DESCRIPTIONS
VI	ROCK SAMPLE CERTIFICATES OF ANALYSIS

FIGURES

<u>No.</u>	<u>Description</u>
1	Property Location
2	Claims Locations
3	Infrastructure, Showings and Drill Holes
4	Tectonic Setting
5	Regional Geology
6	Property Geology
7	Total Magnetic Intensity
8	Potassium Radiometric Map
9	Uranium Radiometric Map
10	Thorium Radiometric Map
11	1 st Vertical Derivative
12	2020 Soil Locations
13	Soil Results – Gold
14	Soil Results – Silver
15	Soil Results – Copper
16	Soil Results – Molybdenum
17	Soil Results – Lead
18	2020 Rock Locations
19	2020 Rock Samples – Gold
20	2020 Rock Samples – Silver
21	2020 Rock Samples – Copper
22	2020 Rock Samples – Molybdenum
23	2020 Rock Samples – Lead
24	2020 Rock Samples – Zinc

TABLES

	<u>PAGE</u>	
I	Idaho Creek Claim Information	1
II	Major Rock Units of Idaho Creek Region	4
III	Highlight Diamond Drill Results	5
IV	Highlight Rock Samples	7

INTRODUCTION

The Idaho Creek property is a silver-gold-lead-zinc prospect located in Western Yukon Territory. The property is owned by ATAC Resources Ltd. (ATAC). Funding for work described in this report was provided by ATAC, Makara Mining Corp. (Makara) and by the Yukon Mineral Exploration Program (YMEP).

PROPERTY LOCATION, CLAIM DATA, ACCESS AND INFRASTRUCTURE

The Idaho Creek property is located in western Yukon at latitude 62°45'N and longitude 138°33'W on NTS map sheets 115J/9 and 10 (Figure 1).

The property comprises a total of 58 contiguous mineral claims covering 1175 ha. The claims are registered with the Whitehorse Mining Recorder in the name of ATAC Resources Ltd. Claim data are listed below, while the locations of individual claims are shown in Figure 2.

TABLE I: IDAHO CREEK CLAIM INFORMATION

Claim	Numbers	Grants	Expiry
IDAHO	1-22	YC41111-YC41132	Feb 15, 2026
IDAHO	23-52	YC46510-YC46539	Feb 15, 2026
IDAHO	53-58	YE12153-YE12158	Feb 15, 2026
IDAHO	59-94	YE12159-YE94774	Sep 03, 2021
IDAHO	95-99	YE94775-YE94779	Feb 15, 2026
IDAHO	100-103	YE94780-YE94783	Sep 03, 2021
IDAHO	104-117	YE94784-YE94797	Feb 15, 2026
IDAHO	118-119	YE94798-YE94799	Sep 03, 2021

** Expiry dates include 2020 work, which has been filed for assessment credit and has been accepted.*

The claims are situated approximately 150 km south of Dawson City, 300 km north-northwest of Whitehorse and 14 km east of the Casino Airstrip, which has been used by aircraft up to DC-3 in size. The nearest road access points are the Freegold Road, 86 km to the southeast, and at the Minto Airstrip on the Klondike Highway, 100 km to the east-southeast. Location of the Idaho Creek camp, mineralized showing, Reverse Circulation drilling and diamond drilling are found in Figure 3.

In 2020 ATAC optioned the Idaho Creek property to Makara. Makara can acquire a 100% interest in the Idaho Creek Property by making aggregate cash payments of C\$150,000 and issuing ATAC an aggregate of 750,000 shares by July 1, 2024 and completing C\$2,000,000 in work expenditures by December 1, 2024. A one-time milestone payment of C\$1.00 per gold equivalent ounce will be paid to ATAC if a mineral resource is identified on the property. ATAC will also retain a 2% net smelter return on the property, one half of which can be purchased by Makara for C\$1,000,000.

HISTORY AND PREVIOUS WORK

The Idaho Creek area was first staked in 1985 by Freegold Venture (Chevron Canada Limited) to cover a geochemical target that was outlined in 1980 by Nat Joint Venture (Chevron and Armco Mineral Exploration Ltd.). Follow-up prospecting, geological mapping and grid soil sampling later in 1985 by Freegold Venture delineated a number of moderate to strong gold, arsenic, lead and silver anomalies along with mineralized vein float (Eaton and Halleran, 1985).

Silverquest Resources Ltd. optioned the property from Chevron in 1986 and added more claims. It conducted a two-phase exploration program that year. The first phase consisted of a bulldozer trenching and prospecting, mostly done in June. The second phase involved a one-day follow-up in August to hand pit and sample areas in the trenches that thawed during the summer (Carne and Halleran, 1986).

The Claims were sold to Rinsey Mines Limited in 1990, which briefly optioned them to Eastfield Resources Ltd. in spring 1993. There is no record of work having been done by Rinsey or Eastfield.

The area became open for staking in late spring 1993 and was soon re-staked by P.J. Ross, an independent prospector. Ross performed limited geochemical sampling, prospecting and hand trenching later that summer and optioned the claims to Island-Arc Resources Corp. in 1994. There was no record of future work on the property.

ATAC staked the Idaho Creek claims in spring 2006 and soon afterward optioned them to Klondike Silver. The 2006 program consisted of geophysical surveys and 556 m of reverse circulation (RC) drilling. The drill results returned an Au-Ag-Pb-Zn metal signature indicative of a high-level porphyry system (Wengzynowski, 2007). Additionally, approximately 16.5 km of expanding pole-dipole induced polarization (IP) surveying was conducted across a 2 x 1.5 km area centered on soil geochemical anomalies A and B.

In 2007, 1,118.42 m of diamond drilling was completed in 4 holes. All 4 holes intersected elevated gold, silver, lead, zinc associated with steeply dipping structures possibly above a buried porphyry system. The abundance of elevated gold-in-soil remains enigmatic (Smith, 2008).

In 2013, the Geological Survey of Canada completed a 1:100,000 scale regional map around the nearby Casino Cu-Mo-Au porphyry (Minfile 115J 028). During this work, a Casino suite aged porphyritic plug was mapped on the Idaho Creek property (Ryan et al., 2013).

In July 2015 ATAC contracted Precision GeoSurveys Inc. to conduct an airborne geophysical survey of the Idaho Creek property. The survey consisted of helicopter flown, high resolution magnetic and radiometric data collection of the area (Poon, 2015). Data acquired from the geophysical survey included Total Magnetic Intensity (TMI), First Vertical Derivative of TMI, Potassium – Equivalent Concentration in percentage, Thorium – Equivalent Concentration and Uranium – Equivalent Concentration. The survey revealed a 1000 x 500 m coincident total

magnetic intensity high and potassium, uranium and thorium high in the south-west corner of the property (Lane, 2016).

GEOMORPHOLOGY AND CLIMATE

The property is located in the Dawson Range, an area of western Yukon that escaped Pleistocene glaciation. This area is a deeply incised former peneplane characterized by rounded ridges and V-shaped dendritic drainages. Local elevations range from 820 m in the creek beds to 1400 m along deeply weathered ridge crests. Most of the property covers long, gentle to moderate, north facing hillsides that are heavily vegetated with thick moss, slide alder and stunted black spruce.

Soil development is poor in most parts of the claim block. Typically, organic rich soil and white volcanic ash deposits (from a ~2000 year old eruption in Alaska) lie directly atop coarse boulders surrounded by permanently frozen, clay rich mud. The boulders are derived from more massive, resistant weathering rock types and tend to obscure highly fractured to altered, recessive weathering units.

Idaho Creek cuts through the property and Isaac Creek lies to the west. Both creeks are tributaries of the Yukon River.

REGIONAL GEOLOGY

The geology of the Idaho Creek property has been mapped at 1:250,000 by the Geological Survey of Canada (Tempelman-Kluit, 1973) and at 1:100,000 by the Yukon Geological Survey (Johnston, 1995).

The Idaho Creek property is located in the Yukon-Tanana Terrane (YTT) an island arc tectonic element that was accreted to the western margin of ancient North America in early Mesozoic times (Figure 4). The claims lie south of the Tintina Fault and are underlain by a variety of late Mesozoic plutons. The property is bounded to the west by the northeast trending Dip Creek Fault and to the north by a southeast trending fault that may be an unmapped extension of the Big Creek Fault (Figure 5).

The Idaho Creek claims lie within a mineralized belt that contains numerous copper deposits and precious polymetallic veins and breccias extending southeasterly from the Casino Porphyry Deposit to the former Mt. Nansen Mine. The belt is about 1000 km long and known as the Tintina Gold Belt which spans the northern North American Cordillera (Goldfarb et al., 2000). Most of the mineralization in the belt appears to be related to Late Cretaceous quartz-feldspar porphyry dykes and plugs.

Lithologically, the region is defined by felsic to intermediate intrusive rocks, primarily early Cretaceous in age. Abundant Permian aged, variably metamorphosed potassium-feldspar augen

granite and quartz-muscovite-chlorite schist occurs regionally, often associated with Ediacaran meta-sediments, amphibolite and marble. Simpson Range Suite metadiorite and metatonalite are ubiquitous northeast of Idaho Creek property. Additionally, multiple Casino Suite quartz-feldspar porphyry intrusions are observed, regionally. See figure 5 for regional scale geological map. Descriptions of major rock units of the Idaho Creek region are made following the Yukon Geological Survey, 2019 and are located in table II, below.

TABLE II: MAJOR ROCK UNITS OF IDAHO CREEK REGION

Suite	Age	Description
Rhyolite Creek	Paleocene	Maroon, green, purple to black rhyolite, dacite and fine to very coarse-grained andesite
Prospector Mountain	Cretaceous	Syenite
Casino	late Cretaceous	Quartz-feldspar porphyry
Whitehorse	early Cretaceous	Biotite-Hornblende granodiorite, Hornblende quartz diorite, hornblende diorite, biotite-quartz monzonite, biotite granite and leucogranite
Mount Nansen	Cretaceous	Massive aphyric or feldspar-phyric andesite to dacite flows
Carmacks	Cretaceous	Augite-olivine basalt and breccia; andesite, porphyry; sandstone, pebble conglomerate, shale, tuff and coal
Sulphur Creek	Permian	Variably foliated, potassium feldspar augen granite, metaporphry
Simpson Range	Mississippian	Hornblende-bearing metagranodiorite, metadiorite and metatonalite
Finlayson	Devonian	Intermediate to mafic volcanic and volcanoclastic rocks; carbonaceous metasedimentary rocks, metachert; ultramafic rocks, serpentinite, metagabbro
Snowcap	Ediacaran	Quartzite, psammite, pelite and marble; minor greenstone and amphibolite

Regional-scale geological maps appear on the Yukon Geological Survey (YGS) website, which is periodically updated when new information becomes available (YGS, 2019).

PROPERTY GEOLOGY

Geology of the Idaho Creek property is dominated by early Cretaceous, Whitehorse Suite (mKgW) Biotite-hornblende granodiorite, hornblende quartz diorite and hornblende diorite. Multiple late Cretaceous, Casino Suite (LKfC) quartz-feldspar porphyry intrusions and dykes are found on the property. Property Geology is illustrated on figure 6.

Diamond drilling in 2007 encountered numerous steeply dipping epidote-diopside dykes and thin veins, as-well-as medium-grained granite bodies (Smith, 2008).

Geophysical survey maps are provided in figures 7-11. Radiometric and magnetic maps have identified a 1000 x 500 m coincident total magnetic intensity high and potassium, uranium and thorium high in the south-west corner of the main claim block. This anomaly roughly corresponds to Casino Suite porphyry rocks in figure 6.

MINERALIZATION

Mineralization in diamond drill holes is associated with near vertical features. The unoxidized mineralization mainly consists of fine-grained pyrite and arsenopyrite as disseminations and fine to medium grained pyrite with lesser sphalerite, galena, arsenopyrite and fine black sulphides on fractures. Fracture density and abundance of mineralization generally increase with depth. Moderate to strong wallrock alteration, consisting of epidote-sericite and chlorite-talc, is prevalent in deeper portions of the hole. Mineralization down-hole occurs proximal to medium-grained granite and epidote-diopside altered dykes and thin veins containing Ag-Pb-Zn±Au (Smith, 2008). Table of highlight diamond drill results is tabulated in table III.

TABLE III: HIGHLIGHT DIAMOND DRILL RESULTS

Hole Name	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)
ID-07-01	240.4	241.77	1.37	0.76	36.2	0.4	1.51
	250.9	253.65	2.75	0.291	209	0.91	1.14
ID-07-02	263.35	266.79	2.44	0.3	29.3	0.36	0.38
	276	277.67	1.67	0.185	49.7	0.61	0.69
ID-07-03	103.5	105.06	1.56	0.64	114	0.72	0.86
	111.3	112.15	0.85	1.27	417	8.17	4.4
ID-07-04	192.59	210.31	17.72	-	23.4	0.28	0.5

**Note: dashes indicate no significant result for that element.*

Fracture densities are typically low, reaching a maximum of one fracture per 20 cm along core axis. Fractures are generally between one millimeter and two centimeters wide and are healed with quartz, calcite, siderite and manganese.

Previous RC and diamond drilling, mapping and prospecting has identified Zn-Pb-Au-Ag±Cu metal signatures, indicative of a buried high-level porphyry system. Sulphide (pyrite-galena-sphalerite-arsenopyrite) veins, commonly occurring in gouge and breccias, on the property in conjunction with multiple intrusive units suggests the property is within a sub-epithermal vein region along the margin of or overlying a Mo±Cu±Au porphyry system (Sillitoe, 2010).

RESULTS

Exploration in 2020 focused primarily on evaluating the west and southern sides of the property. Multiple intrusive rock samples were collected, including variably altered and weathered granites, diorites and monzonites, anomalous gold, silver, molybdenum, lead and zinc. Rock samples contain trace amounts disseminated sulphide, with some samples containing

quartz±limonite±goethite veinlets. Broad spaced soil sampling occurred along the western and south western side of the property. Soil sampling was designed to duplicate 1985 soil to verify historic results and extend known soil anomalies. A 5-day prospecting and soil sampling program was conducted to assess the property for sub-epithermal Zn-Pb-Au-Ag±Cu vein mineralization and Mo±Cu±Au porphyry potential.

SOIL GEOCHEMISTRY

In 2020, crews performed gridded soil sampling on the Idaho Creek Property, collecting 468 soil samples (Figure 12).

Gridded soil sampling was performed in 2020 along the west and southern sides of the main claim block of the property to extend and confirm soil sampling conducted in 1985. Work in 2020 identified multiple clusters of anomalous gold-, silver-, molybdenum-, lead- and zinc-in-soil; as-well-as linear east-west to northwest-southeast trending linear anomalous gold-, silver-, molybdenum- and lead-in-soil. With highlight values of 308 ppb Au, 13.65 ppm Ag, 77.80 ppm Mo, 658 ppm Pb and 836. Notably, only a small cluster of anomalous copper values were returned from 2020 soil sampling.

Results from all soil sampling in 2020 are illustrated in figures 13 through 17. A digital copy of soil sample descriptions is included in appendix III and certificates of analysis are included in appendix IV.

Soil Sample Analytical Information

All soil samples were transported from the property to ALS Minerals in Whitehorse, YT in the custody of Archer Cathro employees. Samples were received, prepared and then transported to ALS Minerals' North Vancouver, BC laboratory for geochemical analyses. Soil samples were dried and screened to -80 mesh to produce a fine fraction. Splits of the fine fraction were routinely dissolved in aqua regia and analyzed for 50 elements using inductively coupled plasma-mass spectrometry and atomic emission spectroscopy (ME-MS41). All samples were also analyzed for gold using a 30g fire assay and inductively coupled plasma-atomic emission spectroscopy (Au-ICP21).

ROCK GEOCHEMISTRY

In 2020, a total of 38 rock samples were collected, focused primarily on the western and southern sides of the property (Figure 18). Results from rock sampling in 2020 are illustrated in figures 19 through 24. A digital copy of rock samples descriptions is included in appendix V and certificates of analysis are included in appendix VI.

Rock samples were collected to test the Mo±Cu±Au porphyry potential of the property as-well-as to determine different intrusive phase relationships, particularly due to the similarities between rocks on Idaho Creek and Casino Suite rocks. Multiple intrusive rock samples were

collected, including variably altered and weathered granites, diorites and monzonites which contained varying amounts of low-grade gold-, silver-, and lesser molybdenum-, lead- and zinc-in-soil. Notably, no significant copper was returned in any rock sample collected in 2020. All but one rock sample was a collected from float, due to the poor exposure of outcrop on the property, abundance of frozen clay rich mud and due to weathering resistive boulders that obstruct recessive weathering and altered rock types from being sampled. Highlight rock samples are presented in Table IV, below.

TABLE IV: HIGHLIGHT ROCK SAMPLES

Sample ID	Gold (g/t)	Silver (g/t)	Molybdenum (g/t)	Lead (%)	Zinc (%)
B0051421	0.36	15.05	7.15	0.11	0.44
B0051422	-	0.24	158.00	-	-
B0051423	0.98	9.41	3.90	-	0.13
B0051426	0.14	31.90	6.51	0.16	0.12
B0051429	0.19	76.60	5.28	0.26	-
B0051430	0.11	18.75	6.02	-	-
B0051431	0.17	43.40	2.83	-	-
B0051432	0.28	52.60	4.35	0.19	-
B0051433	0.10	8.46	2.61	-	-
B0051434	0.13	19.05	4.87	-	-
B0051435	0.17	63.40	2.26	0.13	-

**Note: dashes indicate no significant result for that element.*

Prospecting in 2020 confirmed multiple intrusive rock types on the property, with varying amounts of weathering and alterations. Geochemical results from rock sampling indicate the possibility of both sub-epithermal and porphyry style mineralization.

Rock Sample Analytical Information

Rock samples were transported to ALS Minerals in Whitehorse, YT in the custody of Archer Cathro employees. Samples were received, prepared and then transported to ALS Minerals' North Vancouver, BC laboratory for geochemical analysis. Rock samples were fine crushed before a 250 g split was pulverized to better than 85% passing 75 microns. Splits of the pulverized material were analyzed by ME-MS41, which uses an aqua regia digestion and analysis for 50 elements by inductively coupled plasma (ICP) together with mass spectrometry (MS) and atomic emission spectroscopy (AES). The samples were assayed for gold by Au-AA23, which takes a 30 g charge and prepares it by fire assay before being finished with atomic absorption spectroscopy (AAS).

Whole rock analysis was conducted using the MI-ICP06 method, which involves a lithium metaborate fusion followed by ICP-AES analysis. Hyperspectral analysis was conducted using the HYP-PKG method which includes visible and near infrared and short wave infrared spectral data collection followed by interpretation using the aiSIRIS™ package.

DISCUSSION AND CONCLUSIONS

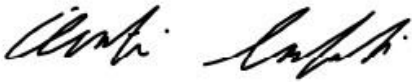
The Idaho Creek property possesses mineralization and geology that is comparable to a Mo±Cu±Au porphyry system with sub-epithermal vein mineralization. Notable in both soil sampling and rock sampling is the lack of copper anomalism, which may indicate a Mo-Au type of porphyry or that exploration efforts have yet to locate a significant copper anomaly.

Exploration in 2020 focused on the west side of the property with lesser property scale exploration. Soil sampling identified multiple clusters and linear features of gold-, silver-, molybdenum- and lead-in-soil. Future work on the property would benefit from additional systematic geochemical sampling, geological mapping and Reverse Circulation or Rotary Air Blast drilling. Furthermore, trenching to bedrock would be beneficial to understand the geology and to assess porphyry potential of the property.

Continued systematic exploration on the property for Mo±Cu±Au porphyry potential and high sulphide veins is warranted to better understand the geology and mineralization of the property.

Respectfully submitted,

ATAC Resources Ltd.

A handwritten signature in black ink, appearing to read "Austin Schneebeil".

Austin Schneebeil, B.Sc., G.I.T.

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ATAC RESOURCES LIMITED

Property Location

Coordinate System

83
Zone 7N

Date

December 2020

Figure

1

Author

AS

Rev

1

0 75 150 225 300 km



P:\Idaho\YEAR\2020\QGIS Workspace\Idaho Creek.qgz

Legend

- Major roads and highways
- Community
- Parks and protected areas
- Water

ALASKA

NORTHWEST TERRITORIES

IDAHO CREEK PROPERTY



Dawson

Mayo

Faro

Ross River

Carmacks

Haines Junction

Whitehorse

Watson Lake

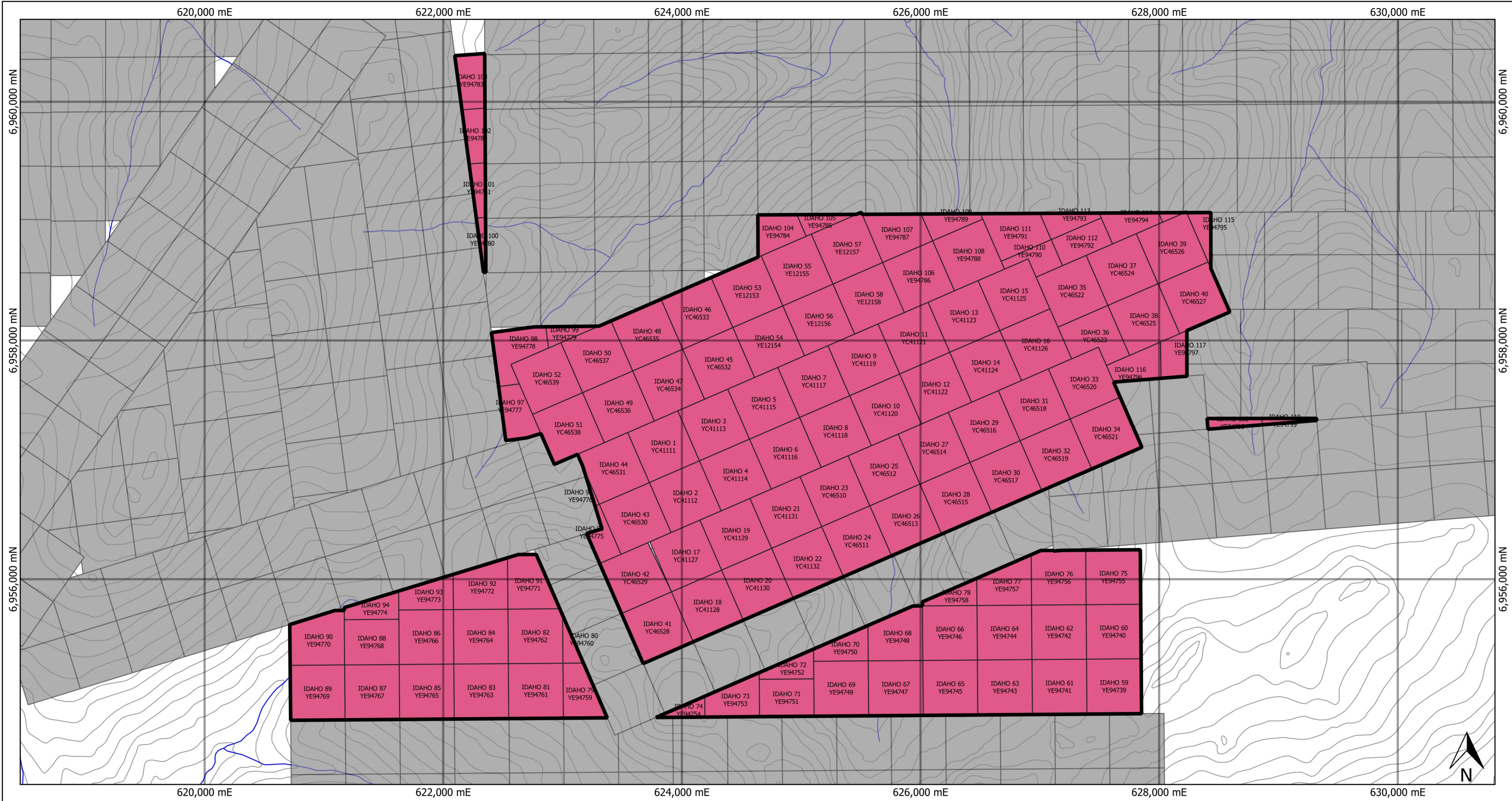
Atlin

BRITISH COLUMBIA

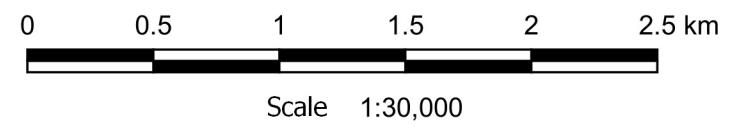
Skagway

Haines

N



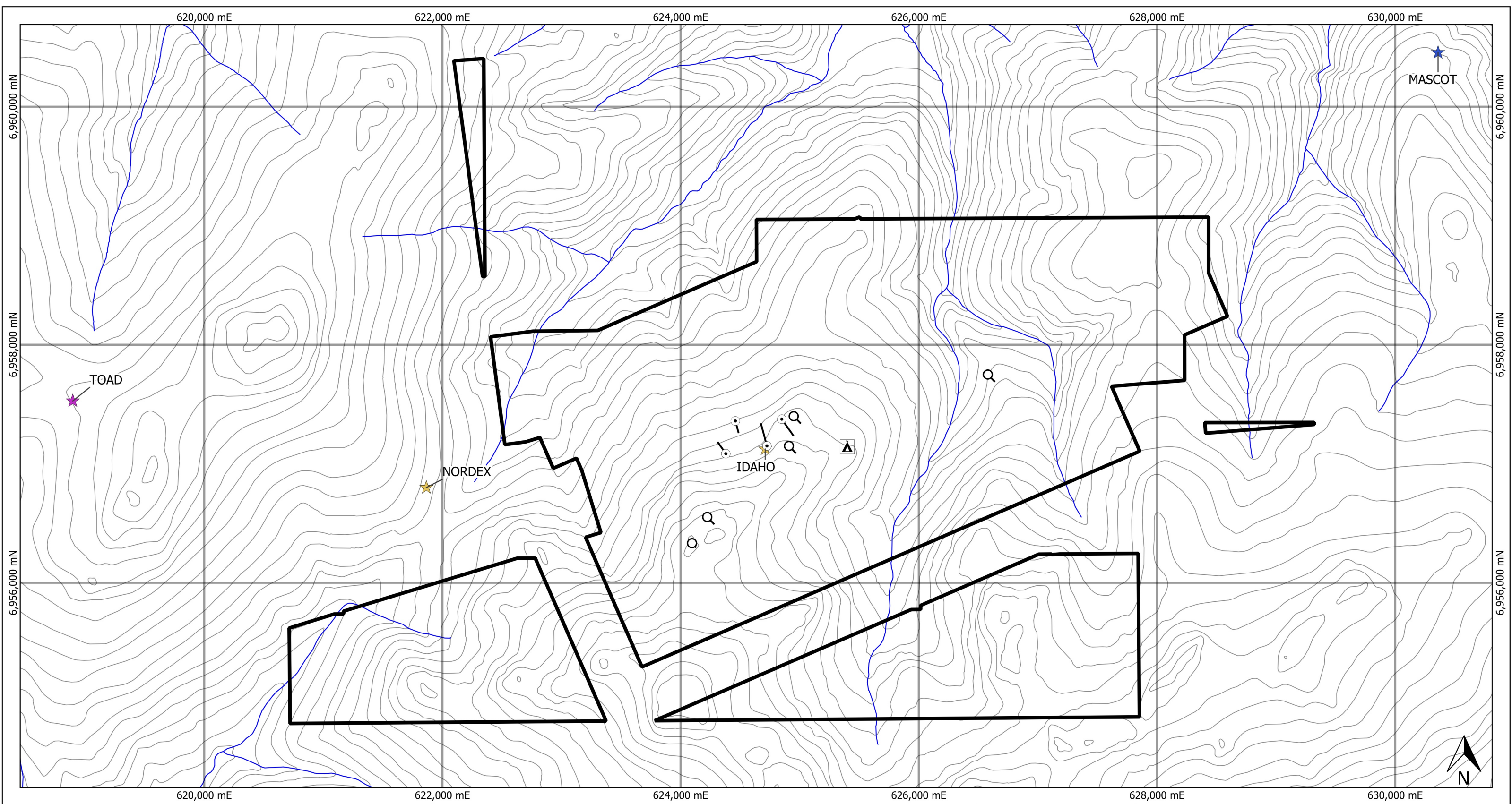
- Legend**
- ATAC IDAHO Claims
 - Other Claims
 - 100' Contours
 - Watercourse



Idaho Creek Claims

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	2	AS	1

C:\Users\aschn\OneDrive\Desktop\QGIS Workspaces\Idaho Creek Project\Idaho Creek.qgz



Legend

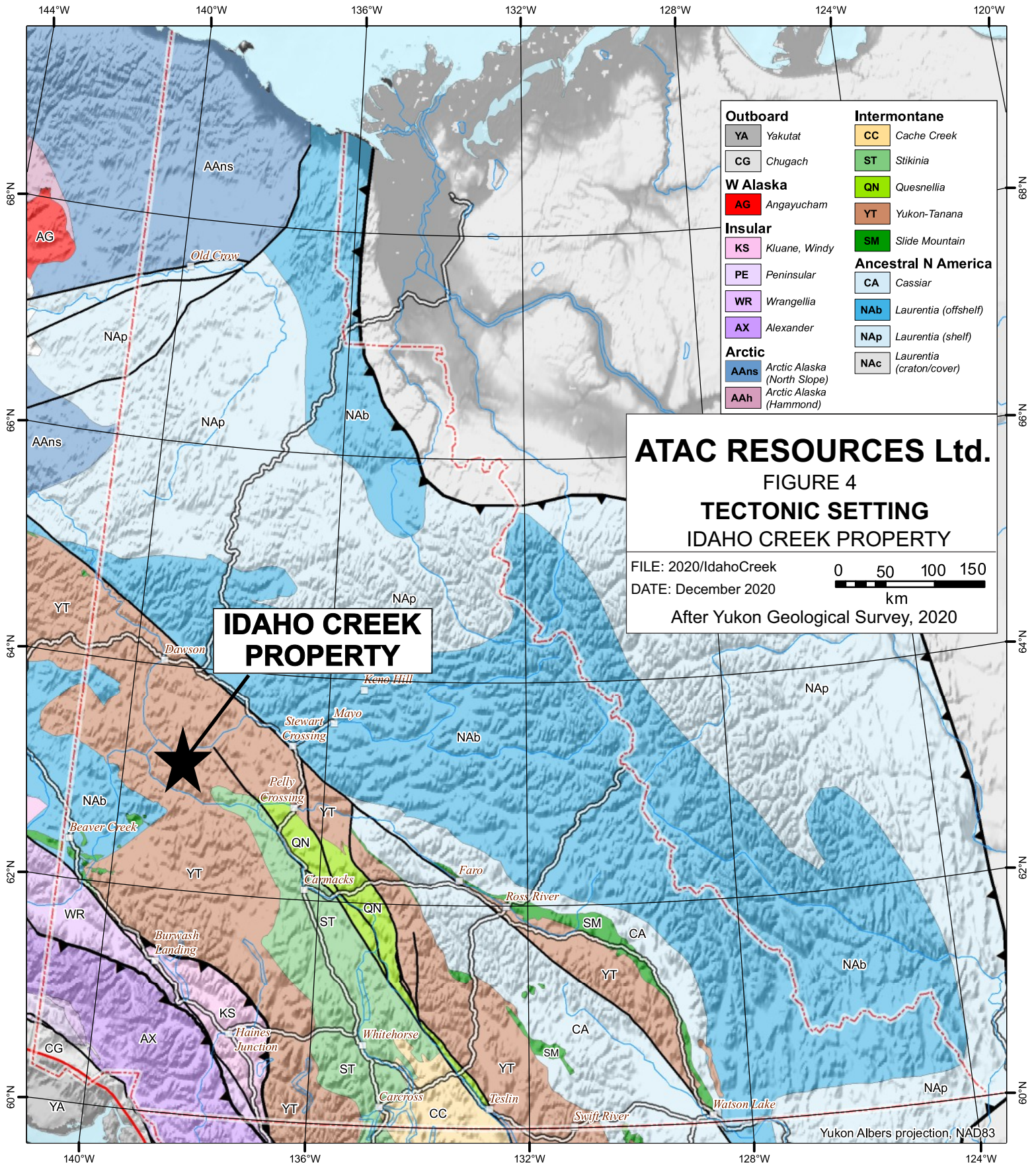
- ★ Orogenic Au
- ★ Plutonic Related Au
- ★ Unknown
- ★ Vein Polymetallic Ag-Pb-Zn+/-Au
- 2007 Diamond Drill Collar
- 2006 Reverse Circulation Collar
- ▲ 2020 Camp
- 100' Contours
- Watercourse

Scale 1:30,000

Idaho Creek

Infrastructure, Showings and Drill Holes

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	3	AS	1
C:\Users\aschn\OneDrive\Desktop\QGIS Workspaces\Idaho Creek Project\Idaho Creek.qgz				



Outboard	Intermontane
YA Yakutat	CC Cache Creek
CG Chugach	ST Stikinia
W Alaska	QN Quesnellia
AG Angayucham	YT Yukon-Tanana
Insular	SM Slide Mountain
KS Klugane, Windy	Ancestral N America
PE Peninsular	CA Cassiar
WR Wrangellia	NAb Laurentia (offshelf)
AX Alexander	NAp Laurentia (shelf)
Arctic	NAc Laurentia (craton/cover)
AAAns Arctic Alaska (North Slope)	
AAh Arctic Alaska (Hammond)	

ATAC RESOURCES Ltd.
FIGURE 4
TECTONIC SETTING
IDAHO CREEK PROPERTY

FILE: 2020/IdahoCreek
 DATE: December 2020

0 50 100 150
 km

After Yukon Geological Survey, 2020

IDAHO CREEK PROPERTY

Yukon Albers projection, NAD83

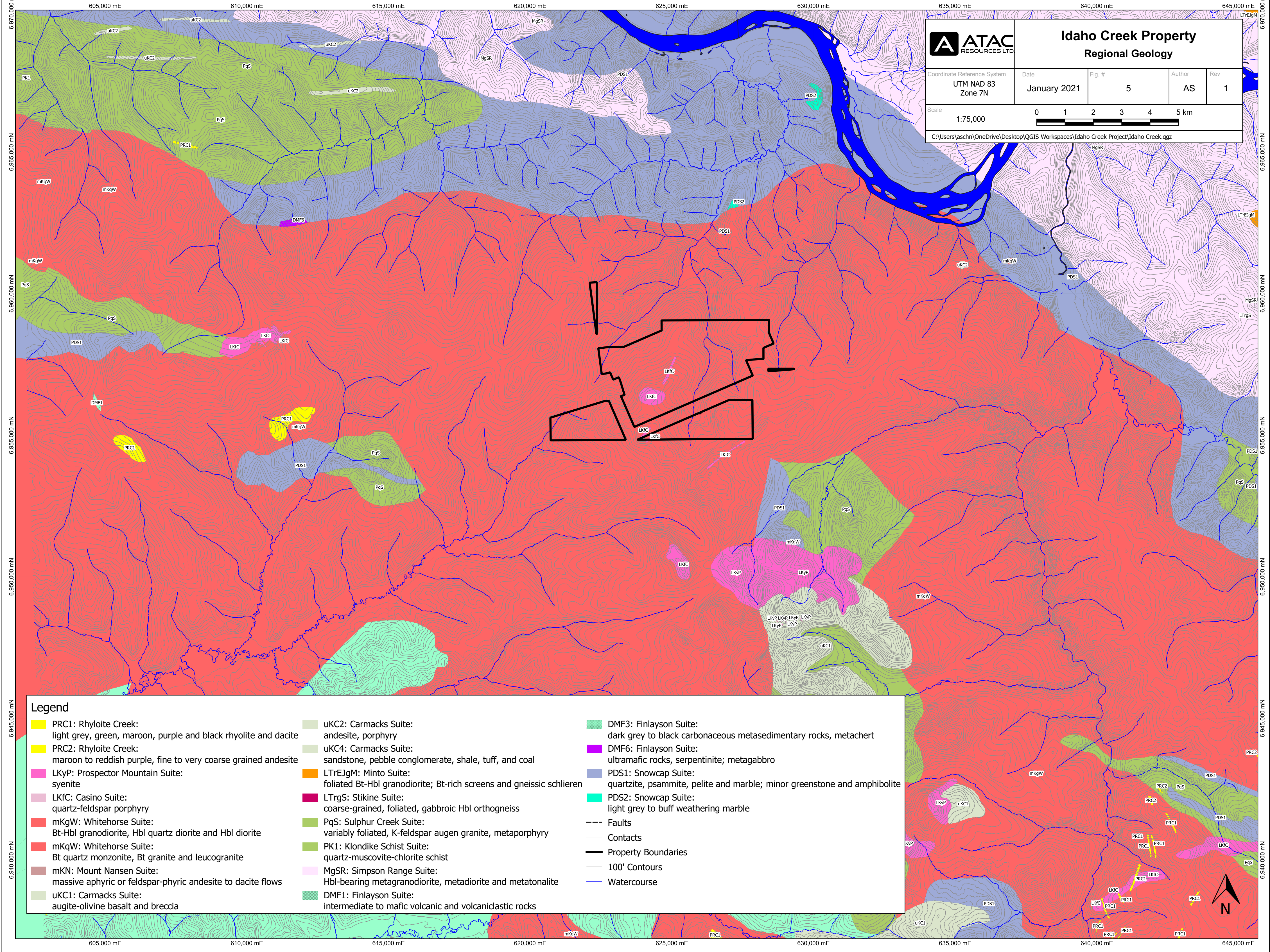


Idaho Creek Property Regional Geology

Coordinate Reference System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	5	AS	1

Scale	0 1 2 3 4 5 km				
1:75,000					

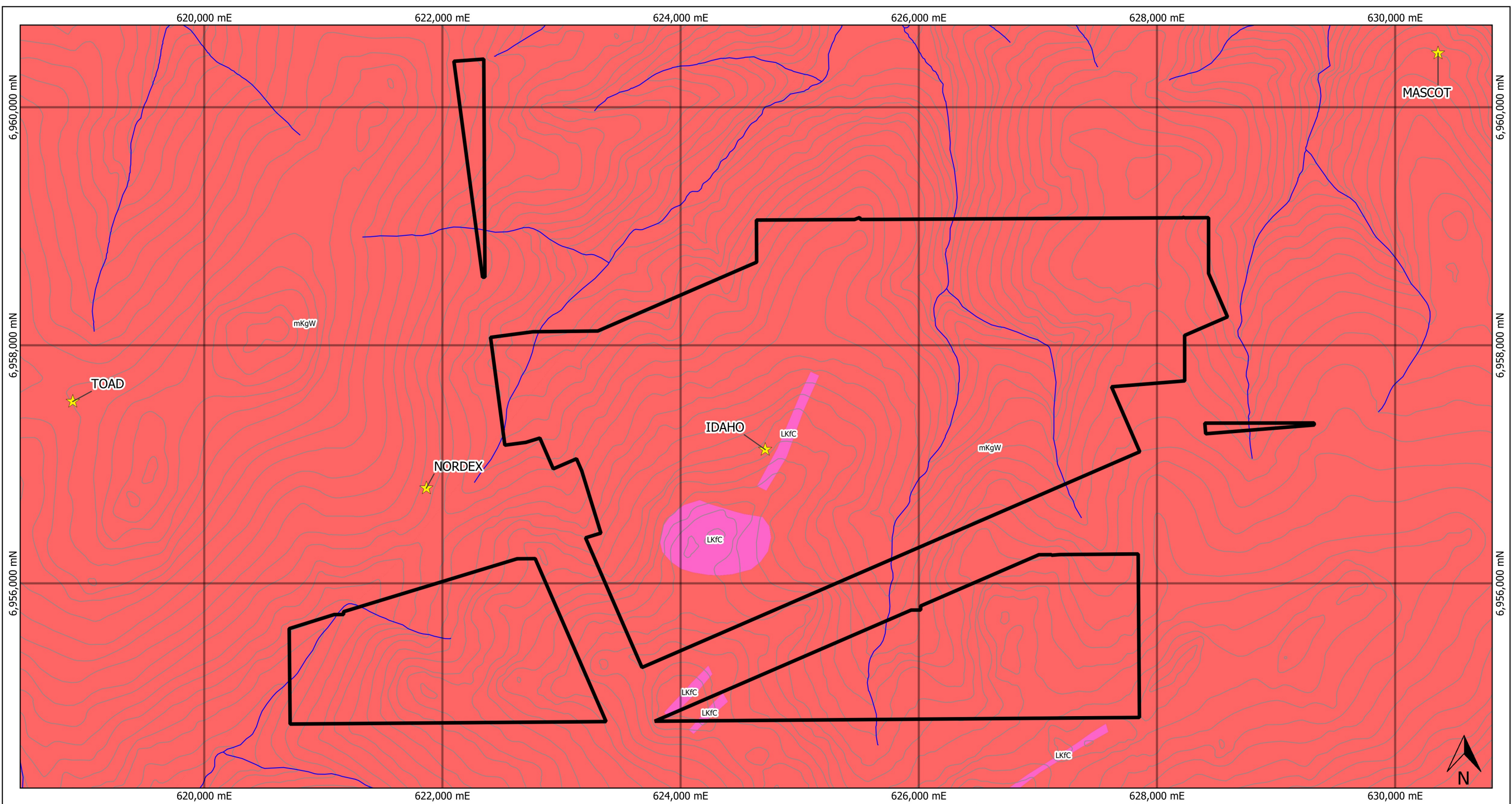
C:\Users\aschn\OneDrive\Desktop\QGIS Workspaces\Idaho Creek Project\Idaho Creek.ggz



Legend

PRC1: Rhyloite Creek: light grey, green, maroon, purple and black rhyolite and dacite	uKC2: Carmacks Suite: andesite, porphyry	DMF3: Finlayson Suite: dark grey to black carbonaceous metasedimentary rocks, metachert
PRC2: Rhyloite Creek: maroon to reddish purple, fine to very coarse grained andesite	uKC4: Carmacks Suite: sandstone, pebble conglomerate, shale, tuff, and coal	DMF6: Finlayson Suite: ultramafic rocks, serpentinite; metagabbro
LKyP: Prospector Mountain Suite: syenite	LTrEJgM: Minto Suite: foliated Bt-Hbl granodiorite; Bt-rich screens and gneissic schlieren	PDS1: Snowcap Suite: quartzite, psammite, pelite and marble; minor greenstone and amphibolite
LKfC: Casino Suite: quartz-feldspar porphyry	LTrgS: Stikine Suite: coarse-grained, foliated, gabbroic Hbl orthogneiss	PDS2: Snowcap Suite: light grey to buff weathering marble
mKgW: Whitehorse Suite: Bt-Hbl granodiorite, Hbl quartz diorite and Hbl diorite	PqS: Sulphur Creek Suite: variably foliated, K-feldspar augen granite, metaporphry	Faults
mKqW: Whitehorse Suite: Bt quartz monzonite, Bt granite and leucogranite	PK1: Klondike Schist Suite: quartz-muscovite-chlorite schist	Contacts
mKN: Mount Nansen Suite: massive aphyric or feldspar-phyric andesite to dacite flows	MgSR: Simpson Range Suite: Hbl-bearing metagranodiorite, metadiorite and metatonalite	Property Boundaries
uKC1: Carmacks Suite: augite-olivine basalt and breccia	DMF1: Finlayson Suite: intermediate to mafic volcanic and volcanoclastic rocks	100' Contours
		Watercourse





Legend

- LKfC: Casino Suite: quartz-feldspar porphyry
- mKgW: Whitehorse Suite: Bt-Hbl granodiorite, Hbl quartz diorite and Hbl diorite
- Faults
- Contacts
- Property Boundaries
- Mineral Occurrences
- 100' Contours
- Watercourse

0 0.5 1 1.5 2 2.5 km

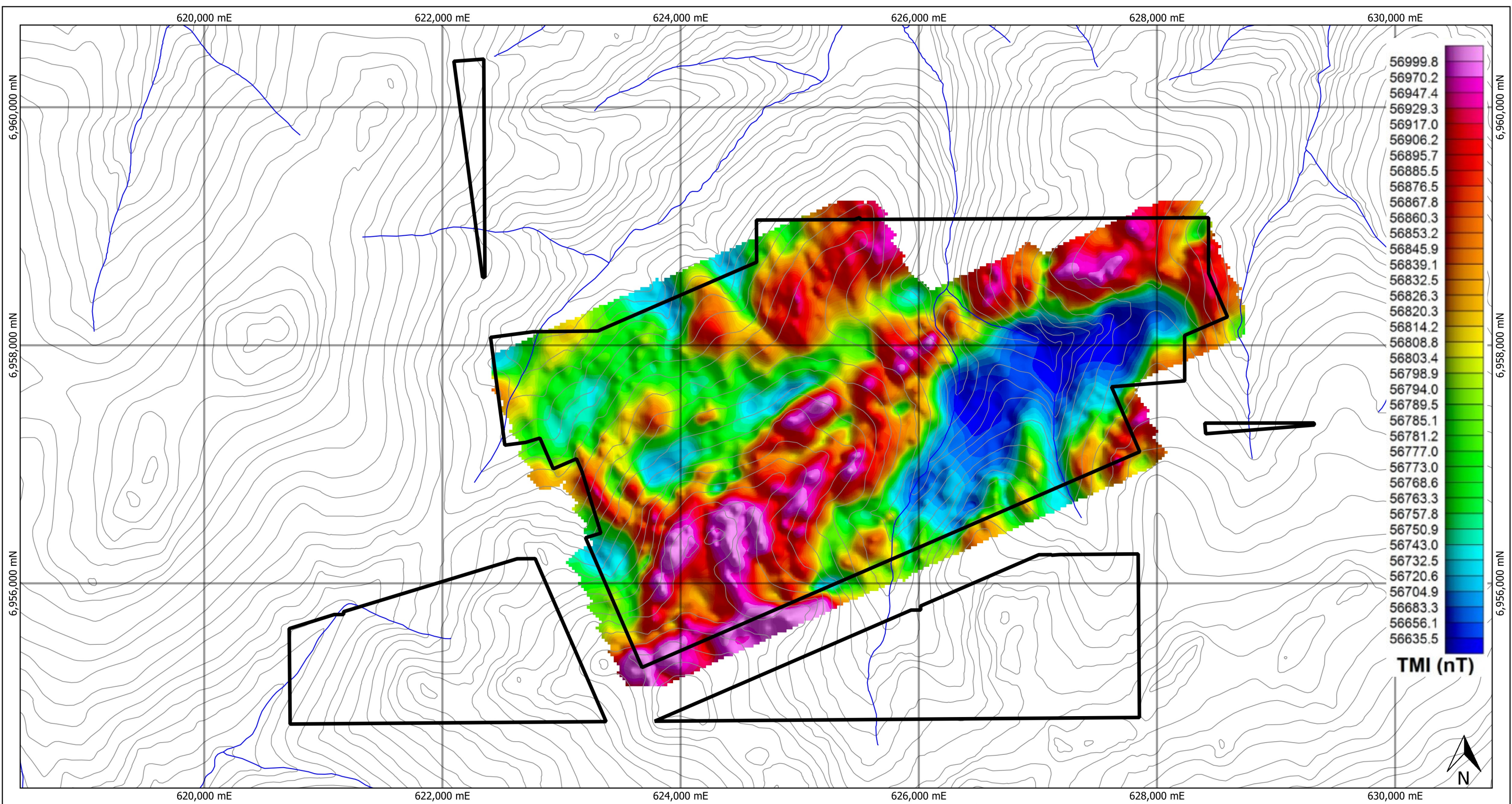
Scale 1:30,000

Idaho Creek

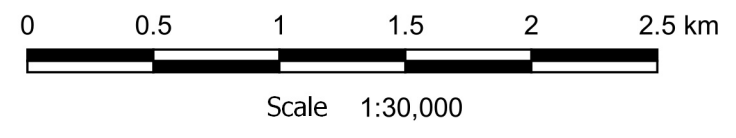
Property Geology

Coordinate System UTM NAD 83 Zone 7N	Date January 2021	Fig. # 6	Author AS	Rev 1
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C:\Users\aschn\OneDrive\Desktop\QGIS Workspaces\Idaho Creek Project\Idaho Creek.qgz



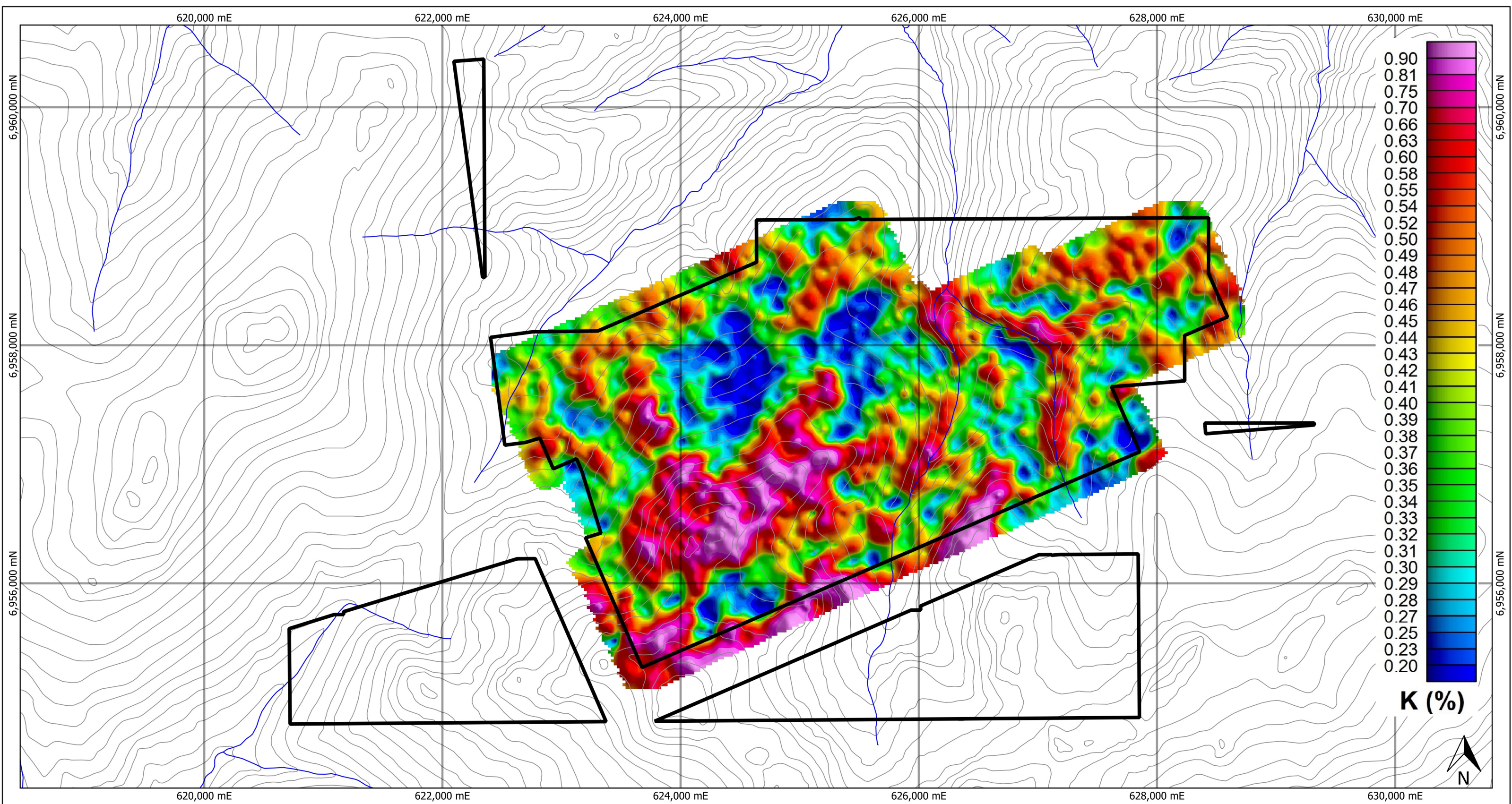
- Legend**
- Property Boundaries
 - 100' Contours
 - Watercourse



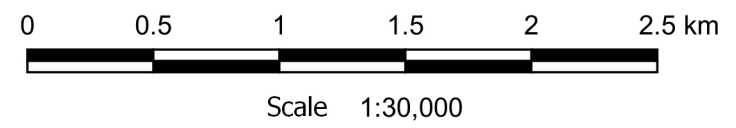
Idaho Creek
Total Magnetic Intensity

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	7	AS	1

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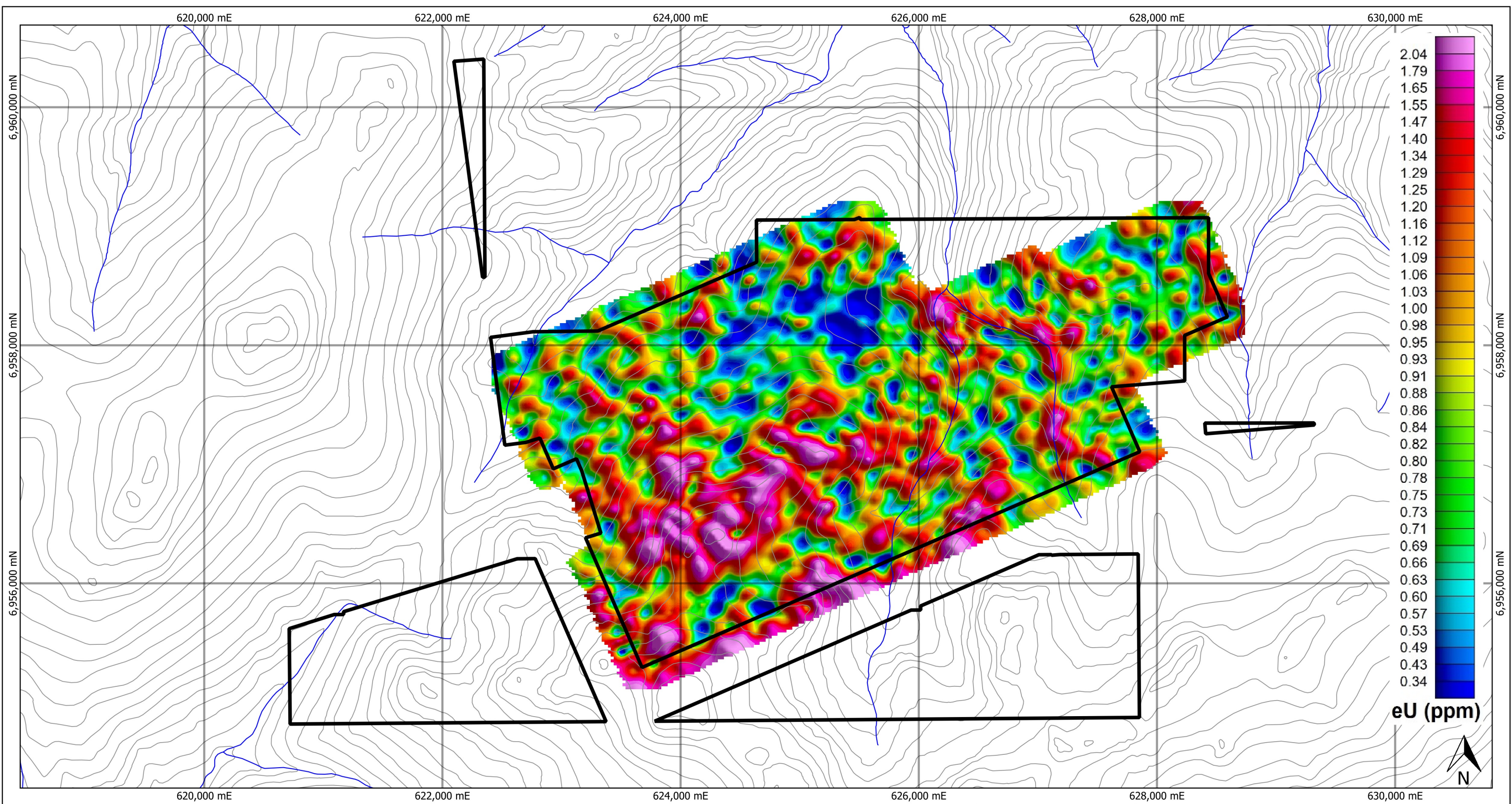
- Legend**
- Property Boundaries
 - 100' Contours
 - Watercourse



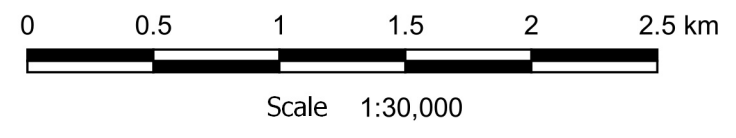
Idaho Creek
Potassium Radiometric Map

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	8	AS	1

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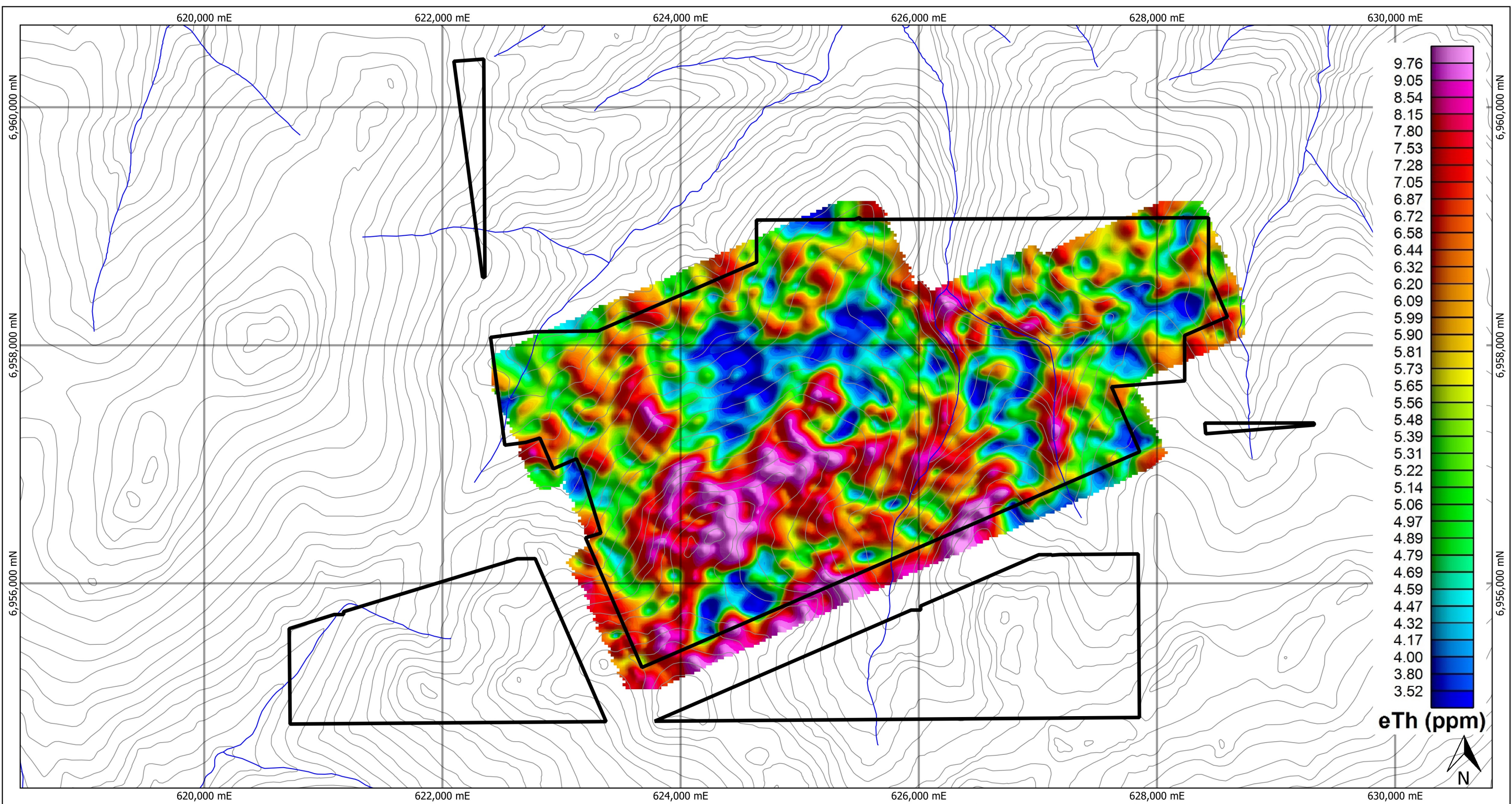
- Legend**
- Property Boundaries
 - 100' Contours
 - Watercourse



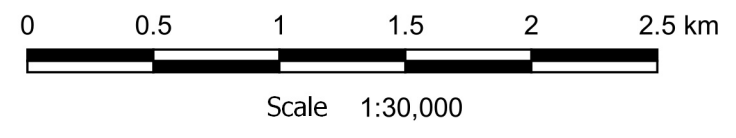
**Idaho Creek
Uranium Radiometric Map**

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	9	AS	1

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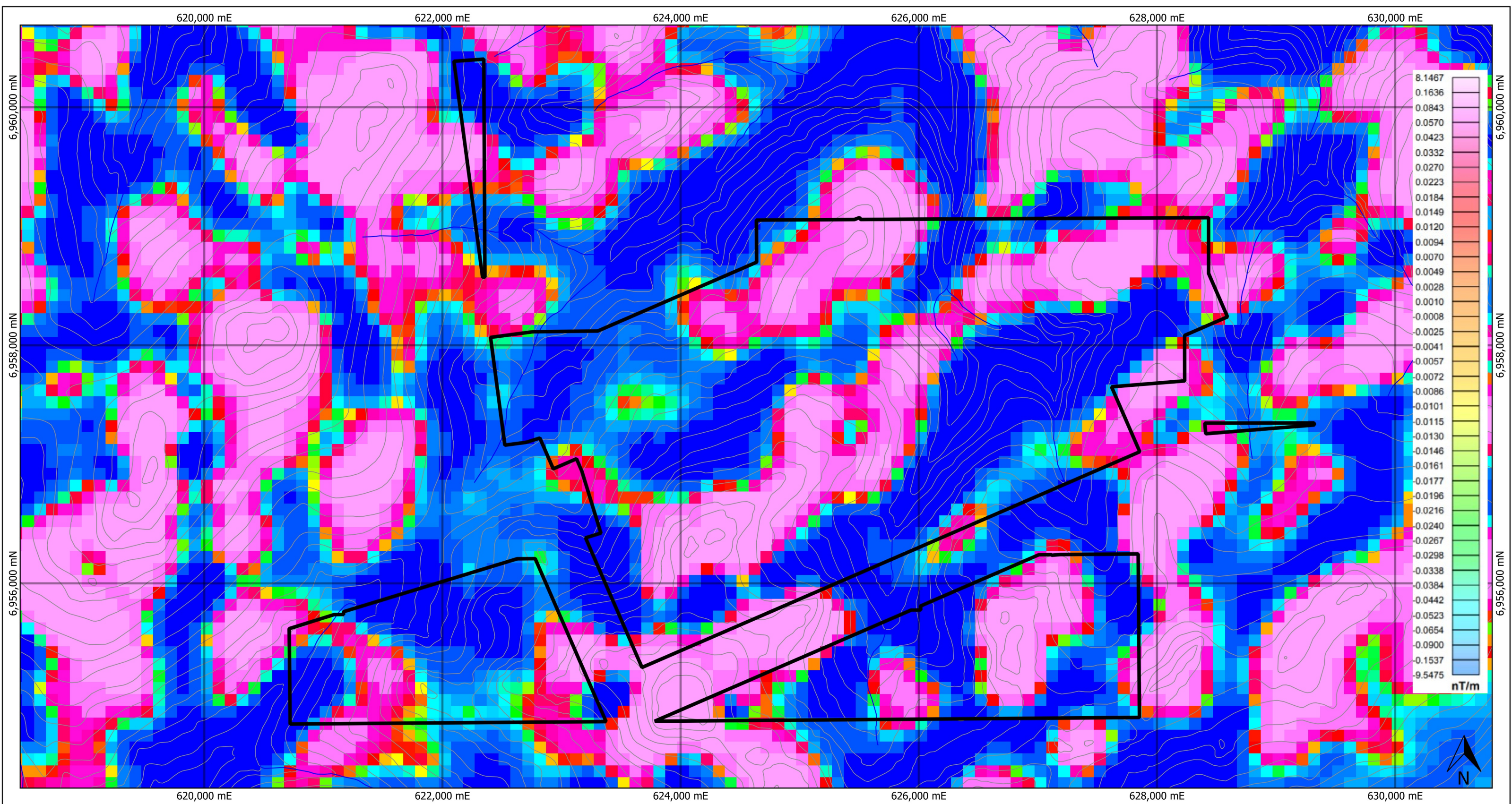
- Legend**
- Property Boundaries
 - 100' Contours
 - Watercourse



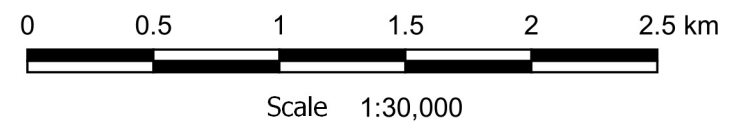
**Idaho Creek
Thorium Radiometric Map**

Coordinate System UTM NAD 83 Zone 7N	Date January 2021	Fig. # 10	Author AS	Rev 1
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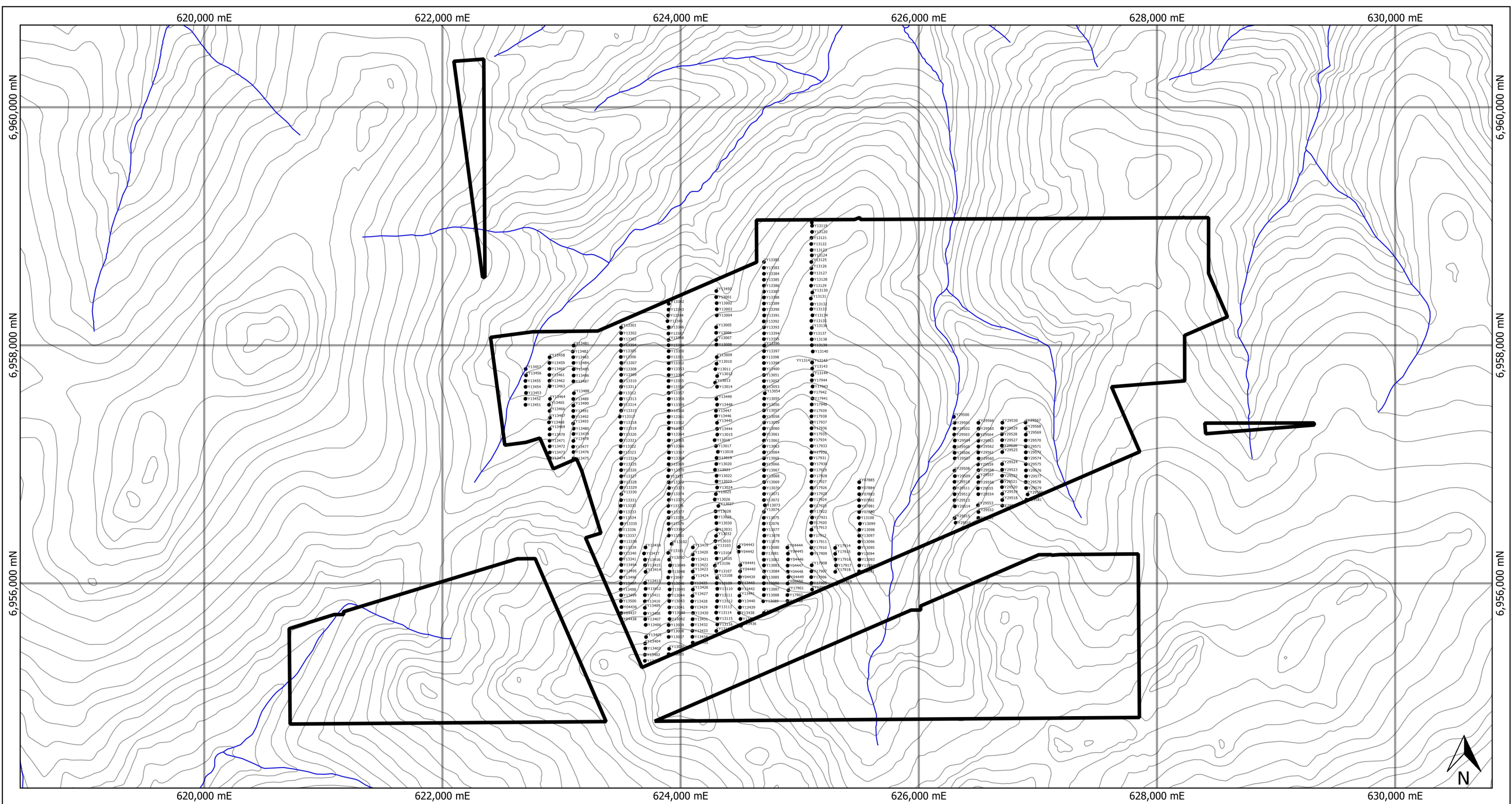
- Legend**
- Property Boundaries
 - 100' Contours
 - Watercourse



Idaho Creek
1st Vertical Derivative

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	11	AS	1

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Legend

- Soil Samples
- 100' Contours
- Watercourse

0 0.5 1 1.5 2 2.5 km

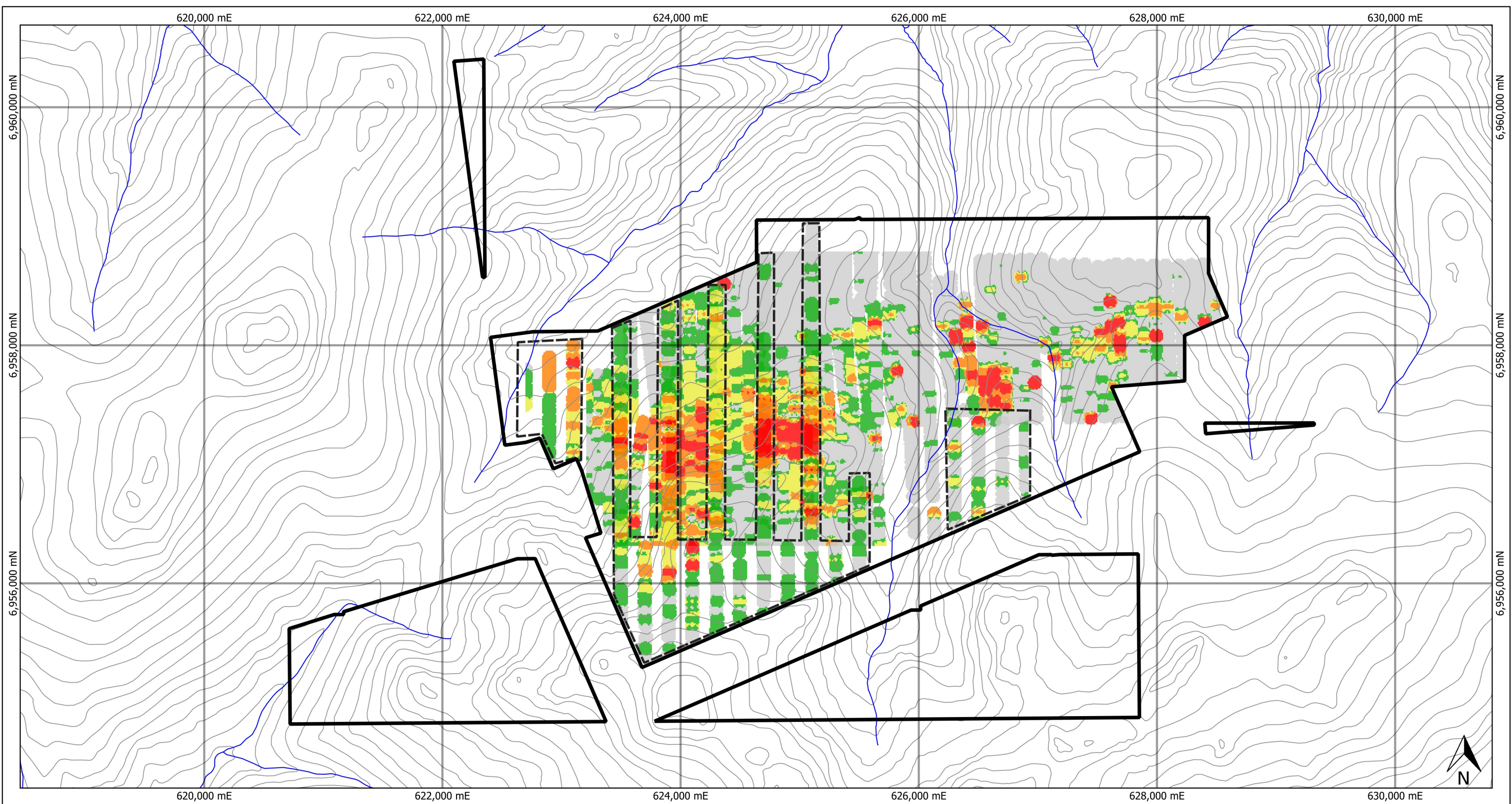
Scale 1:30,000

Idaho Creek

2020 Soil Sample Locations

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	12	AS	1

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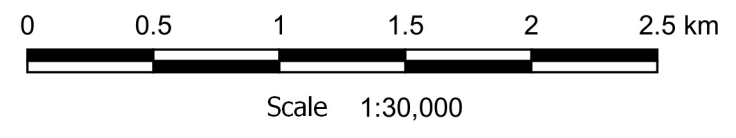


Legend

Soil Samples (Au - ppb)

- <= 5
- 5 - 10
- 10 - 20
- 20 - 50
- >50

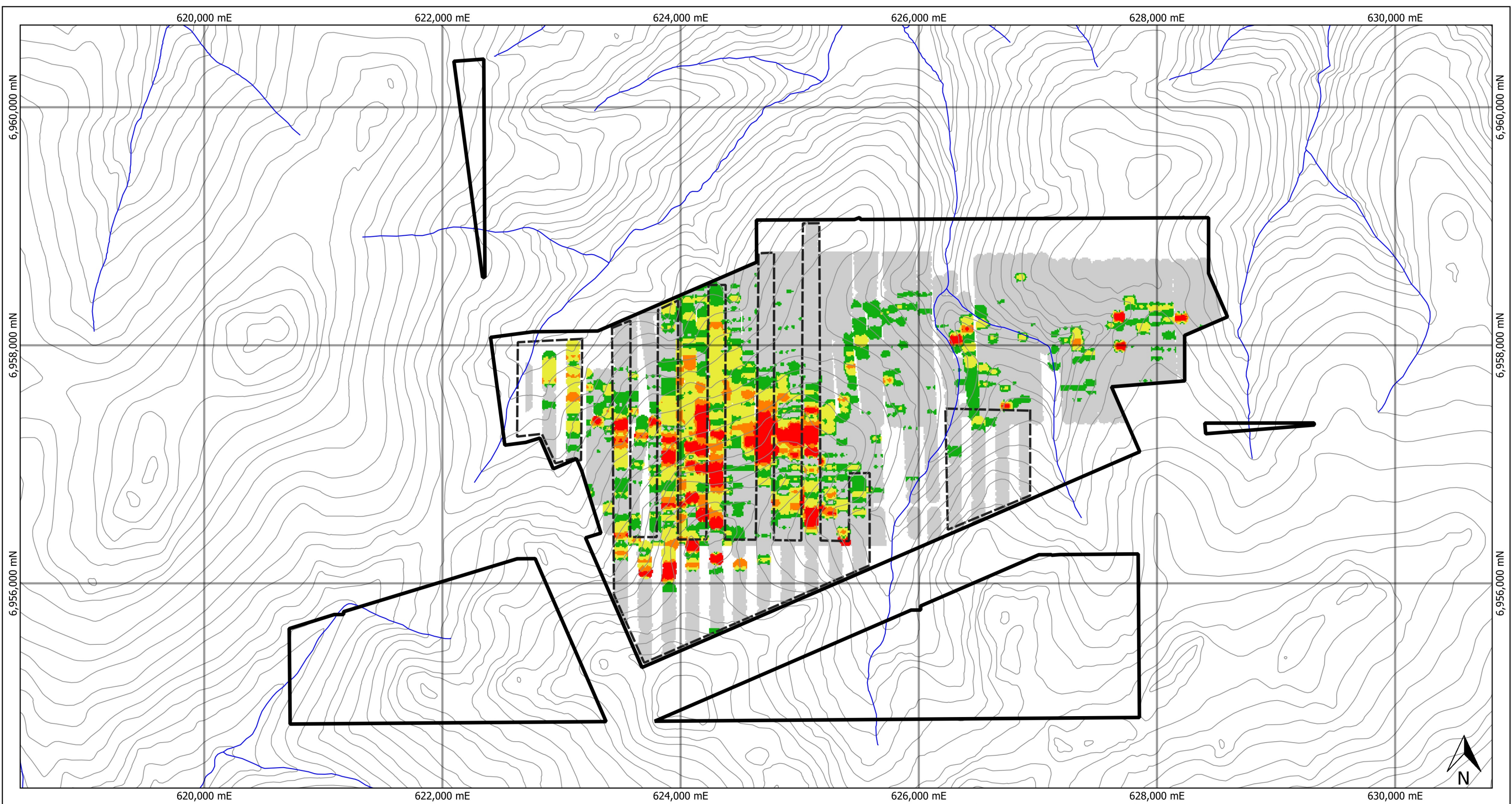
2020 Soil Outline
 100' Contours
 Watercourse



Idaho Creek
Soil Sample Results - Gold

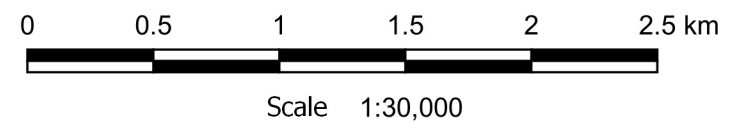
Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	13	AS	1

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Legend

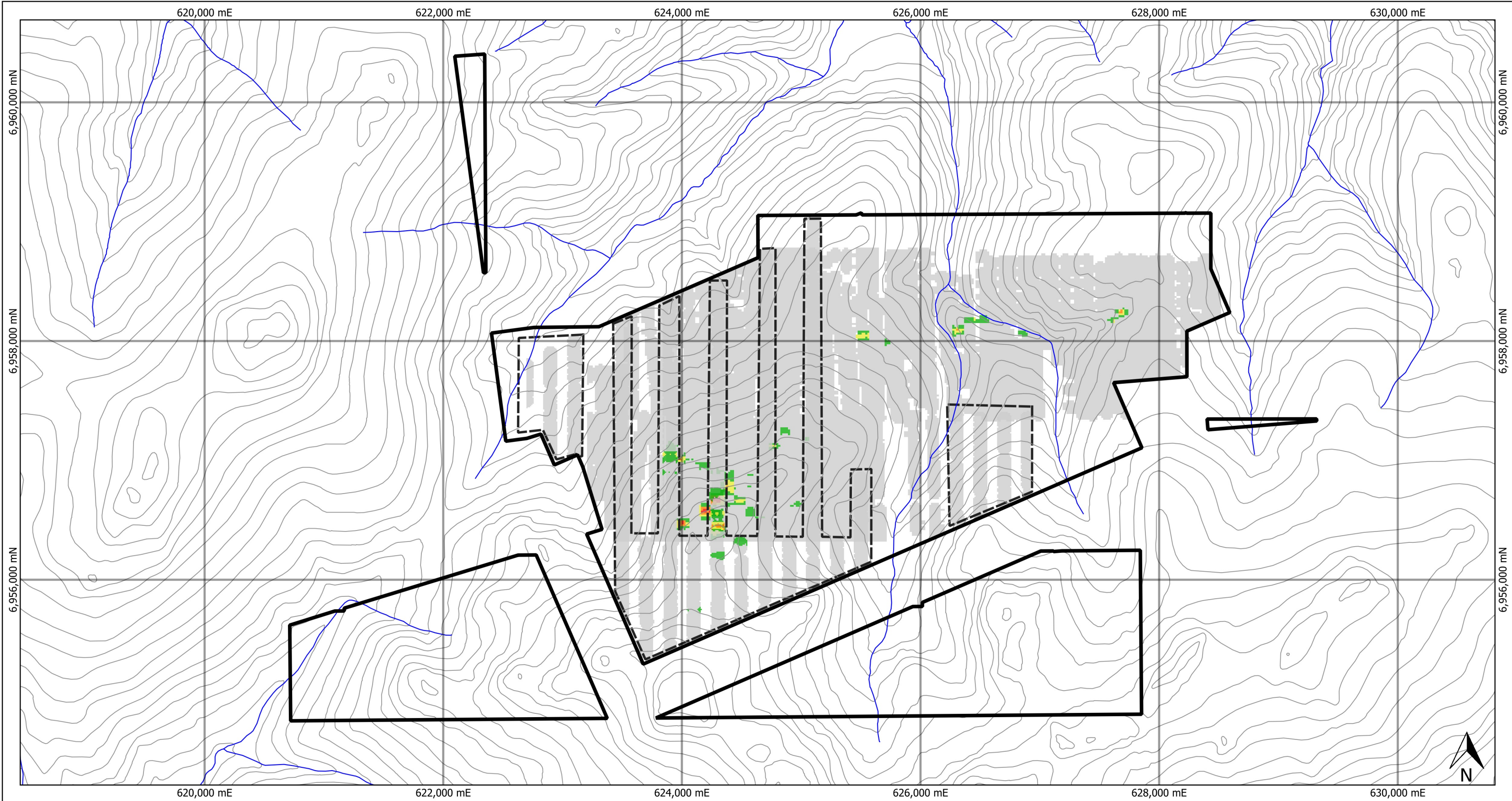
- Soil Samples (Ag - ppm)
- <= 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 122
- 2020 Soil Outline
- 100' Contours
- Watercourse



Idaho Creek
Soil Sample Results - Silver

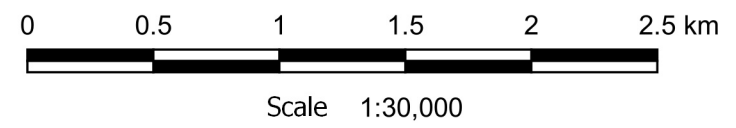
Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	14	AS	1

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Legend

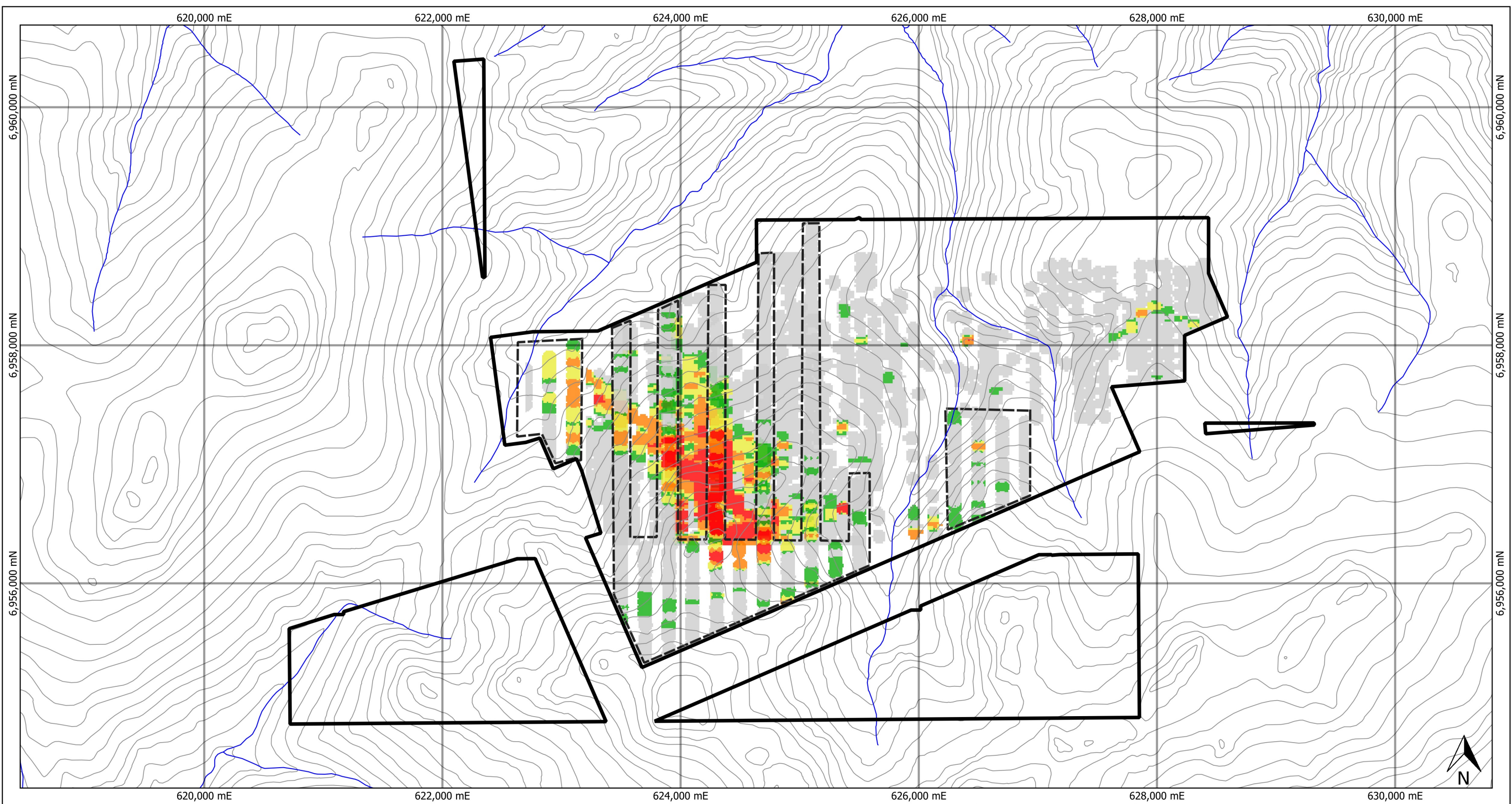
- Soil Samples (Cu - ppm)
 - <= 30
 - 30 - 50
 - 50 - 75
 - 75 - 100
 - 100 - 145
- 2020 Soil Outline
 - 100' Contours
 - Watercourse



Idaho Creek
Soil Sample Results - Copper

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	15	AS	1

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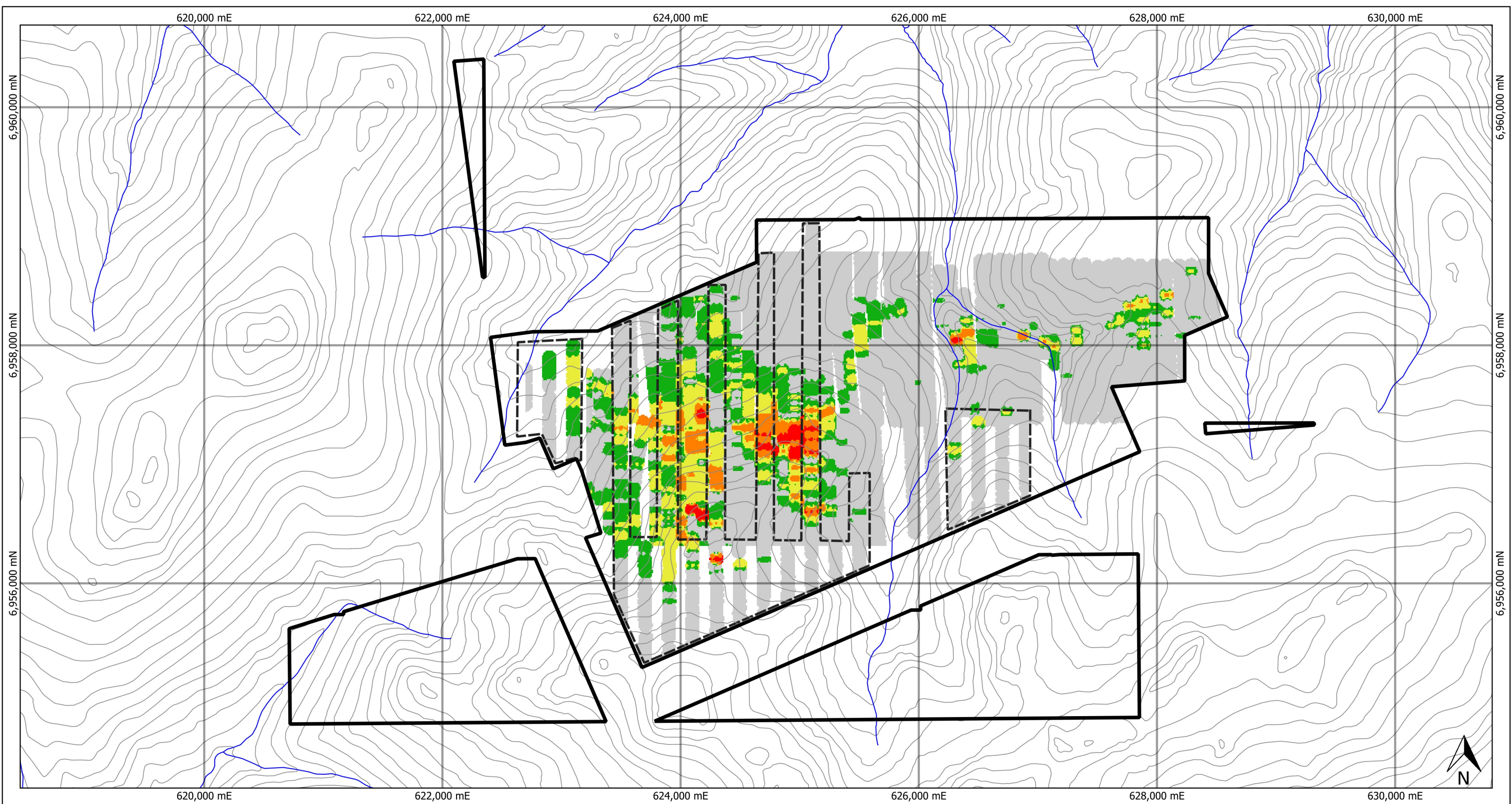
Legend

Soil Samples (Mo - ppm)	2020 Soil Outline
<= 2	100' Contours
2 - 3	Watercourse
3 - 5	
5 - 10	
10 - 132	

0 0.5 1 1.5 2 2.5 km

 Scale 1:30,000

		Idaho Creek		
Soil Sample Results - Molybdenum				
Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	16	AS	1
C:\Users\aschn\OneDrive\Desktop\QGIS Workspaces\Idaho Creek Project\Idaho Creek.qgz				



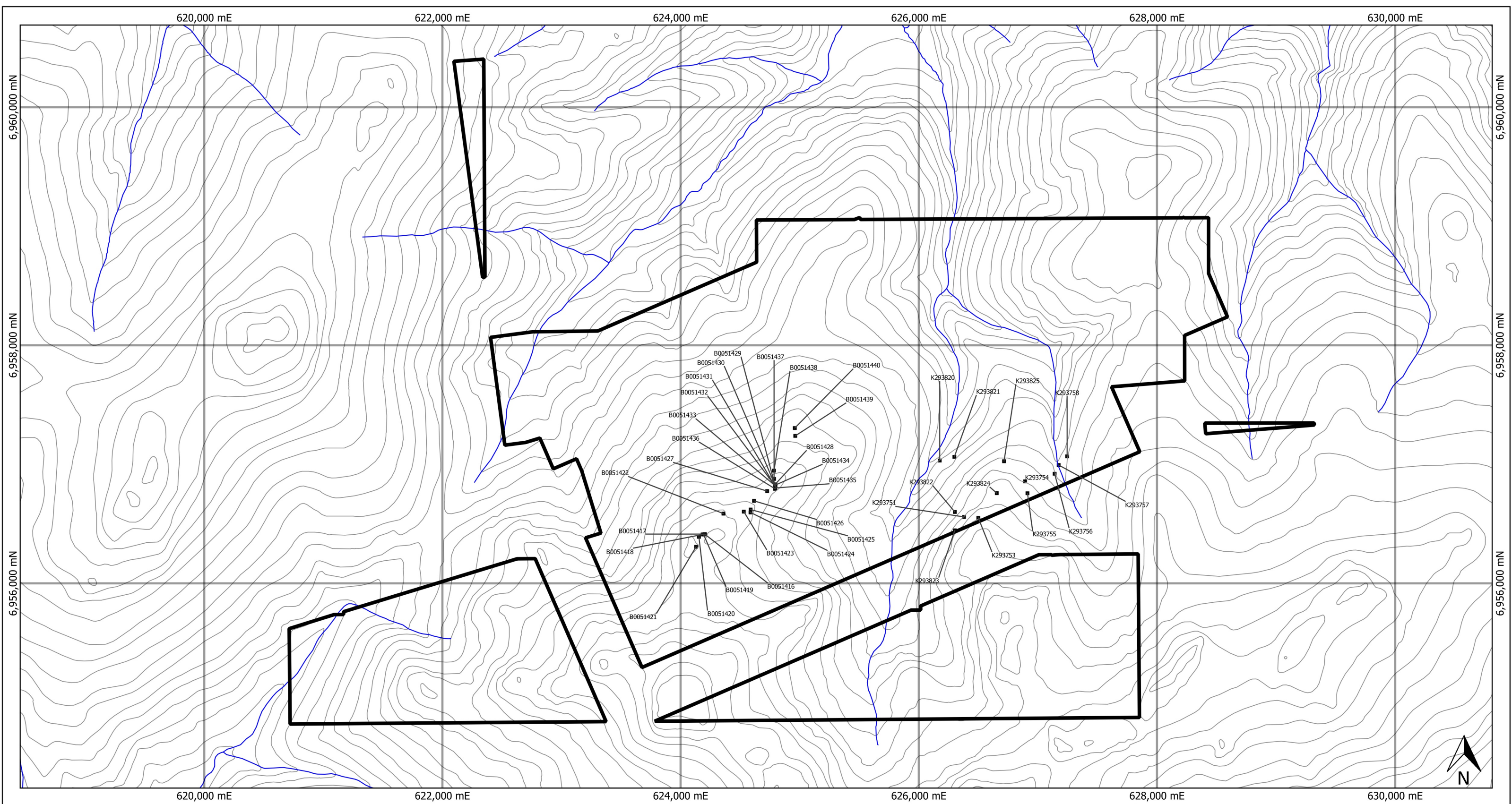
Legend

Soil Samples (Pb - ppm)	2020 Soil Outline
≤ 50	100' Contours
50 - 100	Watercourse
100 - 200	
200 - 500	
500 - 6172	

0 0.5 1 1.5 2 2.5 km

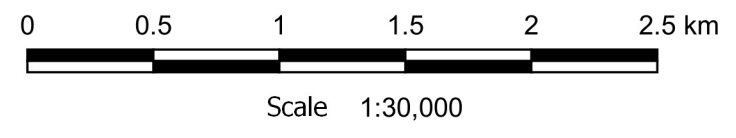
 Scale 1:30,000

		Idaho Creek		
Soil Sample Results - Lead				
Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	17	AS	1
C:\Users\aschn\OneDrive\Desktop\QGIS Workspaces\Idaho Creek Project\Idaho Creek.qgz				



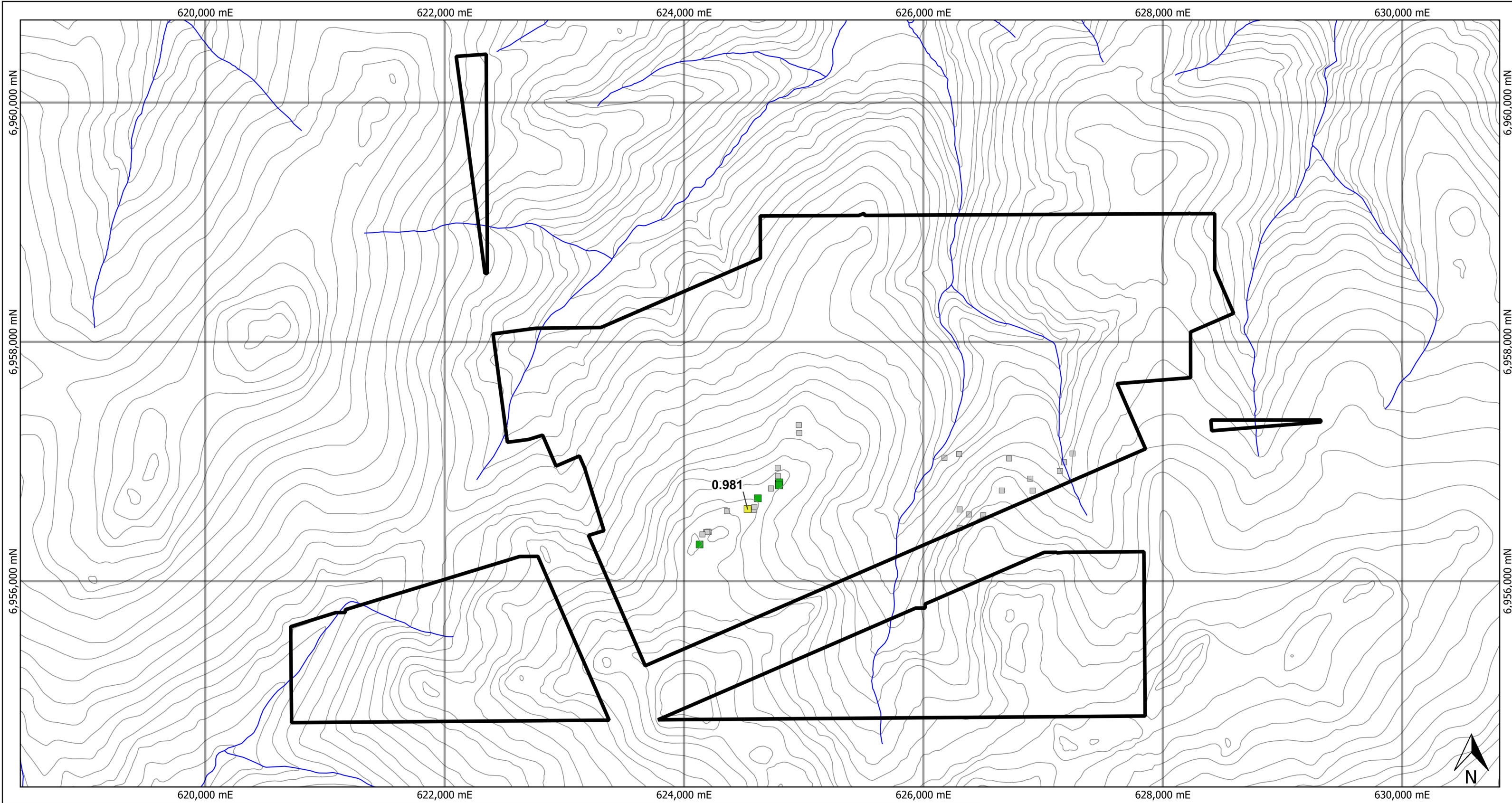
Legend

- Rock Samples
- 100' Contours
- Watercourse



Idaho Creek
2020 Rock Sample Locations

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	18	AS	1



Legend

Rock Samples (Au - g/t)

- <math>< 0.10</math>
- 0.10 - 0.50
- 0.50 - 1.00
- 1.00 - 3.00
- >3.00

— 100' Contours
— Watercourse

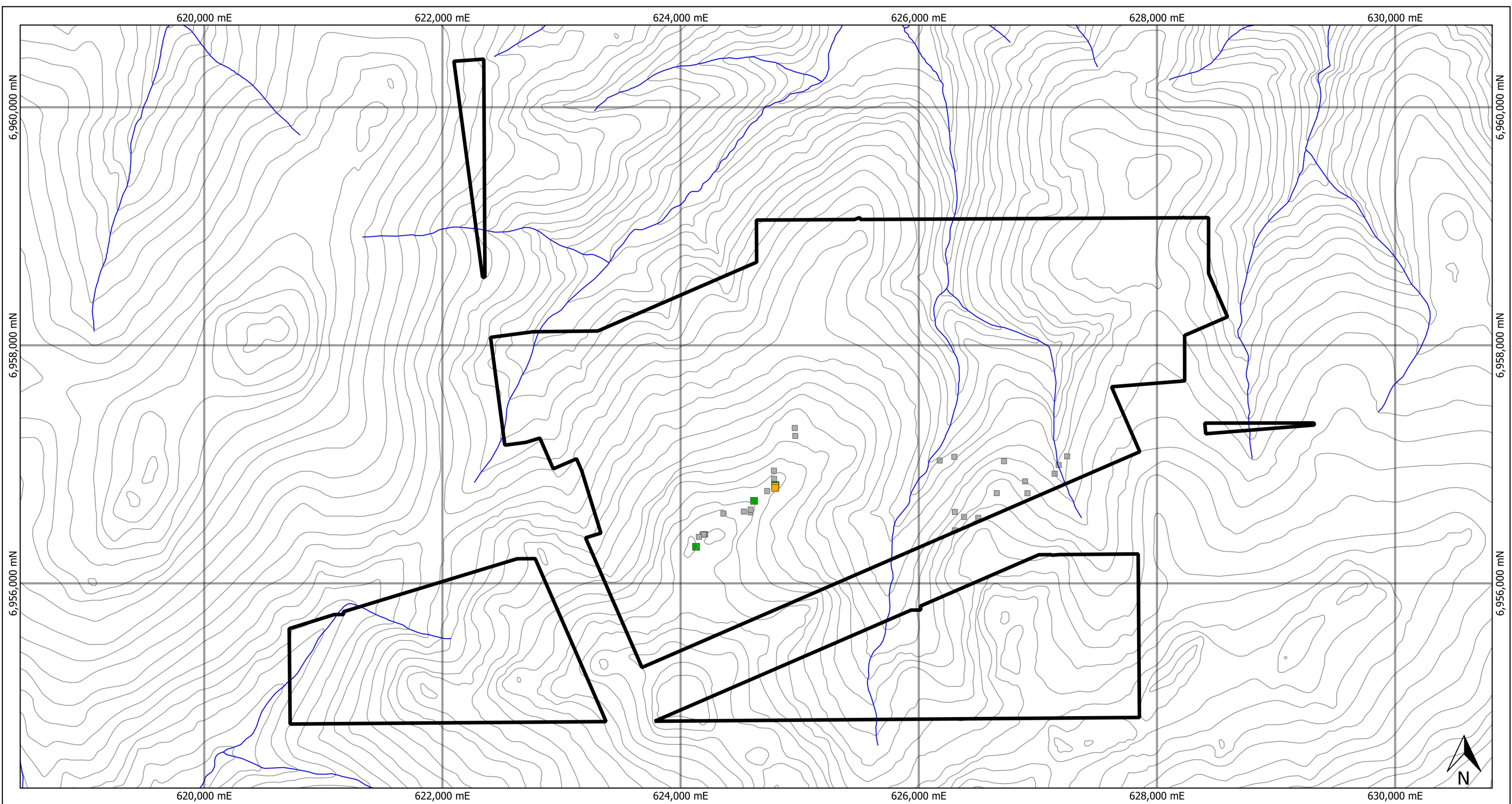
Labelled values are >0.5 g/t gold

Scale 1:30,000

Idaho Creek

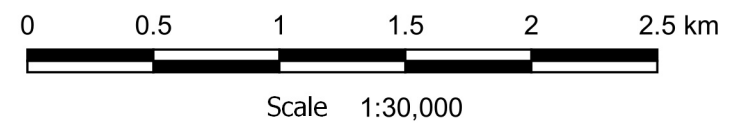
2020 Rock Sample Results - Gold

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	19	AS	1
C:\Users\aschn\OneDrive\Desktop\QGIS Workspaces\Idaho Creek Project\Idaho Creek.qgz				



Legend

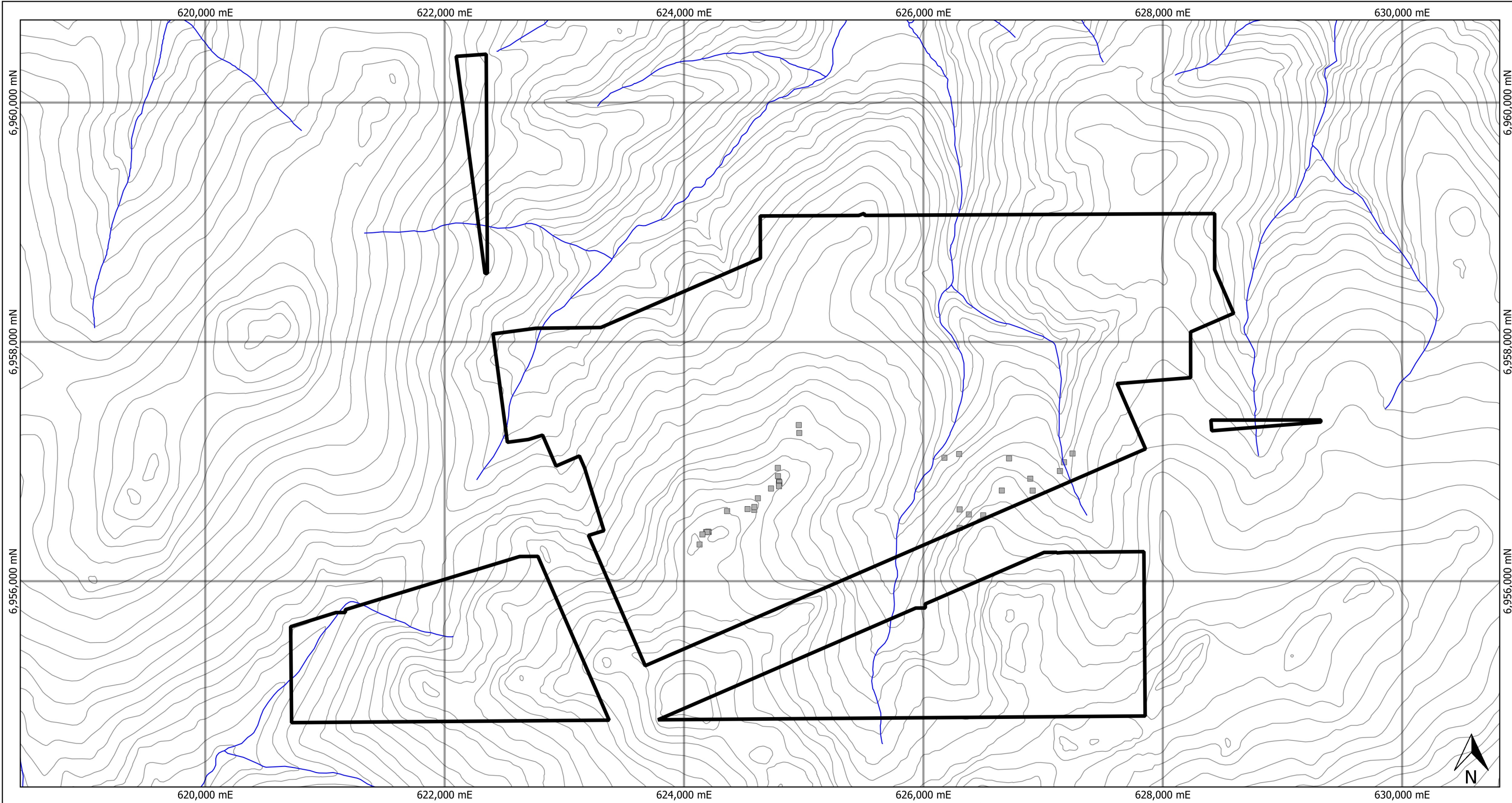
- Rock Samples (Ag - g/t)
- <10
- 10 - 50
- 50 - 100
- 100 - 500
- >500
- 100' Contours
- Watercourse



Idaho Creek
2020 Rock Sample Results - Silver

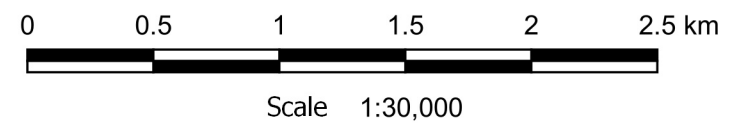
Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	20	AS	1

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Legend

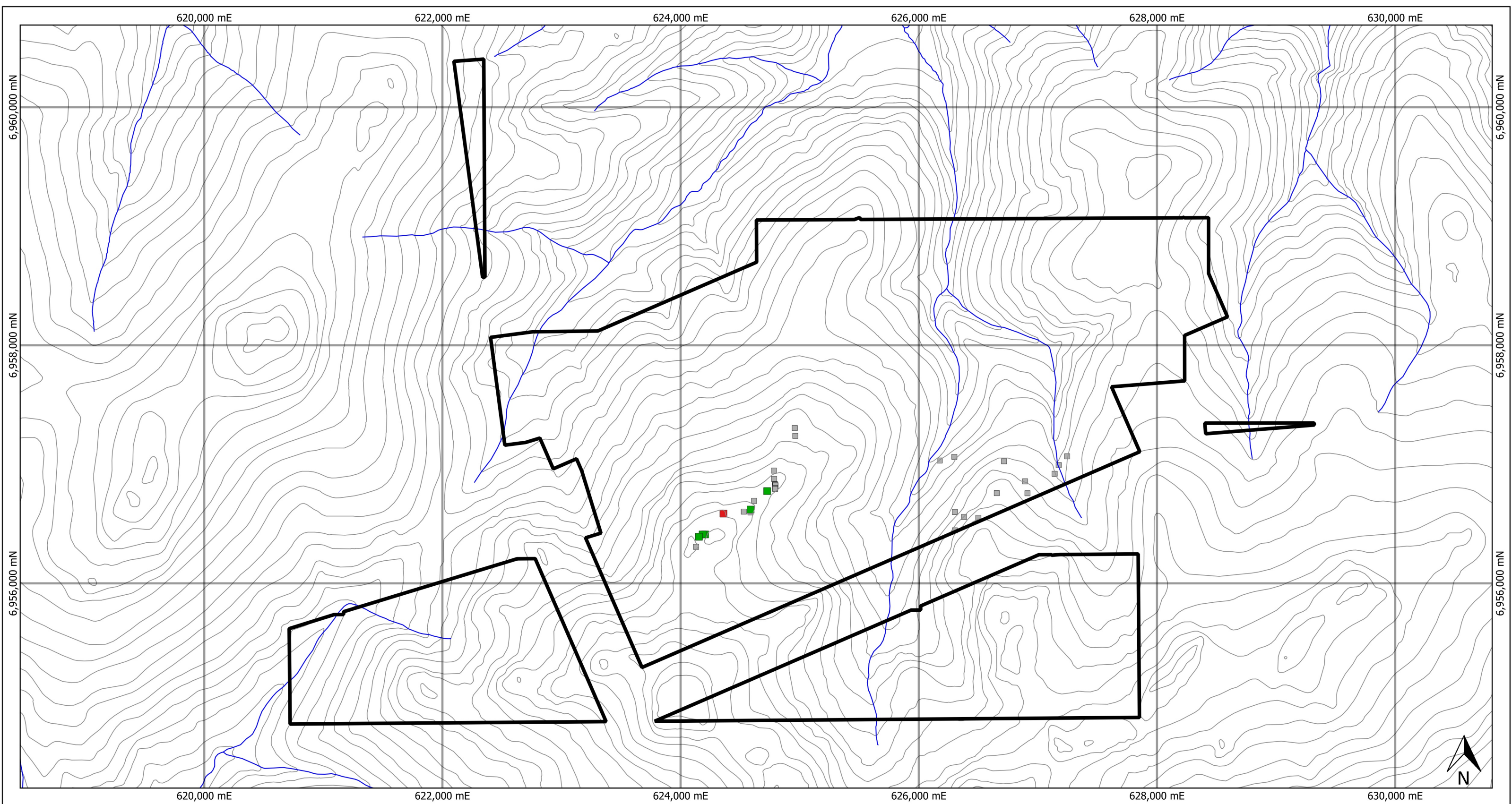
- Rock Samples (Cu -%)
- <0.05
- 0.05 - 0.10
- 0.10 - 0.50
- 0.50 - 1.00
- >1.00
- 100' Contours
- Watercourse



Idaho Creek
2020 Rock Sample Results - Copper

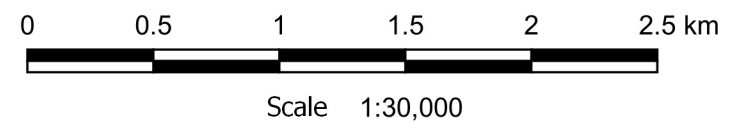
Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	21	AS	1

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Legend

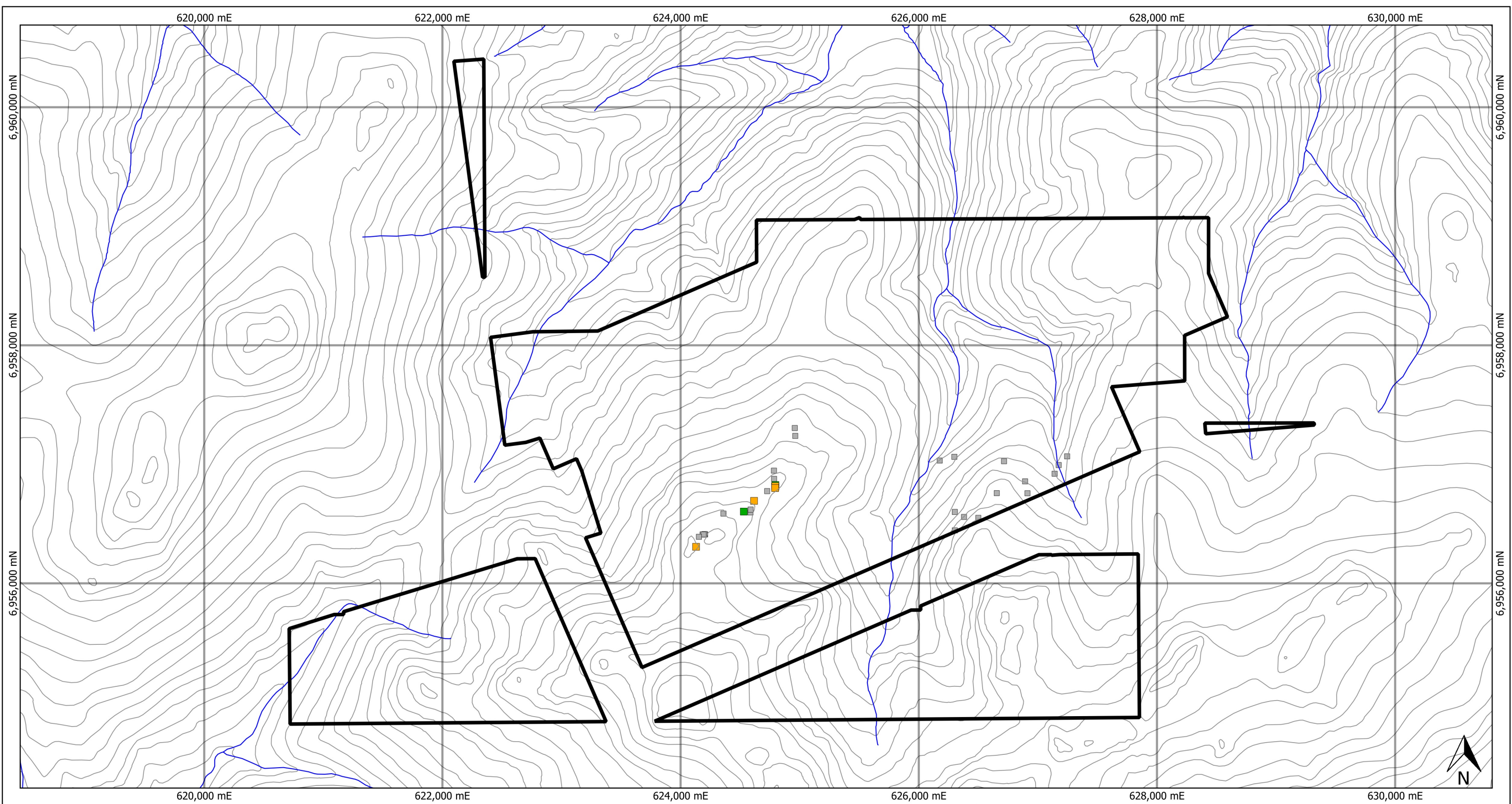
- Rock Samples (Mo - g/t)
- <10
- 10 - 50
- 50 - 100
- 100 - 200
- >200
- 100' Contours
- Watercourse



Idaho Creek
2020 Rock Sample Results - Molybdenum

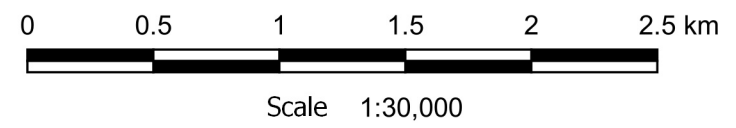
Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	22	AS	1

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Legend

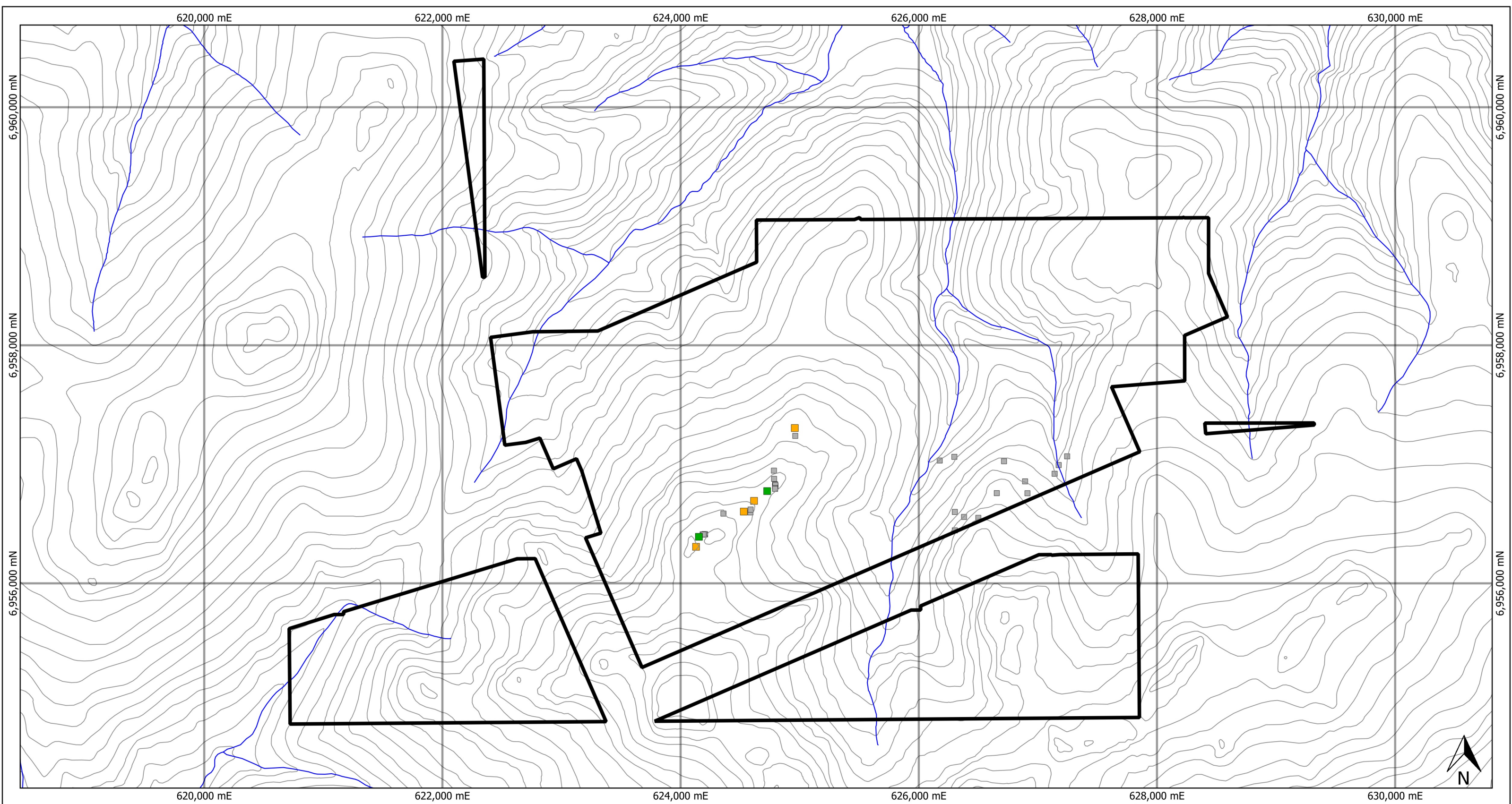
- Rock Samples (Pb - %)
 - <0.005
 - 0.05 - 0.10
 - 0.10 - 0.50
 - 0.50 - 1.00
 - >1.00
- 100' Contours
- Watercourse



Idaho Creek
2020 Rock Sample Results - Lead

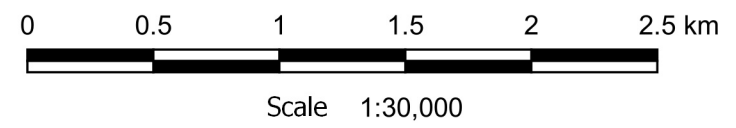
Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	23	AS	1

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Legend

- Rock Samples (Zn -%)
- <0.05
- 0.05 - 0.10
- 0.10 - 0.50
- 0.50 - 1.00
- >1.00
- 100' Contours
- Watercourse



Idaho Creek
2020 Rock Sample Results - Zinc

Coordinate System	Date	Fig. #	Author	Rev
UTM NAD 83 Zone 7N	January 2021	24	AS	1

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APPENDIX I

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Austin Schneebeili, geologist, with business address in Vancouver, British Columbia and residential address in Victoria, British Columbia, hereby certify that:

1. I graduated from the University of Victoria in 2020 with a B.Sc. in Earth Sciences.
2. From 2018 to present, I have been actively engaged in mineral exploration in Yukon Territory.
3. I am a Geoscientist-In-Training (G.I.T.) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 214745).
4. I have participated in the interpretation of data resulting from the fieldwork reported herein.

A handwritten signature in black ink, appearing to read 'Austin Schneebeili', written in a cursive style.

Austin Schneebeili, B.Sc., G.I.T.

APPENDIX II

STATEMENT OF EXPENDITURES




Statement of Expenditures
Idaho Creek Property

Expenses

Capital Helicopters, as attached
ALS Minerals, as attached

\$ 17,683.00
\$ 16,338.54
\$ 34,021.54



Elizabeth Smith
January 18, 2021

APPENDIX III

DIGITAL COPY OF SOIL SAMPLE DESCRIPTIONS

APPENDIX IV

SOIL SAMPLE CERTIFICATES OF ANALYSIS



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: ATAC RESOURCES LTD.
 C/O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Page: 1
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

CERTIFICATE WH20174527

Project: Idaho Creek

This report is for 249 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13-AUG-2020.

The following have access to data associated with this certificate:

ANDREW CARNE	ADAM COULTER
--------------	--------------

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
ME-MS41	Ultra Trace Aqua Regia ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

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



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: ATAC RESOURCES LTD.
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Page: 2 - A
 Total # Pages: 8 (A - D)
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 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
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	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY13451		0.46	0.015	0.20	2.59	27.0	<0.02	<10	250	0.43	0.31	0.29	0.34	28.5	13.2	36
YY13452		0.53	0.011	0.20	2.06	16.9	<0.02	<10	250	0.48	0.21	0.37	0.34	37.5	11.3	34
YY13453		0.58	0.006	0.15	2.18	16.3	<0.02	<10	210	0.48	0.22	0.32	0.31	33.1	12.3	33
YY13454		0.66	0.009	0.27	2.41	22.4	<0.02	<10	190	0.44	0.29	0.27	0.29	29.1	12.6	36
YY13455		0.46	0.006	0.20	2.07	15.8	<0.02	<10	260	0.49	0.23	0.36	0.31	40.5	12.2	34
YY13456		0.32	0.008	0.30	1.81	50.5	<0.02	<10	340	0.57	0.19	0.72	0.44	56.0	16.5	23
YY13457		0.50	0.005	0.14	2.55	11.6	<0.02	<10	400	0.48	0.17	0.46	0.14	31.0	16.3	35
YY13458		0.47	0.044	0.98	1.87	89.7	<0.02	<10	210	0.42	0.44	0.28	1.33	32.3	19.0	28
YY13459		0.41	0.021	1.24	1.76	52.8	0.02	<10	160	0.27	0.54	0.22	1.13	26.9	7.8	26
YY13460		0.35	0.027	1.74	2.01	57.0	0.02	<10	190	0.44	0.53	0.25	1.50	32.1	13.6	30
YY13461		0.53	0.022	1.44	2.31	87.1	<0.02	<10	220	0.53	0.57	0.28	1.98	34.9	13.8	33
YY13462		0.28	0.026	2.04	2.11	34.7	0.02	<10	210	0.40	0.48	0.29	1.19	28.2	10.1	33
YY13463		0.59	0.022	0.24	2.51	46.3	<0.02	<10	180	0.78	0.29	0.17	1.44	47.1	19.3	20
YY13464		0.39	0.010	0.35	2.12	52.0	<0.02	<10	140	0.42	0.42	0.13	0.74	20.7	10.2	29
YY13465		0.39	0.010	0.74	1.96	34.8	<0.02	<10	170	0.36	0.39	0.27	0.87	26.0	14.8	27
YY13466		0.55	0.009	0.33	2.15	32.1	<0.02	<10	170	0.66	0.83	0.19	0.61	39.6	10.8	25
YY13467		0.36	0.007	0.45	1.71	36.4	<0.02	<10	290	0.54	0.31	0.88	0.88	44.1	14.1	31
YY13468		0.42	0.006	0.42	1.76	33.1	<0.02	<10	260	0.47	0.32	0.64	0.60	39.3	14.5	32
YY13469		0.41	0.006	0.28	2.39	23.5	<0.02	<10	270	0.47	0.35	0.55	0.30	24.8	11.8	36
YY13470		0.48	0.006	0.12	1.73	29.3	<0.02	<10	180	0.47	0.23	0.29	0.46	30.3	13.9	32
YY13471		0.61	0.006	0.12	1.94	28.2	<0.02	<10	210	0.56	0.25	0.38	0.39	34.8	14.1	34
YY13472		0.42	0.005	0.14	1.82	17.6	<0.02	<10	200	0.58	0.19	0.31	0.68	37.7	11.3	29
YY13473		0.70	0.006	0.17	2.15	20.6	<0.02	<10	260	0.58	0.28	0.36	0.33	38.7	14.8	37
YY13474		0.59	0.005	0.24	2.24	29.1	<0.02	<10	280	0.70	0.30	0.34	0.43	55.8	14.2	35
YY13475		0.45	0.007	0.42	2.00	46.6	<0.02	<10	240	0.42	0.52	0.35	0.77	33.6	14.6	30
YY13476		0.43	0.027	0.47	1.97	72.1	<0.02	<10	290	0.45	0.53	0.49	0.78	32.2	15.5	32
YY13477		0.48	0.008	0.58	2.06	38.2	<0.02	<10	220	0.49	0.47	0.30	0.62	35.2	12.0	31
YY13478		0.56	0.012	0.34	1.76	61.7	<0.02	<10	220	0.48	0.33	0.33	0.94	34.6	10.9	28
YY13479		0.48	0.012	0.82	1.85	50.4	<0.02	<10	220	0.51	0.32	0.43	0.54	28.5	16.6	28
YY13480		0.32	0.021	1.43	2.00	67.9	<0.02	<10	220	0.45	0.43	0.38	0.83	32.4	12.9	32
YY13481		0.48	0.033	1.08	1.86	81.8	<0.02	<10	280	0.53	0.32	0.33	1.63	47.0	12.6	23
YY13482		0.49	0.019	1.57	1.95	71.2	0.04	<10	260	0.46	0.36	0.26	2.46	35.2	10.7	31
YY13483		0.52	0.023	2.11	2.25	81.5	<0.02	<10	320	0.86	0.41	0.26	4.99	61.4	13.1	36
YY13484		0.53	0.216	0.49	1.56	149.0	0.06	<10	170	0.41	0.32	0.30	2.11	34.7	27.8	31
YY13485		0.34	0.018	1.75	1.99	67.8	0.02	<10	190	0.42	0.40	0.26	1.95	29.6	10.1	32
YY13486		0.57	0.022	2.01	2.16	70.9	0.02	<10	220	0.51	0.46	0.29	2.30	33.1	12.5	37
YY13487		0.42	0.019	1.98	2.14	129.5	0.02	<10	240	0.54	0.55	0.27	3.77	32.5	12.5	37
YY13488		0.38	0.028	2.00	2.02	86.0	0.17	<10	200	0.43	0.65	0.24	1.60	27.1	11.5	32
YY13489		0.37	0.031	2.12	2.03	82.5	0.02	<10	200	0.45	0.64	0.28	1.64	34.0	16.7	34
YY13490		0.51	0.032	1.78	2.13	105.5	0.02	<10	240	0.57	0.70	0.39	2.13	36.7	22.9	38



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Page: 2 - B
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
YY13451		2.75	17.9	3.92	8.49	0.08	0.03	0.03	0.035	0.09	14.5	16.7	0.60	584	1.53	0.01
YY13452		2.11	21.1	3.10	6.47	0.09	0.03	0.05	0.030	0.10	20.0	13.9	0.63	517	0.89	0.01
YY13453		2.11	18.7	2.99	6.60	0.08	0.04	0.04	0.031	0.09	16.5	14.0	0.59	619	0.89	0.01
YY13454		2.77	16.7	3.45	7.72	0.07	0.03	0.05	0.034	0.09	15.3	14.5	0.60	480	1.18	0.01
YY13455		2.08	19.9	3.19	6.80	0.10	0.06	0.05	0.032	0.09	20.2	14.7	0.65	322	0.90	0.01
YY13456		2.82	19.0	3.92	6.32	0.11	0.04	0.09	0.040	0.13	31.8	14.1	0.70	1060	0.97	0.01
YY13457		2.44	23.1	3.93	8.56	0.10	0.07	0.04	0.034	0.19	16.4	18.8	1.01	505	0.52	0.01
YY13458		2.33	13.5	3.70	6.61	0.07	0.02	0.06	0.083	0.09	17.4	11.3	0.52	1380	4.92	0.01
YY13459		2.73	10.4	2.34	6.58	0.06	<0.02	0.11	0.077	0.07	15.3	10.5	0.43	578	3.33	0.01
YY13460		2.97	14.1	2.79	6.92	0.06	<0.02	0.10	0.092	0.08	17.8	12.5	0.47	765	3.47	0.01
YY13461		2.85	16.4	3.38	7.90	0.07	0.02	0.07	0.101	0.09	19.5	15.0	0.57	914	4.03	0.01
YY13462		2.98	13.4	2.33	6.87	0.06	<0.02	0.11	0.072	0.08	16.3	11.9	0.50	495	2.51	0.01
YY13463		4.29	13.5	3.88	8.27	0.07	0.08	0.04	0.078	0.21	17.6	16.2	0.71	2190	1.36	0.01
YY13464		2.52	15.3	3.44	8.11	<0.05	0.03	0.04	0.061	0.08	10.1	14.6	0.40	955	3.87	0.02
YY13465		3.36	11.7	2.68	6.91	<0.05	<0.02	0.06	0.061	0.10	13.5	12.1	0.52	839	2.59	0.02
YY13466		3.25	13.9	3.19	8.46	<0.05	0.05	0.04	0.052	0.11	15.9	15.8	0.50	957	2.32	0.02
YY13467		3.29	19.5	2.90	5.71	0.07	0.02	0.08	0.033	0.09	26.8	14.4	0.57	1260	1.56	0.03
YY13468		3.32	15.3	2.89	6.09	0.05	0.02	0.06	0.035	0.09	21.5	14.5	0.59	929	1.38	0.03
YY13469		2.14	19.5	3.13	6.76	<0.05	0.02	0.06	0.033	0.09	13.2	16.8	0.65	428	1.07	0.02
YY13470		2.14	19.7	2.96	5.61	0.06	0.06	0.03	0.027	0.11	14.4	13.6	0.57	719	1.09	0.02
YY13471		2.38	23.7	3.12	5.68	0.06	0.05	0.03	0.028	0.12	17.2	13.6	0.61	677	1.06	0.03
YY13472		1.68	22.9	2.60	5.69	0.05	0.02	0.04	0.024	0.07	18.7	10.6	0.44	777	1.07	0.02
YY13473		2.16	24.4	3.23	6.80	0.06	0.02	0.04	0.031	0.09	18.6	17.2	0.63	727	1.12	0.02
YY13474		2.87	25.4	3.23	7.02	0.06	0.02	0.04	0.032	0.08	32.6	15.7	0.55	745	1.27	0.02
YY13475		3.56	12.4	3.22	7.52	<0.05	0.02	0.07	0.056	0.10	18.1	13.4	0.62	977	1.65	0.02
YY13476		3.16	13.3	3.25	7.25	0.05	0.02	0.10	0.051	0.10	17.9	13.4	0.62	1060	2.38	0.02
YY13477		3.27	15.2	2.97	7.07	<0.05	0.02	0.09	0.052	0.08	19.7	13.8	0.57	638	1.95	0.02
YY13478		2.98	14.5	3.16	6.51	0.05	0.02	0.04	0.049	0.10	19.3	13.0	0.58	689	6.00	0.02
YY13479		3.33	14.4	3.15	6.88	0.05	0.02	0.08	0.070	0.08	14.7	12.0	0.54	1460	5.25	0.02
YY13480		3.76	12.2	3.02	6.88	<0.05	<0.02	0.11	0.096	0.07	18.1	12.6	0.52	814	3.46	0.02
YY13481		3.17	11.9	3.23	6.58	0.05	0.03	0.09	0.053	0.13	25.1	12.8	0.49	1850	2.60	0.02
YY13482		1.94	18.2	2.73	6.50	<0.05	<0.02	0.10	0.077	0.07	19.2	13.6	0.45	669	3.18	0.02
YY13483		2.20	33.5	2.74	6.85	0.05	<0.02	0.11	0.098	0.08	32.7	12.2	0.43	886	4.37	0.02
YY13484		1.50	15.7	3.86	5.91	0.05	0.03	0.04	0.069	0.07	16.3	10.1	0.49	3100	7.72	0.02
YY13485		2.08	14.5	2.54	6.38	<0.05	<0.02	0.10	0.101	0.07	15.7	12.5	0.48	433	3.02	0.02
YY13486		2.34	16.3	2.70	6.81	<0.05	0.02	0.13	0.117	0.09	17.6	14.1	0.55	566	3.51	0.02
YY13487		2.63	15.8	3.36	7.77	<0.05	<0.02	0.11	0.118	0.08	17.7	13.1	0.47	936	5.86	0.02
YY13488		3.21	13.6	2.90	7.21	<0.05	<0.02	0.13	0.105	0.08	14.8	12.3	0.44	738	6.05	0.02
YY13489		3.07	14.7	2.96	6.71	<0.05	<0.02	0.12	0.117	0.09	18.0	12.4	0.49	1140	5.56	0.02
YY13490		3.24	15.9	3.60	6.86	<0.05	0.02	0.08	0.134	0.11	18.3	13.2	0.56	1820	5.54	0.02

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Page: 2 - C
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	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
YY13451		1.64	23.2	650	18.9	17.1	<0.001	0.02	1.65	4.8	0.5	0.7	25.1	<0.01	0.04	3.6
YY13452		1.45	20.1	690	13.9	17.2	<0.001	0.02	1.32	6.0	0.4	0.6	26.3	<0.01	0.03	4.7
YY13453		1.42	20.1	660	13.2	16.8	<0.001	0.01	1.30	4.9	0.2	0.6	23.9	<0.01	0.03	4.2
YY13454		1.65	19.2	680	18.6	19.7	<0.001	0.02	1.60	4.9	0.3	0.7	19.3	<0.01	0.03	4.3
YY13455		1.55	20.2	720	13.1	18.1	<0.001	0.01	1.32	7.9	0.3	0.7	26.1	<0.01	0.03	7.7
YY13456		1.40	13.3	810	13.6	27.4	<0.001	0.04	1.76	10.2	0.2	0.7	55.4	<0.01	0.02	6.4
YY13457		2.06	16.9	770	9.3	30.6	<0.001	0.02	0.83	8.6	0.3	0.8	28.3	<0.01	0.02	8.3
YY13458		1.28	15.4	800	60.6	18.4	<0.001	0.03	4.35	4.3	0.5	0.7	21.3	<0.01	0.03	3.9
YY13459		0.95	12.6	590	56.5	16.6	<0.001	0.03	3.05	3.1	0.3	0.7	17.6	<0.01	0.01	1.2
YY13460		1.07	15.1	600	61.8	19.2	<0.001	0.03	3.75	4.2	0.4	0.7	21.5	<0.01	0.03	2.3
YY13461		1.38	18.4	550	77.4	21.2	<0.001	0.02	5.07	5.1	0.4	0.8	23.8	<0.01	0.03	5.9
YY13462		0.87	15.4	620	45.4	17.7	<0.001	0.04	3.61	4.1	0.4	0.7	24.5	<0.01	0.01	1.3
YY13463		1.82	10.3	630	33.4	38.3	<0.001	0.01	2.92	7.6	0.2	1.3	9.7	<0.01	0.01	20.8
YY13464		1.76	13.8	370	42.5	24.0	<0.001	0.01	3.49	4.5	0.3	0.9	13.1	<0.01	0.05	4.5
YY13465		1.32	13.6	610	40.6	22.4	<0.001	0.02	2.79	5.7	0.3	0.8	20.5	<0.01	0.02	4.2
YY13466		1.62	11.9	370	33.1	23.5	<0.001	0.01	2.13	6.6	<0.2	1.1	14.5	<0.01	0.04	14.2
YY13467		1.16	19.6	850	29.6	22.2	<0.001	0.06	3.34	5.8	0.6	0.6	61.8	<0.01	0.04	2.3
YY13468		1.15	19.4	800	32.5	21.6	<0.001	0.04	2.82	6.0	0.3	0.6	45.2	<0.01	0.04	3.0
YY13469		1.23	22.7	730	19.9	14.1	<0.001	0.02	1.64	5.6	0.3	0.6	42.5	<0.01	0.04	3.6
YY13470		1.40	21.2	730	20.3	15.9	<0.001	<0.01	2.34	5.2	0.4	0.5	17.9	<0.01	0.04	6.0
YY13471		1.39	22.5	800	21.0	18.6	<0.001	0.01	2.28	6.0	0.4	0.5	24.0	<0.01	0.03	6.2
YY13472		1.28	17.4	680	17.1	14.0	<0.001	0.01	1.35	4.3	0.4	0.5	23.4	<0.01	0.03	2.6
YY13473		1.32	24.2	700	16.2	16.6	<0.001	0.01	1.56	7.0	0.2	0.6	28.2	<0.01	0.03	4.0
YY13474		1.14	23.1	670	24.3	17.5	<0.001	0.01	2.27	6.0	<0.2	0.6	26.6	<0.01	0.04	2.3
YY13475		1.34	17.4	710	49.0	21.4	<0.001	0.03	3.27	5.9	0.2	0.8	26.2	<0.01	0.03	4.4
YY13476		1.50	17.5	760	46.5	22.7	<0.001	0.03	3.68	6.3	0.4	0.9	34.4	<0.01	0.04	6.4
YY13477		1.44	17.0	580	42.5	19.3	<0.001	0.02	2.45	6.5	0.3	0.8	23.2	<0.01	0.02	5.7
YY13478		1.55	15.8	620	36.1	22.1	<0.001	0.02	9.29	5.6	<0.2	0.8	24.6	<0.01	0.03	5.7
YY13479		1.29	13.6	720	54.4	18.6	<0.001	0.02	3.24	5.4	0.4	0.8	29.3	<0.01	0.03	4.8
YY13480		1.25	15.9	710	70.8	18.8	<0.001	0.03	3.52	5.9	0.3	0.8	27.7	<0.01	0.03	3.2
YY13481		1.57	12.2	630	64.7	29.4	<0.001	0.03	6.04	5.8	0.3	0.8	25.0	<0.01	0.02	7.7
YY13482		1.06	18.3	730	73.2	15.5	<0.001	0.03	3.89	5.5	0.4	0.7	22.1	<0.01	0.03	2.8
YY13483		0.87	18.9	820	103.0	17.0	<0.001	0.05	5.52	6.3	0.8	0.8	23.9	<0.01	0.03	2.0
YY13484		1.32	17.2	830	114.5	13.3	<0.001	0.02	6.46	4.4	0.2	0.6	21.9	<0.01	0.04	6.8
YY13485		1.08	16.3	540	108.5	13.6	<0.001	0.02	5.37	4.8	0.5	0.7	19.3	<0.01	0.02	3.5
YY13486		1.23	19.7	590	112.5	17.7	<0.001	0.02	5.07	5.8	0.4	0.8	22.6	<0.01	0.03	5.8
YY13487		0.98	16.2	840	102.5	16.3	<0.001	0.04	5.04	4.2	0.4	0.8	22.4	<0.01	0.05	1.8
YY13488		0.94	14.3	760	77.9	21.7	<0.001	0.04	5.04	3.6	0.5	0.7	19.6	<0.01	0.03	1.4
YY13489		1.08	16.8	750	104.5	19.1	<0.001	0.03	5.93	5.4	0.6	0.7	23.2	<0.01	0.03	2.9
YY13490		1.26	22.1	690	109.0	21.9	<0.001	0.02	7.65	6.2	0.3	0.8	28.9	<0.01	0.04	6.3



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Page: 2 - D
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
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CERTIFICATE OF ANALYSIS WH20174527

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13451		0.107	0.24	1.36	88	0.54	6.15	87	1.2
YY13452		0.123	0.20	2.36	71	0.33	8.96	75	1.6
YY13453		0.117	0.20	1.83	67	0.33	7.43	76	1.4
YY13454		0.132	0.24	3.42	81	0.36	6.03	83	1.4
YY13455		0.137	0.24	8.15	76	0.28	10.45	79	2.3
YY13456		0.091	0.30	6.83	82	0.20	22.5	85	1.3
YY13457		0.220	0.31	1.77	108	0.42	8.47	76	2.8
YY13458		0.080	0.23	2.80	74	0.67	6.58	222	0.7
YY13459		0.051	0.26	2.66	49	0.26	4.26	197	<0.5
YY13460		0.055	0.26	4.25	57	0.26	5.99	232	<0.5
YY13461		0.071	0.28	4.20	72	0.30	6.97	262	0.8
YY13462		0.052	0.28	4.63	47	0.30	5.74	201	<0.5
YY13463		0.090	0.45	2.97	81	0.36	9.92	141	3.3
YY13464		0.078	0.25	1.14	81	0.32	3.16	118	1.2
YY13465		0.073	0.30	2.56	61	0.33	5.85	152	0.5
YY13466		0.059	0.30	2.44	72	0.42	6.97	106	2.2
YY13467		0.071	0.32	4.02	65	0.50	17.05	110	0.8
YY13468		0.074	0.30	2.95	64	1.41	12.30	115	0.8
YY13469		0.099	0.22	2.23	71	0.32	6.27	79	1.0
YY13470		0.116	0.24	1.33	67	0.53	6.60	80	2.8
YY13471		0.130	0.27	1.68	72	0.46	7.86	79	2.6
YY13472		0.103	0.17	1.82	61	0.32	7.38	61	1.0
YY13473		0.112	0.23	2.35	74	0.95	10.00	82	1.0
YY13474		0.086	0.22	3.95	73	0.50	18.30	89	0.5
YY13475		0.081	0.32	3.48	77	0.27	7.19	157	0.8
YY13476		0.091	0.31	3.11	74	0.36	8.28	155	1.0
YY13477		0.074	0.32	4.20	62	0.36	7.48	140	0.8
YY13478		0.098	0.25	2.46	68	0.42	7.94	157	1.1
YY13479		0.080	0.31	2.31	73	0.31	6.42	120	0.8
YY13480		0.060	0.38	2.85	72	0.27	8.09	176	0.5
YY13481		0.068	0.36	3.16	65	0.31	9.15	212	1.0
YY13482		0.058	0.21	5.29	54	0.92	9.00	265	0.6
YY13483		0.051	0.25	8.86	55	0.39	14.80	303	<0.5
YY13484		0.096	0.19	1.82	81	4.01	6.98	232	1.3
YY13485		0.064	0.26	2.84	58	0.31	6.09	291	0.5
YY13486		0.073	0.27	3.32	56	0.33	7.31	364	0.8
YY13487		0.054	0.31	3.36	86	0.38	6.68	281	<0.5
YY13488		0.050	0.29	2.87	67	0.45	4.85	245	<0.5
YY13489		0.062	0.36	3.77	69	0.41	6.69	267	0.5
YY13490		0.070	0.35	3.71	73	0.35	7.72	322	0.8



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Page: 3 - A
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
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	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY13491		0.49	0.020	1.45	1.90	50.3	<0.02	<10	170	0.39	0.53	0.30	1.18	25.2	12.4	31
YY13492		0.49	0.011	0.46	1.84	68.2	<0.02	<10	190	0.39	0.44	0.31	0.96	28.2	17.1	30
YY13493		0.43	0.024	1.39	1.84	55.6	<0.02	<10	190	0.44	0.39	0.41	0.90	34.7	14.6	30
YY13494		0.40	0.007	0.26	2.04	14.4	<0.02	<10	450	0.47	0.21	0.61	0.52	42.4	11.2	27
YY13495		0.38	0.003	0.14	1.83	14.1	<0.02	<10	430	0.41	0.19	0.68	1.01	28.1	12.4	27
YY13496		0.41	0.005	0.18	2.34	13.1	<0.02	<10	590	0.62	0.17	0.72	0.42	47.7	13.6	29
YY13497		0.47	0.005	0.23	2.30	17.3	<0.02	<10	490	0.66	0.20	0.58	0.33	38.6	14.0	30
YY13498		0.48	0.007	0.27	1.94	9.5	<0.02	<10	240	0.71	0.53	0.43	0.29	50.7	10.5	44
YY13499		0.54	0.007	0.16	1.80	22.8	<0.02	<10	170	0.59	0.33	0.38	0.15	43.8	11.7	55
YY13500		0.42	0.008	0.12	1.92	24.1	<0.02	<10	300	0.65	0.30	0.56	0.17	44.5	16.1	39
YY17901		0.51	0.006	0.11	1.80	10.5	<0.02	<10	320	0.45	0.16	0.56	0.20	33.4	13.7	29
YY17902		0.36	0.005	0.13	2.09	13.3	<0.02	<10	310	0.52	0.16	0.52	0.28	42.0	12.5	30
YY17903		0.25	0.006	0.25	2.25	32.3	<0.02	<10	350	0.63	0.23	0.92	0.51	46.7	15.0	32
YY17904		0.57	0.007	0.09	2.10	8.2	<0.02	<10	310	0.58	0.14	0.40	0.24	59.9	14.4	29
YY17905		0.43	0.005	0.23	1.64	9.1	<0.02	<10	310	0.67	0.45	0.82	0.70	78.7	10.1	19
YY17906		0.54	0.008	0.12	1.88	42.6	0.02	<10	190	0.52	0.25	0.36	0.13	33.9	11.2	23
YY17907		0.40	0.006	0.17	1.97	68.1	<0.02	<10	260	0.54	0.29	0.42	0.27	32.6	8.2	28
YY17908		0.45	0.007	0.17	1.97	39.2	<0.02	<10	260	0.51	0.20	0.58	0.21	41.7	11.8	31
YY17909		0.50	0.006	0.06	1.87	9.9	<0.02	<10	260	0.38	0.13	0.43	0.15	27.4	11.1	27
YY17910		0.53	0.003	0.07	1.95	13.2	<0.02	<10	250	0.34	0.13	0.37	0.15	23.9	10.6	29
YY17911		0.46	0.004	0.11	1.83	17.3	<0.02	<10	210	0.35	0.21	0.30	0.24	22.8	8.0	29
YY17912		0.50	0.007	0.14	1.59	25.3	<0.02	<10	290	0.35	0.19	0.40	0.20	28.7	8.3	27
YY17913		0.27	0.009	1.99	2.05	16.8	<0.02	<10	420	0.54	0.18	1.11	0.94	49.4	7.0	30
YY17914		0.33	0.005	0.33	1.99	29.7	<0.02	<10	450	0.56	0.22	0.71	0.78	67.9	14.1	30
YY17915		0.50	0.004	0.15	1.77	63.3	<0.02	<10	240	0.44	0.34	0.40	0.22	34.4	8.6	30
YY17916		0.47	0.011	0.17	1.86	58.5	<0.02	<10	320	0.51	0.45	0.59	0.22	46.5	11.0	32
YY17917		0.50	0.007	0.28	2.15	52.7	<0.02	<10	340	0.61	0.46	0.58	0.25	55.1	23.9	33
YY17918		0.56	0.005	0.23	1.89	24.2	<0.02	<10	370	0.57	0.45	0.70	0.34	34.4	12.6	30
YY17919		0.44	0.006	0.08	2.07	11.6	<0.02	<10	120	0.50	0.28	0.26	0.22	46.6	9.9	31
YY17920		0.49	0.022	3.95	2.42	67.6	<0.02	<10	400	0.68	0.20	0.67	1.32	35.6	9.0	35
YY17921		0.53	0.033	3.50	2.18	112.0	0.02	<10	350	0.62	0.32	0.52	2.09	35.6	10.4	35
YY17922		0.47	0.106	7.14	2.51	435	0.07	<10	380	0.71	0.28	0.59	4.92	34.0	10.9	37
YY17923		0.41	0.013	1.03	1.44	57.6	<0.02	<10	190	0.26	0.23	0.24	2.87	26.2	6.6	25
YY17924		0.40	0.007	1.07	2.67	27.7	<0.02	<10	240	0.43	0.20	0.18	2.90	18.10	11.4	32
YY17925		0.45	0.006	0.76	1.94	45.7	<0.02	<10	170	0.32	0.22	0.33	1.05	21.6	6.4	30
YY17926		0.52	0.018	1.70	1.94	52.6	<0.02	<10	350	0.68	0.16	0.65	1.01	38.9	12.0	33
YY17927		0.48	0.025	1.15	1.79	219	0.02	<10	170	0.48	0.18	0.30	1.46	29.9	9.2	30
YY17928		0.45	0.006	0.23	1.59	20.6	<0.02	<10	140	0.25	0.20	0.22	2.27	15.10	7.2	28
YY17929		0.58	0.054	2.40	1.91	271	0.03	<10	160	0.69	0.19	0.23	2.25	34.9	10.0	31
YY17930		0.49	0.010	0.31	1.90	203	<0.02	<10	140	0.67	0.19	0.11	0.44	48.4	11.5	26



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Page: 3 - B
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	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
YY13491		3.40	11.4	2.79	7.07	<0.05	<0.02	0.08	0.083	0.09	13.1	13.8	0.52	1780	3.85	0.02
YY13492		3.30	11.8	3.46	7.09	<0.05	<0.02	0.03	0.069	0.09	15.0	11.8	0.57	1310	4.43	0.02
YY13493		3.36	12.0	2.70	6.30	<0.05	<0.02	0.10	0.113	0.07	17.7	11.4	0.48	663	2.80	0.02
YY13494		3.05	18.3	3.15	7.15	0.06	0.02	0.08	0.027	0.09	24.1	14.3	0.53	587	1.52	0.03
YY13495		3.00	18.1	3.03	6.46	<0.05	0.02	0.04	0.027	0.09	15.7	12.7	0.57	823	1.85	0.02
YY13496		4.34	23.0	3.33	7.12	0.06	0.02	0.07	0.035	0.09	26.3	14.3	0.61	898	1.82	0.03
YY13497		4.73	19.8	3.44	6.85	0.06	0.02	0.08	0.034	0.07	23.6	18.0	0.66	859	1.81	0.02
YY13498		4.72	21.8	2.08	6.37	0.07	0.02	0.11	0.036	0.09	29.9	14.5	0.61	322	1.46	0.02
YY13499		3.78	23.2	2.79	5.97	0.07	0.03	0.07	0.032	0.10	24.3	14.1	0.70	367	1.37	0.02
YY13500		6.30	20.5	3.62	6.76	0.07	0.02	0.08	0.035	0.10	25.4	13.8	0.66	1000	1.86	0.02
YY17901		2.33	19.5	3.11	6.34	0.05	0.03	0.07	0.033	0.07	17.1	13.1	0.63	1160	2.26	0.02
YY17902		2.96	21.6	3.23	7.17	0.07	0.03	0.11	0.036	0.10	23.3	15.3	0.70	532	2.42	0.02
YY17903		2.94	28.5	3.48	7.22	0.07	0.03	0.15	0.038	0.09	27.8	15.9	0.72	1060	5.68	0.03
YY17904		4.31	22.7	3.78	7.46	0.09	0.04	0.06	0.037	0.11	30.2	18.8	0.76	1120	1.41	0.02
YY17905		4.99	20.4	3.15	5.62	0.10	0.03	0.06	0.034	0.10	53.2	9.4	0.44	1030	3.07	0.02
YY17906		5.87	14.5	3.94	6.57	0.05	0.02	0.06	0.037	0.13	19.4	13.4	0.58	537	2.65	0.02
YY17907		5.18	16.5	3.41	7.89	0.06	0.02	0.07	0.037	0.06	21.1	15.3	0.48	511	2.41	0.02
YY17908		3.34	19.2	3.17	6.81	0.08	0.05	0.05	0.033	0.13	26.4	15.3	0.65	532	1.84	0.02
YY17909		2.11	14.1	2.92	6.74	0.05	0.02	0.02	0.026	0.07	13.4	13.7	0.57	651	1.24	0.02
YY17910		1.68	14.3	2.96	7.11	0.05	0.02	0.03	0.023	0.08	12.3	12.4	0.56	634	1.11	0.02
YY17911		2.41	16.2	2.94	7.30	0.05	<0.02	0.03	0.024	0.08	11.9	11.3	0.55	556	1.90	0.02
YY17912		3.03	15.6	2.88	6.13	0.05	0.02	0.03	0.023	0.09	15.9	9.4	0.49	699	5.68	0.02
YY17913		3.10	24.4	2.21	6.32	0.08	0.04	0.12	0.025	0.07	41.6	9.2	0.42	635	2.47	0.02
YY17914		3.51	18.3	2.82	6.83	0.06	0.02	0.08	0.030	0.11	34.1	11.5	0.53	2720	2.13	0.02
YY17915		3.92	17.0	3.00	7.52	0.05	0.02	0.03	0.030	0.09	19.6	12.7	0.55	535	1.44	0.02
YY17916		3.95	19.3	3.18	7.03	0.07	0.03	0.06	0.030	0.09	31.5	14.4	0.58	820	2.46	0.02
YY17917		6.21	18.5	4.34	6.92	0.06	0.02	0.11	0.041	0.11	30.2	13.4	0.60	2490	2.92	0.02
YY17918		6.51	18.4	3.46	6.85	0.05	0.03	0.06	0.033	0.11	18.5	16.4	0.66	795	2.37	0.02
YY17919		2.48	23.3	3.46	7.01	0.06	0.04	0.05	0.030	0.07	21.1	17.2	0.60	476	1.46	0.02
YY17920		4.08	27.8	3.00	6.93	0.07	0.03	0.12	0.030	0.09	25.6	11.7	0.54	821	4.32	0.02
YY17921		4.46	24.3	3.16	6.40	0.06	0.04	0.14	0.031	0.09	22.5	11.8	0.55	1340	4.76	0.02
YY17922		6.27	24.7	3.67	7.11	0.06	0.05	0.10	0.070	0.12	23.0	12.0	0.60	1160	1.93	0.02
YY17923		2.53	20.1	2.44	7.51	<0.05	0.02	0.02	0.024	0.08	16.9	7.4	0.35	509	3.68	0.02
YY17924		2.22	14.8	2.99	8.18	<0.05	0.03	0.04	0.034	0.05	9.5	14.9	0.39	584	2.00	0.02
YY17925		2.20	12.3	3.26	8.49	<0.05	0.03	0.04	0.027	0.08	12.0	16.5	0.51	353	1.99	0.02
YY17926		3.48	21.1	2.92	6.04	0.05	0.08	0.10	0.030	0.08	21.2	10.7	0.62	1590	1.02	0.03
YY17927		3.89	17.3	3.14	5.82	<0.05	0.06	0.06	0.027	0.08	15.0	11.3	0.52	735	1.44	0.01
YY17928		1.34	13.1	3.57	9.00	<0.05	0.04	0.04	0.024	0.06	7.5	10.9	0.37	325	1.94	<0.01
YY17929		3.64	18.0	3.67	6.34	<0.05	0.03	0.08	0.033	0.07	19.0	12.1	0.44	1460	2.31	<0.01
YY17930		3.68	15.2	3.60	5.78	<0.05	0.02	0.04	0.031	0.12	25.6	9.4	0.33	1460	1.51	<0.01



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Page: 3 - C
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

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CERTIFICATE OF ANALYSIS WH20174527

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	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
YY13491		1.02	15.3	560	57.5	22.2	<0.001	0.02	4.61	4.3	0.3	0.8	24.0	<0.01	0.02	3.1
YY13492		1.34	16.2	770	52.9	19.7	<0.001	0.02	4.25	5.1	0.3	0.8	22.1	<0.01	0.04	3.7
YY13493		1.12	15.2	610	67.9	17.5	<0.001	0.03	3.74	5.7	0.2	0.7	28.3	<0.01	0.01	2.8
YY13494		1.64	17.1	920	19.8	24.6	<0.001	0.07	1.42	5.7	0.3	0.7	46.6	<0.01	0.04	1.8
YY13495		1.37	16.7	870	25.9	26.0	<0.001	0.06	1.58	5.6	0.2	0.6	50.2	<0.01	0.03	1.8
YY13496		1.22	18.3	1150	12.7	24.6	<0.001	0.08	1.72	6.7	0.3	0.6	49.9	<0.01	0.02	1.6
YY13497		0.98	18.4	970	12.6	17.5	<0.001	0.05	1.98	6.3	0.2	0.6	41.4	<0.01	0.02	1.9
YY13498		1.12	23.9	690	26.4	20.6	<0.001	0.04	3.39	7.0	0.2	0.7	28.1	<0.01	0.02	5.5
YY13499		1.00	27.0	790	15.3	18.5	0.001	0.03	2.60	6.5	0.3	0.6	21.7	<0.01	0.03	5.6
YY13500		0.91	23.6	1000	13.4	22.1	0.001	0.06	1.78	7.0	0.4	0.7	28.2	<0.01	0.04	2.8
YY17901		1.32	16.7	940	10.6	13.5	0.001	0.07	0.80	5.3	0.4	0.6	36.7	<0.01	0.02	2.2
YY17902		1.61	18.4	880	10.4	19.3	0.001	0.06	0.97	7.5	0.2	0.7	32.8	<0.01	0.02	3.6
YY17903		1.36	22.7	1000	16.0	17.3	0.001	0.11	1.46	7.8	0.6	0.7	88.7	<0.01	0.02	2.6
YY17904		1.51	20.6	800	9.6	17.3	0.001	0.02	0.56	10.0	0.3	0.8	24.6	<0.01	0.02	8.0
YY17905		1.08	11.6	980	18.6	19.1	0.001	0.10	0.84	5.1	0.4	0.6	55.6	<0.01	0.03	2.9
YY17906		1.22	12.4	500	19.8	24.1	<0.001	0.03	1.24	5.7	0.2	0.7	23.5	<0.01	0.03	5.3
YY17907		1.29	14.8	640	26.9	16.3	0.001	0.04	1.00	4.4	0.4	0.8	33.2	<0.01	0.04	2.5
YY17908		1.53	19.2	870	20.6	22.5	0.001	0.03	1.40	7.6	0.2	0.7	33.9	<0.01	0.02	7.8
YY17909		1.22	15.3	770	9.8	14.8	0.001	0.03	0.79	3.6	<0.2	0.7	33.0	<0.01	0.02	2.2
YY17910		1.23	15.7	880	9.5	14.6	<0.001	0.04	1.00	3.1	0.2	0.6	26.5	<0.01	0.02	1.7
YY17911		1.22	15.1	690	14.8	17.5	0.001	0.04	1.61	3.0	<0.2	0.8	23.8	<0.01	0.03	1.3
YY17912		1.43	12.7	460	13.6	20.3	<0.001	0.03	1.99	3.7	<0.2	0.7	30.6	<0.01	0.03	4.3
YY17913		1.29	17.0	1070	22.0	15.3	0.001	0.14	1.47	4.6	0.4	0.6	80.3	<0.01	0.03	1.5
YY17914		1.01	16.9	1120	18.9	20.7	<0.001	0.09	1.15	4.6	0.6	0.6	50.7	<0.01	0.03	2.4
YY17915		1.35	17.7	590	18.3	20.7	<0.001	0.03	1.34	4.1	<0.2	0.8	30.0	<0.01	0.05	3.9
YY17916		1.61	20.5	820	16.2	19.3	0.001	0.06	1.21	5.1	0.4	0.9	37.7	<0.01	0.04	4.6
YY17917		1.30	19.4	870	25.8	21.4	<0.001	0.06	1.57	5.8	0.4	0.7	36.1	<0.01	0.03	6.9
YY17918		1.30	18.2	830	30.2	22.9	0.001	0.04	1.27	6.0	0.2	0.8	43.3	<0.01	0.03	4.7
YY17919		1.85	22.2	880	11.2	11.6	<0.001	0.04	0.65	4.4	0.3	0.7	17.5	<0.01	0.04	4.8
YY17920		1.07	18.9	990	89.3	17.5	0.001	0.05	3.03	6.2	0.5	0.7	47.2	<0.01	0.03	2.9
YY17921		1.04	18.9	830	138.5	18.5	0.001	0.04	4.04	6.4	0.3	0.7	39.8	<0.01	0.03	4.0
YY17922		1.10	21.4	810	55.7	22.1	0.001	0.04	12.50	7.6	0.3	1.4	40.7	<0.01	0.03	4.8
YY17923		1.48	13.3	390	72.4	26.5	0.001	0.02	2.17	3.1	<0.2	0.9	21.9	<0.01	0.03	1.7
YY17924		1.69	19.5	350	41.1	12.0	0.001	0.02	1.00	3.5	0.2	0.8	15.5	<0.01	0.04	2.2
YY17925		1.87	15.9	410	67.7	16.5	<0.001	0.02	1.59	3.5	<0.2	0.8	23.2	<0.01	0.04	2.9
YY17926		1.21	21.9	910	117.5	17.0	<0.001	0.04	5.37	5.8	0.2	0.7	39.8	<0.01	0.02	6.8
YY17927		1.46	18.6	470	117.5	15.7	<0.001	0.02	7.70	3.9	0.3	0.9	24.3	<0.01	0.03	7.0
YY17928		1.93	15.2	290	19.4	13.4	<0.001	0.02	0.89	2.9	<0.2	0.8	21.8	<0.01	0.04	2.0
YY17929		1.23	15.1	370	306	15.3	<0.001	0.03	5.85	4.1	0.3	1.0	19.3	<0.01	0.02	8.1
YY17930		1.06	14.0	400	50.4	18.3	<0.001	0.02	3.76	3.4	0.2	0.6	10.6	<0.01	0.03	11.7



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Page: 3 - D
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13491		0.064	0.27	2.21	56	0.44	4.30	227	<0.5
YY13492		0.086	0.32	2.04	79	0.37	6.53	190	0.7
YY13493		0.057	0.35	2.59	62	0.38	7.65	191	0.5
YY13494		0.093	0.27	3.00	78	0.56	16.30	90	0.9
YY13495		0.081	0.26	1.82	73	0.57	9.42	103	0.9
YY13496		0.056	0.35	3.52	74	0.41	17.90	94	0.8
YY13497		0.052	0.36	3.61	76	0.56	18.20	99	0.5
YY13498		0.077	0.36	2.58	62	0.78	12.60	91	0.9
YY13499		0.104	0.29	2.29	65	1.01	8.54	72	1.1
YY13500		0.064	0.34	2.62	74	0.62	11.30	82	0.6
YY17901		0.088	0.20	2.33	74	0.30	8.75	64	1.2
YY17902		0.097	0.23	3.70	78	0.24	12.70	71	1.3
YY17903		0.072	0.23	9.36	73	0.22	18.65	86	1.3
YY17904		0.107	0.24	6.83	82	0.39	19.55	72	1.4
YY17905		0.046	0.23	6.27	62	0.62	23.3	69	1.0
YY17906		0.063	0.25	2.35	76	0.40	6.05	78	0.9
YY17907		0.055	0.23	3.35	71	0.43	11.00	68	0.6
YY17908		0.109	0.21	4.12	75	0.42	13.50	78	2.4
YY17909		0.093	0.16	1.70	73	0.29	5.61	76	0.7
YY17910		0.100	0.14	1.30	74	0.29	4.57	68	0.7
YY17911		0.091	0.17	1.77	74	0.45	5.00	78	0.6
YY17912		0.095	0.19	1.80	68	1.84	5.66	77	1.1
YY17913		0.052	0.23	5.90	45	0.27	22.5	86	1.4
YY17914		0.064	0.27	5.83	61	0.35	15.25	74	0.8
YY17915		0.090	0.18	2.36	71	0.31	6.25	74	0.9
YY17916		0.077	0.20	6.51	68	0.33	12.15	78	1.2
YY17917		0.069	0.29	5.52	80	0.39	11.15	76	1.0
YY17918		0.073	0.25	3.92	71	0.49	8.07	112	1.2
YY17919		0.099	0.21	4.11	75	0.44	8.32	72	1.7
YY17920		0.055	0.20	5.14	61	0.32	16.95	224	1.2
YY17921		0.059	0.25	5.99	64	0.24	15.40	349	1.4
YY17922		0.049	0.31	3.59	70	0.30	13.05	707	1.9
YY17923		0.088	0.14	1.85	73	0.19	5.39	131	0.8
YY17924		0.074	0.17	0.75	71	0.18	3.14	183	1.3
YY17925		0.087	0.15	1.27	80	0.21	4.31	117	1.4
YY17926		0.062	0.28	4.77	62	0.19	11.70	175	3.1
YY17927		0.077	0.18	1.97	64	0.32	6.43	202	2.7
YY17928		0.117	0.10	0.46	97	0.24	2.41	88	2.0
YY17929		0.044	0.28	3.82	65	0.24	6.82	400	1.4
YY17930		0.037	0.29	2.23	55	0.23	5.83	104	0.8



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Page: 4 - A
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS	WH20174527
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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	
	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	
YY17931	0.48	0.005	0.22	1.25	17.8	<0.02	<10	100	0.34	0.24	0.18	0.61	21.5	4.9	21	
YY17932	0.58	0.083	7.79	2.00	278	0.06	<10	150	0.67	0.19	0.38	4.03	37.0	11.4	29	
YY17933	0.54	0.054	1.95	1.72	128.0	0.03	<10	150	0.46	0.20	0.32	4.18	27.1	9.3	30	
YY17934	0.39	0.130	5.83	2.00	384	0.08	<10	210	0.75	0.23	0.43	13.50	58.9	16.9	33	
YY17935	0.50	0.096	4.21	1.90	315	0.05	<10	170	0.42	0.28	0.35	5.14	31.6	8.7	32	
YY17936	0.55	0.098	3.71	1.79	260	0.06	<10	190	0.64	0.30	0.31	9.13	51.8	10.9	32	
YY17937	0.55	0.030	2.26	1.89	296	0.02	<10	230	0.76	0.24	0.34	3.94	48.2	7.6	33	
YY17938	0.52	0.013	0.69	2.45	61.1	<0.02	<10	260	0.54	0.17	0.35	0.87	28.2	10.3	38	
YY17939	0.42	0.042	4.36	1.84	146.5	0.03	<10	190	0.52	0.21	0.42	1.06	37.8	10.3	29	
YY17940	0.34	0.017	1.24	1.87	31.7	<0.02	<10	180	0.39	0.22	0.42	0.41	25.2	8.1	32	
YY17941	0.46	0.011	0.67	1.98	30.8	<0.02	<10	130	0.44	0.19	0.27	1.20	19.75	9.5	29	
YY17942	0.51	0.057	1.14	1.90	57.0	0.04	<10	330	0.74	0.38	0.53	1.22	50.5	12.2	28	
YY17943	0.51	0.014	0.76	1.63	38.9	<0.02	<10	190	0.39	0.22	0.44	0.41	25.7	11.9	27	
YY17944	0.40	0.011	0.29	1.59	28.4	<0.02	<10	140	0.33	0.20	0.21	0.70	21.4	9.8	26	
YY07880	0.56	0.015	1.66	2.32	97.7	<0.02	<10	490	0.90	0.25	0.80	1.46	51.6	9.9	30	
YY07881	0.46	0.004	0.23	1.23	47.0	<0.02	<10	170	0.23	0.22	0.32	2.23	22.7	9.2	23	
YY07882	0.58	0.008	0.70	2.31	54.7	<0.02	<10	340	0.54	0.27	0.59	0.43	31.9	12.2	34	
YY07883	0.57	0.012	1.34	2.26	46.3	<0.02	<10	330	0.46	0.26	0.67	0.42	26.4	9.0	34	
YY07884	0.61	0.007	0.64	1.92	26.6	<0.02	<10	300	0.56	0.22	0.67	0.44	38.7	9.7	30	
YY07885	0.44	0.010	0.89	2.50	48.3	<0.02	<10	380	0.73	0.25	0.45	0.40	46.4	14.1	34	
YY13051	0.54	0.013	0.45	1.81	21.8	<0.02	<10	180	0.37	0.23	0.40	0.56	25.0	9.5	31	
YY13052	0.50	0.025	0.68	1.82	26.8	<0.02	<10	240	0.43	0.21	0.33	1.05	39.1	9.3	30	
YY13053	0.45	0.008	0.84	1.89	32.4	<0.02	<10	200	0.38	0.22	0.44	0.77	30.9	8.0	30	
YY13054	0.42	0.010	1.34	1.90	35.2	<0.02	<10	250	0.38	0.22	0.46	0.72	28.4	7.6	33	
YY13055	0.49	0.053	1.83	1.94	108.5	0.03	<10	170	0.45	0.21	0.44	0.82	32.9	6.9	27	
YY13056	0.49	0.026	2.38	1.99	47.7	0.02	<10	160	0.41	0.21	0.35	0.73	26.5	6.6	30	
YY13057	0.49	0.028	2.42	1.90	105.5	0.02	<10	290	0.44	0.28	0.43	2.95	35.2	14.3	32	
YY13058	0.48	0.046	5.43	1.77	119.0	0.03	<10	260	0.55	0.31	0.75	2.94	35.0	8.4	29	
YY13059	0.53	0.057	5.04	2.04	129.0	0.03	<10	360	0.67	0.28	0.68	4.58	44.7	10.1	34	
YY13060	0.58	0.053	3.90	2.11	142.0	0.03	<10	350	0.74	0.41	0.84	7.83	32.2	10.5	37	
YY13061	0.50	0.072	8.41	1.91	294	0.06	<10	290	0.78	0.29	0.69	3.56	35.4	12.0	37	
YY13062	0.40	0.089	6.53	1.86	182.5	0.06	<10	310	0.74	0.23	0.74	3.73	42.9	9.1	32	
YY13063	0.48	0.154	11.70	2.02	350	0.12	<10	330	0.98	0.33	0.79	4.77	39.1	10.2	39	
YY13064	0.53	0.080	6.01	1.54	151.0	0.06	<10	250	0.68	0.20	0.52	5.04	47.2	12.6	30	
YY13065	0.50	0.045	4.84	1.98	98.9	0.03	<10	220	0.83	0.27	0.38	1.15	29.6	11.0	32	
YY13066	0.49	0.028	2.34	1.75	68.4	0.02	<10	160	0.73	0.16	0.37	1.03	34.8	9.2	29	
YY13067	0.53	0.016	0.85	1.52	75.2	0.02	<10	120	0.51	0.27	0.26	0.87	27.0	10.2	28	
YY13068	0.48	0.011	0.69	1.82	19.7	<0.02	<10	190	0.46	0.25	0.42	0.42	28.1	7.6	35	
YY13069	0.60	0.021	2.00	1.70	32.3	<0.02	<10	300	0.79	0.30	0.46	0.95	43.0	8.5	31	
YY13070	0.50	0.004	0.11	2.15	13.2	<0.02	<10	150	0.63	0.59	0.18	0.35	40.5	11.7	33	



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Page: 4 - B
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	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
YY17931		1.53	18.2	2.72	8.35	<0.05	0.02	0.11	0.023	0.05	11.2	5.4	0.17	275	2.06	<0.01
YY17932		3.96	23.0	3.26	5.78	<0.05	0.03	0.14	0.050	0.08	21.1	11.2	0.53	801	0.93	0.01
YY17933		2.00	17.7	2.73	5.97	<0.05	0.03	0.08	0.043	0.07	14.6	10.8	0.51	606	1.04	<0.01
YY17934		2.33	28.6	3.85	5.80	0.07	0.05	0.11	0.062	0.10	34.3	10.5	0.52	2290	1.58	0.01
YY17935		2.25	15.8	3.19	6.47	<0.05	0.02	0.08	0.059	0.09	18.0	11.0	0.53	892	0.97	0.01
YY17936		2.28	27.1	3.08	5.59	0.05	0.07	0.06	0.083	0.09	26.6	10.5	0.48	719	1.05	0.01
YY17937		1.87	30.4	3.60	5.98	0.05	0.20	0.06	0.056	0.09	24.9	11.5	0.51	242	1.40	0.01
YY17938		1.90	20.5	3.16	6.62	<0.05	0.06	0.04	0.035	0.08	12.8	13.4	0.58	496	0.97	0.01
YY17939		1.64	26.8	2.89	5.52	0.05	0.03	0.07	0.027	0.06	21.0	10.9	0.45	769	1.59	0.01
YY17940		1.34	13.0	2.36	6.23	<0.05	0.03	0.11	0.031	0.07	13.4	12.5	0.51	291	1.88	0.01
YY17941		1.12	17.0	2.93	6.91	<0.05	0.03	0.06	0.031	0.06	9.6	12.7	0.41	412	1.36	0.01
YY17942		5.38	22.1	3.58	6.48	0.07	0.10	0.08	0.037	0.12	30.9	15.0	0.61	1440	1.71	0.01
YY17943		2.06	11.6	3.09	5.88	<0.05	0.03	0.11	0.028	0.07	13.9	11.2	0.54	751	1.89	0.01
YY17944		1.69	12.2	2.87	6.78	<0.05	0.05	0.05	0.026	0.06	10.7	11.2	0.40	580	1.32	0.01
YY07880		5.86	25.9	3.45	7.85	0.06	0.03	0.12	0.038	0.15	37.0	15.0	0.56	706	2.05	0.01
YY07881		2.99	10.6	2.39	6.72	<0.05	0.06	0.02	0.020	0.17	11.6	7.9	0.43	706	1.37	0.01
YY07882		4.17	18.8	3.45	7.85	<0.05	0.05	0.05	0.035	0.12	16.9	14.9	0.69	768	1.43	0.01
YY07883		4.30	16.1	3.28	7.43	<0.05	0.05	0.10	0.036	0.11	14.8	15.2	0.64	616	1.16	0.01
YY07884		3.64	15.2	2.96	6.82	0.05	0.08	0.05	0.032	0.09	21.6	13.2	0.64	556	0.98	0.01
YY07885		6.44	20.5	3.85	7.81	0.05	0.06	0.09	0.044	0.15	27.7	15.7	0.65	967	1.27	0.01
YY13051		1.38	13.8	2.21	5.84	<0.05	0.03	0.06	0.029	0.07	12.7	11.7	0.56	478	0.70	0.01
YY13052		1.37	21.2	2.36	5.94	0.05	0.08	0.06	0.031	0.07	19.5	12.0	0.57	248	0.65	0.01
YY13053		1.36	15.7	1.91	6.38	<0.05	0.04	0.06	0.031	0.06	15.6	12.0	0.57	182	0.66	0.01
YY13054		1.49	15.8	2.07	6.27	<0.05	0.03	0.07	0.034	0.06	14.6	11.7	0.56	327	0.70	0.01
YY13055		1.76	16.7	2.32	6.04	<0.05	0.09	0.07	0.038	0.08	17.3	11.5	0.59	214	0.72	0.01
YY13056		2.42	13.2	2.27	6.04	<0.05	0.05	0.13	0.036	0.08	14.1	12.7	0.56	226	0.39	0.01
YY13057		2.66	18.4	3.00	6.53	<0.05	0.02	0.12	0.053	0.09	16.8	10.5	0.51	2850	1.56	0.01
YY13058		3.01	24.2	2.72	5.60	0.05	0.04	0.14	0.059	0.10	23.5	9.0	0.44	797	1.93	0.01
YY13059		2.90	33.9	3.05	6.28	0.06	0.03	0.17	0.063	0.12	32.2	10.4	0.51	980	2.06	0.01
YY13060		3.71	29.9	3.21	5.81	0.08	0.04	0.09	0.102	0.12	20.9	13.1	0.60	903	1.50	0.01
YY13061		3.78	27.9	3.40	5.73	0.06	0.05	0.13	0.055	0.10	19.7	12.0	0.58	1320	1.47	0.01
YY13062		4.04	27.4	3.22	5.17	0.08	0.05	0.20	0.053	0.09	28.3	10.3	0.53	940	1.89	0.02
YY13063		5.01	36.8	3.53	5.90	0.08	0.05	0.25	0.066	0.13	32.9	11.0	0.56	858	2.10	0.01
YY13064		2.70	23.7	2.63	4.70	0.06	0.06	0.15	0.037	0.08	26.2	10.0	0.48	2470	2.70	0.01
YY13065		5.29	19.2	2.99	5.50	0.06	0.03	0.16	0.034	0.09	18.0	12.2	0.51	731	2.68	0.01
YY13066		4.29	18.0	2.73	4.75	0.06	0.07	0.09	0.027	0.07	16.1	9.8	0.46	1270	2.01	0.01
YY13067		2.87	10.2	2.89	4.92	0.05	0.02	0.08	0.030	0.09	13.9	10.7	0.43	972	4.18	0.01
YY13068		1.69	20.1	2.16	5.67	0.05	0.03	0.09	0.033	0.06	14.4	11.5	0.49	354	6.59	0.01
YY13069		3.96	31.7	2.55	5.00	0.09	0.10	0.12	0.031	0.07	28.8	12.1	0.57	277	1.85	0.02
YY13070		6.19	19.9	3.93	6.89	0.05	0.05	0.06	0.036	0.09	15.0	15.0	0.52	844	3.29	0.01



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Page: 4 - C
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	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
YY17931		1.34	11.7	600	19.7	9.6	<0.001	0.06	1.24	1.7	0.4	0.9	17.2	<0.01	0.05	0.9
YY17932		1.29	16.8	700	627	15.1	<0.001	0.03	5.20	5.1	0.6	0.8	25.5	<0.01	0.03	8.7
YY17933		1.25	16.0	640	205	13.2	<0.001	0.04	3.16	4.1	0.5	0.8	23.3	<0.01	0.02	4.7
YY17934		1.24	19.9	710	532	17.8	<0.001	0.04	5.21	7.0	0.6	1.0	30.7	<0.01	0.03	9.7
YY17935		1.24	15.6	630	397	17.5	<0.001	0.03	5.34	4.4	0.4	1.1	24.7	<0.01	0.02	6.9
YY17936		1.18	16.7	640	577	15.8	<0.001	0.02	7.00	6.9	0.4	1.0	22.0	<0.01	0.02	13.2
YY17937		1.25	18.6	630	289	16.4	<0.001	0.02	5.57	7.5	0.4	0.8	23.8	<0.01	0.03	15.1
YY17938		1.38	21.2	500	70.8	14.9	<0.001	0.01	1.38	5.4	0.2	0.7	27.9	<0.01	0.03	5.1
YY17939		0.98	20.3	650	270	10.2	<0.001	0.05	29.3	5.0	0.3	1.8	34.3	<0.01	0.03	2.9
YY17940		1.33	16.5	880	79.3	11.8	<0.001	0.06	2.28	4.6	0.4	0.6	28.8	<0.01	0.02	2.4
YY17941		1.62	19.2	440	42.7	11.3	<0.001	0.03	1.51	3.4	0.3	0.7	23.3	0.01	0.04	2.4
YY17942		1.29	18.9	780	60.3	18.1	<0.001	0.03	2.47	9.4	0.4	0.8	42.0	<0.01	0.03	9.6
YY17943		1.40	15.0	490	53.0	12.7	<0.001	0.04	2.86	4.3	0.2	0.7	30.8	<0.01	0.02	3.8
YY17944		1.81	14.6	390	51.2	10.1	<0.001	0.03	1.76	3.7	0.2	0.8	21.0	<0.01	0.03	3.6
YY07880		1.39	19.0	820	77.3	32.2	<0.001	0.07	3.58	7.5	0.3	0.8	60.6	<0.01	0.03	5.5
YY07881		2.03	11.3	200	30.3	68.4	<0.001	0.01	2.78	3.8	0.2	0.8	25.8	<0.01	0.03	4.2
YY07882		1.60	19.6	700	35.6	25.2	<0.001	0.04	3.01	7.0	0.3	0.9	43.2	<0.01	0.03	5.6
YY07883		1.36	17.8	740	38.3	25.0	<0.001	0.05	1.96	7.7	0.3	0.8	45.1	<0.01	0.02	4.9
YY07884		1.81	16.3	700	37.0	19.2	<0.001	0.03	2.04	7.3	0.2	0.8	40.4	<0.01	0.01	10.5
YY07885		1.92	19.6	640	22.4	32.1	<0.001	0.02	1.94	10.9	0.3	1.1	36.8	<0.01	0.02	12.6
YY13051		1.36	17.9	690	54.4	11.5	<0.001	0.03	1.88	4.7	0.4	0.7	25.9	<0.01	0.02	4.7
YY13052		1.52	18.1	650	60.2	13.3	<0.001	0.02	2.25	6.8	0.4	0.7	23.2	<0.01	0.02	7.5
YY13053		1.48	17.1	510	66.8	11.1	<0.001	0.05	2.14	5.2	0.3	0.7	31.0	<0.01	0.01	5.3
YY13054		1.16	16.9	830	94.2	11.5	<0.001	0.07	2.15	5.6	0.3	0.7	32.9	<0.01	0.01	3.5
YY13055		1.35	15.8	690	140.0	15.7	<0.001	0.03	3.39	5.2	0.2	0.7	24.6	<0.01	0.02	9.1
YY13056		1.33	15.7	650	180.0	11.2	<0.001	0.04	4.05	4.7	0.4	1.1	22.8	<0.01	0.02	4.4
YY13057		0.88	17.1	900	177.0	16.5	<0.001	0.07	5.43	5.2	0.4	1.2	35.9	<0.01	0.02	2.8
YY13058		0.85	16.7	1050	218	15.1	<0.001	0.10	6.28	4.6	0.5	2.1	53.1	<0.01	0.02	2.6
YY13059		0.92	22.1	980	229	19.4	<0.001	0.08	5.67	5.5	0.5	1.0	48.7	<0.01	0.03	2.9
YY13060		0.82	24.0	910	232	21.4	<0.001	0.07	5.35	6.4	0.5	1.0	44.5	<0.01	0.04	4.4
YY13061		0.86	25.1	910	539	23.3	<0.001	0.08	9.92	6.7	0.6	2.0	48.5	<0.01	0.03	5.6
YY13062		0.94	19.0	1080	391	17.1	<0.001	0.10	7.35	7.8	0.6	0.9	47.6	<0.01	0.02	4.8
YY13063		0.94	22.4	940	658	20.6	<0.001	0.11	11.10	7.0	0.6	1.8	50.0	<0.01	0.04	5.8
YY13064		0.88	20.6	780	404	13.4	<0.001	0.04	5.07	6.5	0.4	0.9	33.0	<0.01	0.02	7.9
YY13065		1.06	20.4	500	173.5	16.9	<0.001	0.02	5.13	5.3	0.3	0.9	25.5	<0.01	0.03	6.8
YY13066		1.13	19.5	690	82.0	10.7	<0.001	0.01	4.13	5.4	0.3	0.5	23.4	<0.01	0.02	7.9
YY13067		1.00	13.9	540	98.7	13.7	<0.001	0.03	3.68	3.2	0.3	0.5	19.9	<0.01	0.03	4.4
YY13068		1.24	15.0	730	168.0	11.3	<0.001	0.11	2.44	5.5	0.6	0.5	26.0	<0.01	0.02	5.0
YY13069		1.36	23.0	750	71.6	11.8	<0.001	0.02	2.07	7.9	0.6	0.5	32.4	<0.01	0.03	10.1
YY13070		1.62	20.7	360	24.0	19.5	<0.001	0.02	1.75	5.0	0.2	0.7	14.8	<0.01	0.05	9.7



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Page: 4 - D
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY17931		0.068	0.12	1.34	90	0.23	2.94	56	0.8
YY17932		0.058	0.27	10.05	58	0.25	9.91	826	1.3
YY17933		0.072	0.20	4.06	60	0.20	5.63	446	1.1
YY17934		0.074	0.23	11.35	62	0.22	18.30	798	1.9
YY17935		0.073	0.21	2.90	63	0.24	6.81	679	1.2
YY17936		0.083	0.25	6.66	58	0.19	14.20	626	4.0
YY17937		0.079	0.22	5.13	66	0.22	13.15	457	10.3
YY17938		0.098	0.22	1.06	70	0.30	5.18	132	3.2
YY17939		0.075	0.17	3.94	61	0.25	13.30	157	1.2
YY17940		0.081	0.17	2.14	67	1.21	7.12	108	1.4
YY17941		0.094	0.13	0.71	71	0.23	3.57	75	1.4
YY17942		0.077	0.21	4.07	66	0.22	19.75	159	5.3
YY17943		0.089	0.18	1.75	72	0.38	5.12	135	1.5
YY17944		0.091	0.16	0.95	68	0.84	3.40	96	1.9
YY07880		0.055	0.28	4.50	67	0.32	20.5	208	1.2
YY07881		0.123	0.19	0.68	70	0.28	3.49	114	2.9
YY07882		0.095	0.24	2.31	74	0.61	8.01	141	1.9
YY07883		0.082	0.27	2.68	74	0.29	7.65	134	1.7
YY07884		0.104	0.29	4.99	70	0.25	10.90	104	3.1
YY07885		0.108	0.34	6.15	82	0.45	13.00	94	2.9
YY13051		0.092	0.20	1.59	54	0.29	5.22	114	1.6
YY13052		0.094	0.17	2.35	62	0.24	9.63	134	3.7
YY13053		0.085	0.19	1.95	69	0.17	6.73	129	2.0
YY13054		0.069	0.21	2.79	56	0.17	6.88	189	1.4
YY13055		0.083	0.21	4.22	66	0.19	6.54	199	4.1
YY13056		0.074	0.23	2.47	52	0.41	5.66	204	2.1
YY13057		0.059	0.27	2.72	62	0.22	9.68	296	0.9
YY13058		0.043	0.19	4.40	50	0.22	14.80	345	1.4
YY13059		0.047	0.23	6.65	56	0.24	24.5	431	1.1
YY13060		0.053	0.23	7.40	60	0.18	13.00	692	1.4
YY13061		0.044	0.30	6.43	59	0.21	10.20	523	1.6
YY13062		0.052	0.25	8.30	60	0.26	19.15	345	1.9
YY13063		0.049	0.25	9.23	62	0.24	20.0	600	1.8
YY13064		0.060	0.20	8.61	53	0.26	18.10	340	2.2
YY13065		0.053	0.23	6.37	60	0.28	15.55	287	1.0
YY13066		0.086	0.15	4.52	62	0.29	12.70	204	2.8
YY13067		0.059	0.18	2.26	58	0.25	4.89	165	0.6
YY13068		0.069	0.18	6.96	71	0.19	9.10	74	1.3
YY13069		0.084	0.18	22.2	60	0.24	37.6	145	4.4
YY13070		0.085	0.20	1.78	73	0.28	5.34	78	2.3



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Page: 5 - A
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

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CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
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	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY13071		0.52	0.005	0.09	2.42	12.0	<0.02	<10	90	0.58	0.78	0.14	0.19	30.2	10.4	33
YY13072		0.52	0.009	0.40	1.70	15.7	<0.02	<10	190	0.58	0.23	0.35	0.28	32.2	10.3	33
YY13073		0.47	0.015	0.13	2.94	12.8	<0.02	<10	140	0.58	0.17	0.29	0.31	20.8	13.1	38
YY13074		0.43	0.003	0.13	2.87	14.7	<0.02	<10	120	0.53	0.24	0.14	0.61	17.90	10.3	41
YY13075		0.45	0.006	0.07	1.97	8.8	<0.02	<10	170	0.41	0.48	0.35	0.24	28.3	12.0	36
YY13076		0.48	0.008	0.09	1.91	9.4	<0.02	<10	160	0.37	0.20	0.30	0.22	24.2	10.2	32
YY13077		0.49	0.006	0.24	1.99	35.4	<0.02	<10	270	0.48	0.22	0.38	0.32	34.1	12.3	33
YY13078		0.45	0.006	0.59	2.15	16.0	<0.02	<10	300	0.65	0.30	0.36	0.32	48.3	14.4	38
YY13079		0.42	0.004	0.14	1.57	17.7	<0.02	<10	150	0.26	0.23	0.29	0.31	22.4	9.6	29
YY13080		0.50	0.004	0.22	2.14	12.5	<0.02	<10	310	0.36	0.30	0.53	0.17	25.7	11.5	37
YY13081		0.38	0.006	0.29	2.35	30.8	<0.02	<10	340	0.38	0.26	0.49	0.34	32.3	13.0	35
YY13082		0.62	0.004	1.33	2.07	39.2	<0.02	<10	210	0.33	0.38	0.34	0.21	28.0	15.5	31
YY13083		0.64	0.004	0.13	2.37	9.2	<0.02	<10	190	0.36	0.25	0.29	0.14	24.9	8.9	33
YY13084		0.64	0.004	0.04	2.33	15.3	<0.02	<10	200	0.43	0.20	0.36	0.16	30.6	10.3	34
YY13085		0.55	0.006	0.09	2.28	19.4	<0.02	<10	250	0.42	0.15	0.34	0.14	26.0	11.5	30
YY13086		0.49	0.004	0.04	1.89	8.5	<0.02	<10	230	0.26	0.15	0.34	0.10	18.30	9.3	30
YY13087		0.53	0.003	0.08	1.95	12.8	0.07	<10	260	0.27	0.17	0.56	0.11	27.2	14.1	27
YY13088		0.57	0.004	0.10	2.17	10.8	<0.02	<10	260	0.37	0.21	0.41	0.20	34.9	11.4	29
YY13089		0.55	0.004	0.19	2.48	12.2	<0.02	<10	350	0.39	0.21	0.64	0.20	33.9	15.8	38
YY13090		0.54	0.006	0.05	1.97	6.5	<0.02	<10	260	0.31	0.13	0.37	0.12	25.7	9.6	33
YY13091		0.41	0.004	0.17	2.14	11.7	<0.02	<10	440	0.50	0.46	0.97	0.38	53.0	12.9	30
YY13092		0.44	0.004	0.18	1.82	6.3	<0.02	<10	290	0.32	0.21	0.57	0.27	27.7	6.1	31
YY13093		0.52	0.004	0.10	1.98	8.2	<0.02	<10	200	0.33	0.23	0.35	0.19	31.9	8.8	29
YY13094		0.55	0.006	0.10	1.73	43.4	<0.02	<10	210	0.31	0.35	0.41	0.17	33.3	9.4	28
YY13095		0.61	0.006	0.21	1.87	20.4	<0.02	<10	320	0.26	0.33	0.32	0.18	29.9	6.6	29
YY13096		0.55	0.005	0.23	2.22	22.5	<0.02	<10	250	0.49	0.22	0.31	0.20	34.2	9.3	31
YY13097		0.57	0.007	0.16	2.42	20.4	<0.02	<10	250	0.49	0.37	0.31	0.14	38.7	8.2	34
YY13098		0.63	0.005	0.23	2.28	22.2	<0.02	<10	260	0.37	0.29	0.38	0.25	35.9	9.3	30
YY13099		0.52	0.004	0.40	2.31	40.9	<0.02	<10	280	0.42	0.17	0.41	0.23	28.8	15.4	33
YY13100		0.41	0.010	0.34	1.71	18.0	<0.02	<10	210	0.26	0.18	0.36	0.36	21.2	5.6	26
YY13301		0.53	0.006	0.21	1.97	48.1	<0.02	<10	310	0.55	0.30	0.42	0.26	47.0	13.3	31
YY13302		0.48	0.005	0.14	1.65	59.4	<0.02	<10	250	0.48	0.26	0.32	0.31	37.6	8.6	25
YY13303		0.57	0.008	0.17	2.04	40.3	<0.02	<10	280	0.56	0.30	0.35	0.18	45.1	9.6	26
YY13304		0.57	0.007	0.29	2.36	51.9	<0.02	<10	360	0.55	0.27	0.44	0.27	55.6	12.1	30
YY13305		0.59	0.007	0.06	1.82	24.5	<0.02	<10	230	0.32	0.25	0.27	0.19	29.0	13.7	27
YY13306		0.44	0.005	0.19	1.82	34.2	<0.02	<10	260	0.46	0.28	0.39	0.23	34.2	10.3	26
YY13307		0.47	0.006	0.15	1.81	16.8	<0.02	<10	270	0.42	0.28	0.47	0.18	35.7	7.8	26
YY13308		0.44	0.017	0.56	3.03	29.7	<0.02	<10	530	1.28	0.82	0.38	0.39	134.5	13.7	36
YY13309		0.59	0.006	0.26	2.17	37.9	0.03	<10	220	0.40	0.35	0.41	0.19	29.6	12.6	32
YY13310		0.57	0.005	0.22	2.01	46.9	<0.02	<10	230	0.41	0.30	0.44	0.21	36.1	8.5	30



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Page: 5 - B
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOD		0.05	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
YY13071		2.67	18.2	3.74	8.46	<0.05	0.04	0.05	0.032	0.05	14.2	16.3	0.44	363	1.81	0.01
YY13072		5.71	20.9	2.94	5.05	0.06	0.06	0.06	0.026	0.10	18.0	10.4	0.55	568	1.93	0.02
YY13073		2.61	20.7	3.77	6.79	<0.05	0.05	0.05	0.035	0.05	9.7	16.1	0.59	371	1.57	0.01
YY13074		1.56	17.5	4.54	10.65	<0.05	0.02	0.07	0.040	0.04	8.6	17.7	0.47	267	4.41	0.01
YY13075		1.91	23.4	3.14	5.65	0.05	0.05	0.04	0.027	0.06	11.5	11.9	0.55	408	1.58	0.02
YY13076		1.62	22.2	3.23	6.67	<0.05	0.03	0.04	0.028	0.06	11.2	11.3	0.50	375	2.54	0.01
YY13077		4.51	23.8	3.22	5.80	0.07	0.05	0.04	0.034	0.14	17.7	11.0	0.57	810	7.08	0.01
YY13078		3.08	36.0	3.42	6.45	0.07	0.03	0.08	0.035	0.09	26.6	12.0	0.57	1420	21.2	0.01
YY13079		1.88	16.1	2.74	5.43	<0.05	0.03	0.05	0.025	0.07	10.6	9.7	0.49	422	4.56	0.01
YY13080		2.50	17.4	2.52	7.54	<0.05	<0.02	0.06	0.032	0.06	14.3	12.8	0.57	726	18.70	0.01
YY13081		3.81	19.2	3.48	7.14	0.05	0.04	0.06	0.032	0.10	16.8	12.3	0.67	954	9.78	0.01
YY13082		3.52	15.1	2.93	6.90	<0.05	<0.02	0.09	0.033	0.08	14.0	11.1	0.59	1820	6.23	0.01
YY13083		3.47	14.0	2.62	7.56	0.05	0.02	0.04	0.030	0.14	12.2	13.1	0.63	761	0.88	0.01
YY13084		2.05	16.8	3.60	7.70	0.06	0.04	0.02	0.032	0.13	15.4	15.3	0.69	279	1.00	0.01
YY13085		2.36	16.0	3.44	7.27	0.05	0.02	0.02	0.029	0.12	13.2	12.4	0.63	642	1.34	0.01
YY13086		1.67	11.7	2.87	6.74	<0.05	0.02	0.02	0.025	0.06	10.2	11.2	0.62	420	0.89	0.01
YY13087		2.33	9.5	3.46	6.83	<0.05	<0.02	0.04	0.030	0.07	13.6	12.5	0.68	1410	1.45	0.01
YY13088		3.55	13.4	2.76	7.27	0.06	0.02	0.05	0.032	0.09	17.8	13.9	0.71	292	1.50	0.01
YY13089		3.27	13.6	4.52	7.64	0.05	0.03	0.11	0.036	0.14	17.2	13.0	0.73	575	2.05	0.01
YY13090		2.97	8.9	2.50	6.61	<0.05	0.02	0.06	0.031	0.08	14.2	12.7	0.62	252	0.86	0.01
YY13091		4.01	21.3	3.07	6.62	0.06	0.02	0.07	0.035	0.08	34.1	12.7	0.56	819	1.97	0.01
YY13092		4.00	13.6	1.38	6.26	<0.05	0.02	0.12	0.026	0.08	16.8	11.9	0.44	220	0.62	0.01
YY13093		2.75	13.1	2.11	6.32	0.05	0.04	0.08	0.031	0.08	17.7	10.6	0.54	199	0.56	0.01
YY13094		2.95	12.1	3.48	5.58	0.05	0.03	0.06	0.027	0.08	18.5	8.9	0.52	405	1.51	0.01
YY13095		2.72	12.3	2.28	6.07	0.05	0.03	0.07	0.028	0.07	16.7	9.9	0.53	185	0.67	0.01
YY13096		2.32	21.2	2.76	6.86	0.07	0.03	0.07	0.034	0.08	19.3	13.9	0.56	341	1.48	0.02
YY13097		3.01	16.8	2.81	6.94	0.09	0.05	0.15	0.030	0.13	22.9	13.9	0.64	256	1.07	0.02
YY13098		3.02	12.5	2.81	6.82	0.07	0.04	0.12	0.028	0.11	19.5	14.0	0.67	677	0.94	0.02
YY13099		2.95	12.4	3.96	6.97	0.07	0.02	0.08	0.028	0.10	16.6	13.2	0.64	473	2.06	0.02
YY13100		1.88	15.6	2.43	5.92	0.05	0.02	0.03	0.022	0.06	13.3	8.0	0.41	304	2.70	0.02
YY13301		3.86	16.2	3.41	6.85	0.07	0.03	0.11	0.036	0.10	28.3	15.3	0.59	889	1.17	0.02
YY13302		4.49	12.9	3.31	6.32	0.08	0.05	0.06	0.040	0.11	21.6	14.0	0.56	552	1.58	0.02
YY13303		3.35	15.4	3.16	6.89	0.08	0.05	0.10	0.037	0.09	26.3	15.3	0.59	458	1.56	0.02
YY13304		4.32	19.2	3.46	7.62	0.09	0.05	0.08	0.039	0.13	33.1	17.7	0.68	691	1.56	0.02
YY13305		2.84	11.5	3.29	6.75	0.05	0.05	0.03	0.024	0.09	15.0	13.6	0.54	1460	1.91	0.02
YY13306		3.13	16.6	3.50	6.34	0.07	0.04	0.10	0.034	0.09	19.1	13.0	0.53	473	2.07	0.02
YY13307		3.27	12.1	2.54	5.98	0.07	0.05	0.18	0.032	0.11	21.2	12.6	0.56	439	1.09	0.02
YY13308		6.33	30.3	3.89	8.42	0.17	0.07	0.14	0.052	0.16	90.0	17.0	0.60	957	2.55	0.02
YY13309		3.05	13.2	3.26	6.86	0.06	0.04	0.04	0.034	0.11	17.1	14.2	0.67	663	1.62	0.02
YY13310		2.79	15.0	3.39	6.65	0.07	0.06	0.05	0.031	0.10	20.7	13.8	0.64	307	1.29	0.02



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Page: 5 - C
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	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
YY13071		1.84	21.0	290	15.8	11.5	<0.001	0.02	1.07	4.5	0.3	0.7	14.7	0.01	0.07	6.6
YY13072		1.29	20.7	590	30.0	15.6	<0.001	0.01	2.27	5.9	0.2	0.6	24.0	<0.01	0.02	8.0
YY13073		1.89	29.4	440	11.2	9.5	<0.001	0.03	0.95	4.5	0.5	0.6	24.3	0.01	0.04	3.5
YY13074		1.83	22.3	400	12.4	7.8	<0.001	0.03	0.82	4.1	0.4	0.8	14.7	<0.01	0.05	1.4
YY13075		1.61	26.1	790	8.5	11.5	<0.001	0.02	0.75	4.5	0.3	0.5	23.4	0.02	0.03	4.0
YY13076		1.33	20.7	680	9.1	11.1	<0.001	0.02	0.80	3.7	0.4	0.6	22.2	<0.01	0.04	2.2
YY13077		1.62	20.3	670	17.3	24.7	<0.001	0.02	2.45	5.9	0.3	0.8	24.4	<0.01	0.02	8.2
YY13078		1.03	21.4	820	16.3	17.2	<0.001	0.04	2.63	6.1	0.4	0.6	27.8	<0.01	0.04	4.7
YY13079		1.30	18.0	530	11.9	12.4	<0.001	0.02	1.36	3.4	0.3	0.5	21.5	<0.01	0.04	3.3
YY13080		0.86	18.8	1070	14.9	11.3	<0.001	0.07	1.23	4.5	0.4	0.6	38.1	<0.01	0.02	1.7
YY13081		1.61	18.8	950	16.4	16.3	<0.001	0.05	1.72	6.8	0.4	0.8	31.2	<0.01	0.02	6.2
YY13082		1.12	15.3	1080	75.9	15.8	<0.001	0.05	4.98	4.6	0.4	0.8	23.5	<0.01	0.03	3.0
YY13083		1.17	16.1	970	13.4	24.4	<0.001	0.05	1.04	4.1	0.3	0.9	18.6	<0.01	0.01	2.0
YY13084		1.91	20.8	920	11.3	20.6	<0.001	0.03	0.85	4.9	0.3	0.7	20.9	<0.01	0.02	5.1
YY13085		1.23	17.5	970	11.3	18.7	<0.001	0.05	1.41	3.8	0.3	0.6	23.4	<0.01	0.03	2.0
YY13086		1.13	15.9	610	7.5	11.1	<0.001	0.04	0.84	3.1	0.3	0.6	25.6	<0.01	0.03	1.4
YY13087		1.06	14.1	1100	11.9	11.7	<0.001	0.05	2.25	4.8	0.2	0.6	30.7	<0.01	0.02	2.1
YY13088		1.60	16.5	940	17.3	18.9	<0.001	0.04	3.57	5.8	0.2	0.7	21.4	<0.01	0.01	5.9
YY13089		1.80	14.8	1260	11.3	22.8	<0.001	0.12	3.32	8.6	0.5	0.8	31.7	<0.01	0.02	6.2
YY13090		1.35	14.9	760	13.2	14.2	<0.001	0.03	0.91	4.5	0.2	0.6	21.4	<0.01	0.01	4.2
YY13091		1.18	20.1	950	14.6	17.6	<0.001	0.07	0.67	5.3	0.5	0.6	65.6	<0.01	0.04	3.3
YY13092		1.13	13.8	630	22.7	16.7	<0.001	0.12	0.74	5.5	0.3	0.6	38.3	<0.01	0.01	3.1
YY13093		1.62	14.8	570	15.9	17.0	<0.001	0.03	0.76	5.8	0.3	0.7	21.8	<0.01	0.02	7.2
YY13094		1.60	15.0	760	15.1	15.5	<0.001	0.03	1.19	4.8	0.2	0.7	24.7	<0.01	0.03	8.3
YY13095		1.78	15.0	520	17.4	14.5	<0.001	0.02	1.29	4.9	0.2	0.7	21.6	<0.01	0.03	7.3
YY13096		1.51	23.3	660	16.5	15.6	<0.001	0.04	1.01	4.4	0.5	0.7	24.1	<0.01	0.03	3.6
YY13097		1.93	18.7	700	18.4	24.0	<0.001	0.04	1.00	6.4	0.4	0.8	18.8	<0.01	0.04	14.7
YY13098		1.83	16.9	710	24.4	20.1	<0.001	0.03	2.28	5.6	0.4	0.8	22.8	<0.01	0.02	7.9
YY13099		1.52	16.4	910	33.9	18.0	<0.001	0.04	2.56	5.2	0.2	0.8	27.5	<0.01	0.03	4.8
YY13100		1.20	13.9	540	18.7	13.8	<0.001	0.05	0.95	2.8	0.3	0.6	27.3	<0.01	0.02	1.0
YY13301		1.67	17.4	590	15.3	27.4	<0.001	0.02	0.97	8.1	0.5	0.9	29.2	<0.01	0.03	7.6
YY13302		1.63	15.2	570	14.2	28.8	<0.001	0.02	1.28	6.0	0.3	0.9	22.6	<0.01	0.02	9.5
YY13303		1.75	15.3	440	17.1	22.5	<0.001	0.02	0.93	6.5	0.3	0.9	25.1	<0.01	0.02	10.2
YY13304		1.70	18.0	620	17.8	29.4	<0.001	0.03	1.29	9.1	0.4	0.9	32.1	<0.01	0.03	12.5
YY13305		1.51	15.1	440	18.8	23.4	<0.001	0.02	1.32	4.8	0.5	0.8	19.8	<0.01	0.03	7.3
YY13306		1.80	15.9	730	20.3	21.3	<0.001	0.03	1.69	5.7	0.4	0.8	27.8	<0.01	0.03	7.2
YY13307		1.81	14.5	530	19.6	23.7	<0.001	0.03	1.60	6.1	0.4	0.8	30.4	<0.01	0.01	9.3
YY13308		1.39	23.2	600	38.9	33.5	<0.001	0.03	2.12	15.5	0.5	0.9	29.2	<0.01	0.04	19.7
YY13309		1.65	17.4	610	30.5	23.1	<0.001	0.02	1.56	5.5	0.3	0.8	24.7	<0.01	0.03	8.8
YY13310		2.08	16.9	600	29.1	24.6	<0.001	0.03	1.95	5.7	0.4	0.9	28.3	<0.01	0.03	11.0



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Page: 5 - D
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13071		0.096	0.17	1.59	83	0.27	5.23	53	1.8
YY13072		0.104	0.24	4.98	67	0.27	11.20	79	2.6
YY13073		0.113	0.13	0.91	85	0.35	4.06	58	2.1
YY13074		0.103	0.15	0.64	106	0.23	3.27	56	1.0
YY13075		0.116	0.13	1.20	76	0.28	5.85	63	1.9
YY13076		0.106	0.15	1.17	83	0.48	5.28	58	1.1
YY13077		0.119	0.30	3.16	72	0.90	8.86	80	2.3
YY13078		0.082	0.19	7.49	72	0.50	10.90	76	1.0
YY13079		0.097	0.13	1.00	67	0.57	4.11	61	1.1
YY13080		0.066	0.23	3.60	64	0.30	6.52	56	0.6
YY13081		0.104	0.30	3.15	77	0.61	8.79	72	1.7
YY13082		0.080	0.38	2.42	69	1.02	5.87	108	0.6
YY13083		0.107	0.27	2.07	71	0.36	5.78	75	0.7
YY13084		0.136	0.20	1.15	98	0.44	6.67	73	1.6
YY13085		0.102	0.21	1.36	82	0.38	5.78	73	0.7
YY13086		0.107	0.12	1.02	72	0.30	4.04	60	0.7
YY13087		0.092	0.18	1.20	77	0.32	6.17	68	0.5
YY13088		0.100	0.28	1.67	78	0.38	7.98	65	1.1
YY13089		0.117	0.35	2.93	88	0.64	8.62	65	1.1
YY13090		0.073	0.24	1.25	59	0.36	5.54	74	0.8
YY13091		0.063	0.24	10.70	68	0.29	16.70	74	0.8
YY13092		0.053	0.26	5.40	40	0.21	7.68	53	0.8
YY13093		0.096	0.24	3.32	58	0.36	7.14	59	1.5
YY13094		0.080	0.25	3.19	68	0.34	7.66	62	1.3
YY13095		0.094	0.23	2.22	54	0.28	6.21	62	1.4
YY13096		0.091	0.18	3.22	63	0.39	7.76	66	1.0
YY13097		0.114	0.26	4.11	71	0.48	8.26	71	1.9
YY13098		0.120	0.28	2.23	71	0.53	7.42	74	1.4
YY13099		0.101	0.29	2.39	79	0.63	5.79	90	1.0
YY13100		0.068	0.14	1.72	63	0.43	4.75	62	0.6
YY13301		0.092	0.28	4.09	73	0.25	15.10	84	1.1
YY13302		0.085	0.29	2.24	69	0.25	8.29	88	1.9
YY13303		0.077	0.30	3.38	69	0.19	11.75	80	2.0
YY13304		0.089	0.35	3.76	72	0.25	13.65	99	2.0
YY13305		0.086	0.28	1.38	72	0.31	4.62	87	2.3
YY13306		0.076	0.28	3.39	69	0.29	9.25	82	1.3
YY13307		0.099	0.33	2.69	63	0.28	9.12	78	2.5
YY13308		0.049	0.43	8.12	72	0.25	32.8	103	2.4
YY13309		0.107	0.31	1.98	73	0.18	5.67	100	1.5
YY13310		0.116	0.33	3.05	73	0.22	8.11	91	2.6



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Page: 6 - A
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
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	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY13311		0.57	0.007	0.31	2.06	19.8	<0.02	<10	240	0.53	0.29	0.41	0.30	47.1	8.5	30
YY13312		0.47	0.008	0.51	1.60	54.7	<0.02	<10	310	0.43	0.23	0.59	0.47	41.1	12.8	24
YY13313		0.44	0.014	0.79	2.22	49.4	<0.02	<10	440	0.76	0.33	0.74	0.43	65.2	8.6	33
YY13314		0.67	0.008	0.47	1.53	58.1	<0.02	<10	260	0.40	0.20	0.52	0.43	38.2	10.7	27
YY13315		0.63	0.010	0.73	1.92	88.1	0.02	<10	260	0.45	0.17	0.37	0.59	36.5	11.2	31
YY13317		0.67	0.012	1.23	1.76	172.0	0.06	<10	270	0.50	0.24	0.41	1.38	33.2	7.9	30
YY13318		0.52	0.041	4.63	2.23	211	0.03	<10	320	0.70	0.33	0.37	6.12	35.6	8.3	33
YY13319		0.49	0.042	3.57	1.67	168.0	0.02	<10	200	0.32	0.54	0.33	2.78	20.5	7.5	32
YY13320		0.53	0.016	1.54	1.83	87.4	<0.02	<10	250	0.37	0.65	0.47	2.23	24.8	11.7	31
YY13321		0.36	0.078	3.15	1.87	128.0	0.07	<10	260	0.43	1.40	0.25	2.47	36.1	20.4	29
YY13322		0.50	0.025	2.36	1.66	61.6	0.02	<10	280	0.24	1.16	0.41	1.74	21.8	12.1	28
YY13323		0.52	0.022	1.25	1.40	59.9	0.02	<10	250	0.32	0.67	0.37	3.69	33.5	10.9	24
YY13324		0.51	0.020	1.18	1.93	52.4	<0.02	<10	220	0.36	0.39	0.43	1.58	31.6	11.8	31
YY13325		0.54	0.048	1.85	2.00	108.0	0.03	<10	290	0.52	0.55	0.59	3.43	40.2	13.9	31
YY13326		0.50	0.015	0.44	1.68	54.0	<0.02	<10	200	0.39	0.25	0.46	1.04	27.2	8.9	30
YY13327		0.47	0.008	0.28	1.71	57.0	<0.02	<10	260	0.34	0.31	0.52	1.53	28.7	10.7	33
YY13328		0.55	0.012	0.98	1.89	39.9	<0.02	<10	250	0.34	0.34	0.49	1.80	24.8	8.5	35
YY13329		0.54	0.010	0.83	1.83	59.3	<0.02	<10	260	0.40	0.35	0.64	2.52	29.9	11.3	32
YY13330		0.62	0.010	1.04	2.01	46.5	<0.02	<10	310	0.36	0.32	0.51	2.79	34.8	15.1	34
YY13331		0.53	0.005	0.27	1.87	33.2	<0.02	<10	280	0.37	0.26	0.55	1.21	26.6	11.5	32
YY13332		0.45	0.006	0.25	1.78	51.1	<0.02	<10	350	0.31	0.27	1.04	1.87	28.6	13.8	30
YY13333		0.50	0.008	0.35	1.61	35.5	<0.02	<10	300	0.40	0.32	0.81	1.46	32.2	18.4	27
YY13334		0.60	0.009	0.74	1.89	38.7	<0.02	<10	260	0.43	0.26	0.47	1.39	29.7	10.4	32
YY13335		0.45	0.012	1.20	1.41	148.0	<0.02	<10	250	0.41	0.27	0.69	1.12	24.6	7.5	21
YY13336		0.42	0.014	1.17	1.81	98.4	<0.02	<10	250	0.37	0.23	0.34	1.46	29.6	11.4	31
YY13337		0.49	0.026	3.03	1.66	142.5	<0.02	<10	230	0.42	0.28	0.68	1.08	38.4	13.0	27
YY13338		0.50	0.008	0.46	1.73	44.4	<0.02	<10	280	0.37	0.25	0.59	0.89	32.8	14.0	29
YY13339		0.45	0.010	1.05	1.80	68.8	<0.02	<10	320	0.48	0.18	0.63	1.32	43.7	14.6	29
YY13340		0.46	0.012	2.67	1.72	63.0	<0.02	<10	330	0.41	0.21	0.78	1.53	38.0	11.1	28
YY13341		0.48	0.006	0.53	2.19	34.9	<0.02	<10	350	0.49	0.20	0.56	0.59	40.7	10.5	31
YY13342		0.36	0.012	1.33	2.45	44.5	<0.02	<10	410	0.67	0.22	0.50	1.90	71.6	15.6	29
YY13343		0.33	0.010	1.41	1.99	53.1	<0.02	<10	410	0.46	0.19	0.79	3.49	51.2	14.3	28
YY13344		0.38	0.010	0.87	1.55	56.4	<0.02	<10	330	0.38	0.19	0.64	1.89	34.4	14.6	26
YY13345		0.47	0.009	0.36	2.10	33.3	<0.02	<10	400	0.50	0.26	0.95	0.44	37.9	12.0	29
YY13346		0.39	0.011	1.08	1.61	96.7	<0.02	<10	380	0.48	0.22	0.57	3.80	49.5	19.7	27
YY13347		0.54	0.009	0.44	1.36	22.8	<0.02	<10	410	0.46	0.27	0.69	2.49	48.6	13.3	26
YY13348		0.56	0.004	0.40	1.77	20.1	<0.02	<10	240	0.33	0.26	0.31	0.51	40.7	12.1	28
YY13349		0.46	0.007	0.30	1.53	26.7	<0.02	<10	240	0.28	0.52	0.30	0.58	34.0	12.7	24
YY13350		0.48	0.006	0.36	1.51	36.5	<0.02	<10	220	0.27	0.26	0.28	0.47	27.3	7.7	23
YY13351		0.47	0.005	0.46	1.54	48.9	<0.02	<10	180	0.24	0.23	0.19	0.55	21.5	8.0	24



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Page: 6 - B
 Total # Pages: 8 (A - D)
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 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	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
YY13311		3.10	16.9	2.63	6.60	0.08	0.13	0.07	0.035	0.10	26.6	14.4	0.63	219	0.66	0.02
YY13312		2.74	14.1	3.06	5.31	0.08	0.05	0.10	0.031	0.09	26.0	10.2	0.46	885	1.24	0.02
YY13313		4.99	22.1	3.07	6.71	0.11	0.05	0.09	0.037	0.12	56.6	14.8	0.52	688	1.50	0.02
YY13314		2.74	11.5	2.76	5.04	0.06	0.06	0.05	0.027	0.08	20.1	10.1	0.52	1410	1.55	0.02
YY13315		2.67	14.0	3.00	5.70	0.06	0.04	0.05	0.034	0.09	19.0	12.5	0.54	1720	1.17	0.02
YY13317		3.31	17.4	2.71	5.41	0.06	0.04	0.07	0.046	0.10	19.8	10.7	0.50	886	3.89	0.02
YY13318		4.26	30.8	3.02	6.25	0.07	0.03	0.16	0.106	0.12	23.9	11.8	0.49	825	3.77	0.02
YY13319		3.97	26.4	2.23	6.50	<0.05	<0.02	0.14	0.120	0.09	12.2	9.2	0.38	774	3.67	0.02
YY13320		3.84	17.7	2.57	7.57	<0.05	<0.02	0.07	0.162	0.10	14.9	12.4	0.48	731	7.17	0.02
YY13321		4.29	15.6	3.25	6.51	0.05	<0.02	0.16	0.195	0.07	18.1	10.7	0.40	2130	8.59	0.02
YY13322		3.85	10.5	2.09	6.30	<0.05	<0.02	0.13	0.067	0.08	12.2	9.4	0.42	1560	4.46	0.02
YY13323		3.04	12.5	2.34	5.19	0.06	0.02	0.08	0.136	0.07	19.0	8.3	0.40	1380	2.47	0.02
YY13324		3.59	12.5	2.69	6.41	0.06	0.02	0.08	0.105	0.09	16.4	12.5	0.59	1060	1.28	0.02
YY13325		4.36	15.0	3.09	6.33	0.06	0.02	0.15	0.181	0.10	21.9	12.6	0.60	2150	1.68	0.02
YY13326		3.06	12.8	3.09	5.28	0.06	0.03	0.04	0.113	0.12	14.1	11.5	0.63	864	1.02	0.02
YY13327		3.08	16.6	3.14	6.31	0.05	0.02	0.08	0.085	0.11	15.2	9.7	0.58	1410	1.45	0.02
YY13328		3.60	13.0	2.54	6.25	0.06	0.02	0.11	0.161	0.08	14.8	12.2	0.59	677	0.92	0.02
YY13329		2.99	15.7	3.12	5.99	0.06	0.03	0.06	0.131	0.11	16.0	12.1	0.68	1060	1.34	0.02
YY13330		3.58	15.1	3.49	6.48	0.06	0.03	0.07	0.090	0.12	15.6	12.4	0.67	2800	1.24	0.02
YY13331		3.12	16.2	3.34	6.51	0.07	0.04	0.04	0.052	0.12	14.0	14.1	0.75	815	1.18	0.02
YY13332		2.85	16.4	3.46	6.31	0.06	0.05	0.06	0.073	0.14	16.1	12.0	0.70	1300	1.28	0.03
YY13333		2.58	22.2	3.19	7.01	0.09	0.05	0.06	0.043	0.08	19.5	10.8	0.64	1890	1.40	0.02
YY13334		2.78	16.5	2.99	7.40	0.06	0.03	0.07	0.066	0.10	17.7	12.0	0.62	768	1.21	0.02
YY13335		1.91	19.6	2.58	6.06	0.05	<0.02	0.08	0.058	0.05	14.5	7.4	0.36	760	1.18	0.02
YY13336		3.18	15.8	2.91	5.84	0.05	0.02	0.09	0.058	0.06	15.7	9.2	0.45	1020	0.93	0.02
YY13337		3.36	17.9	2.85	6.07	0.06	0.03	0.13	0.036	0.08	20.4	10.9	0.53	1520	1.30	0.02
YY13338		3.14	17.0	2.88	6.08	0.07	0.04	0.04	0.027	0.09	16.8	12.3	0.61	1400	1.16	0.02
YY13339		3.06	19.7	3.26	6.03	0.07	0.03	0.05	0.030	0.07	22.5	12.1	0.56	1770	1.18	0.02
YY13340		3.43	16.0	2.55	5.88	0.06	0.02	0.08	0.038	0.08	24.4	10.5	0.51	1240	0.93	0.02
YY13341		4.38	17.7	3.12	7.13	0.06	0.02	0.07	0.032	0.09	22.8	13.7	0.62	761	1.11	0.02
YY13342		3.21	18.6	3.63	7.96	0.09	0.03	0.14	0.050	0.12	38.8	15.1	0.57	2650	1.31	0.02
YY13343		2.17	16.0	2.95	6.59	0.06	0.02	0.11	0.040	0.09	23.0	11.6	0.53	3730	1.41	0.02
YY13344		1.87	14.8	2.83	5.22	0.05	0.02	0.09	0.035	0.07	17.0	9.5	0.50	2810	2.59	0.02
YY13345		1.71	21.1	3.19	6.72	0.08	0.07	0.07	0.042	0.07	22.0	13.2	0.67	907	1.20	0.02
YY13346		2.62	18.2	2.93	5.58	0.07	0.02	0.09	0.049	0.07	21.8	9.9	0.42	5040	2.85	0.02
YY13347		1.81	18.4	2.74	4.51	0.05	0.04	0.09	0.077	0.07	17.3	8.3	0.37	6310	1.65	0.02
YY13348		2.67	12.3	2.42	6.34	0.05	0.02	0.10	0.038	0.06	21.5	11.7	0.45	617	0.81	0.02
YY13349		2.96	10.8	2.38	5.64	0.05	<0.02	0.09	0.030	0.06	17.4	9.9	0.44	1520	0.92	0.02
YY13350		2.58	10.3	2.61	5.63	<0.05	0.02	0.07	0.028	0.07	15.7	8.8	0.45	759	1.49	0.02
YY13351		2.50	9.7	2.29	5.96	<0.05	<0.02	0.05	0.025	0.05	12.6	8.3	0.37	662	1.55	0.02



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Page: 6 - C
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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	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
YY13311		2.09	17.4	430	32.5	24.8	<0.001	0.02	2.13	6.7	0.3	0.8	25.7	<0.01	0.03	17.4
YY13312		1.30	14.5	740	35.9	17.6	<0.001	0.05	2.61	5.5	0.4	0.6	38.9	<0.01	0.03	6.6
YY13313		1.15	21.2	570	32.4	23.0	<0.001	0.05	2.94	6.3	0.8	0.6	50.7	<0.01	0.04	6.5
YY13314		1.17	14.2	660	46.8	16.9	<0.001	0.03	3.75	4.4	<0.2	0.8	31.7	<0.01	0.02	6.5
YY13315		1.19	17.4	590	54.3	17.2	<0.001	0.03	3.35	5.0	0.4	0.6	23.2	<0.01	0.02	7.0
YY13317		0.93	17.6	580	104.0	17.3	<0.001	0.03	6.16	4.8	0.3	0.6	29.5	<0.01	0.01	5.3
YY13318		0.81	20.2	890	172.5	20.8	<0.001	0.06	11.90	6.0	0.7	0.8	30.2	<0.01	0.03	3.3
YY13319		0.66	12.6	700	215	21.1	<0.001	0.06	9.46	2.3	0.5	1.0	25.1	<0.01	0.03	0.8
YY13320		0.88	15.4	620	93.7	22.2	<0.001	0.05	5.47	3.4	0.4	0.9	32.3	<0.01	0.03	1.5
YY13321		0.87	13.7	720	135.0	19.8	<0.001	0.05	6.78	3.9	0.6	0.8	21.0	<0.01	0.03	2.2
YY13322		0.69	11.6	620	84.8	17.9	<0.001	0.06	4.35	3.1	0.3	0.8	26.9	<0.01	0.02	1.0
YY13323		0.83	12.1	640	72.5	17.7	<0.001	0.05	6.21	4.0	0.3	0.7	27.4	<0.01	0.03	2.8
YY13324		1.13	17.1	750	57.0	19.2	<0.001	0.05	2.84	5.9	0.4	0.8	28.0	<0.01	0.02	3.5
YY13325		1.01	18.8	790	102.5	23.9	<0.001	0.05	5.11	6.6	0.5	0.8	37.1	<0.01	0.03	4.6
YY13326		1.27	16.8	780	38.5	17.2	<0.001	0.03	2.97	5.2	0.3	0.7	25.0	<0.01	0.03	5.6
YY13327		1.09	16.2	1040	42.0	24.1	<0.001	0.08	2.95	4.6	0.4	0.8	35.4	<0.01	0.03	1.9
YY13328		1.08	16.6	760	59.2	19.8	<0.001	0.07	3.07	5.2	0.5	0.8	32.1	<0.01	0.01	2.5
YY13329		1.28	18.9	700	49.9	20.4	<0.001	0.06	8.88	5.8	0.3	0.8	39.4	<0.01	0.03	3.9
YY13330		1.10	17.4	910	87.7	24.4	<0.001	0.07	5.77	6.8	0.5	0.8	32.8	<0.01	0.04	4.3
YY13331		1.44	18.3	670	37.0	22.7	<0.001	0.05	1.63	6.1	0.5	0.8	31.1	<0.01	0.02	4.5
YY13332		1.84	16.5	750	62.8	24.0	<0.001	0.08	1.76	6.4	0.4	0.8	49.8	<0.01	0.03	4.8
YY13333		1.36	17.8	880	53.0	16.5	<0.001	0.09	2.86	5.4	0.3	0.7	46.2	<0.01	0.04	2.7
YY13334		1.29	18.5	620	51.4	18.2	<0.001	0.05	1.91	5.5	0.4	1.0	30.3	<0.01	0.04	3.7
YY13335		0.95	12.3	640	117.0	8.2	<0.001	0.06	6.54	3.5	0.4	0.7	39.0	<0.01	0.02	1.3
YY13336		0.93	15.9	800	85.9	14.7	<0.001	0.05	2.50	5.2	0.6	0.6	22.7	<0.01	0.03	2.3
YY13337		1.05	16.1	820	191.5	17.5	<0.001	0.06	14.05	6.4	0.4	0.6	38.7	<0.01	0.03	3.5
YY13338		1.19	20.3	850	61.3	18.5	<0.001	0.05	2.95	5.8	0.4	0.6	33.9	<0.01	0.02	5.3
YY13339		1.05	19.7	800	94.3	17.7	<0.001	0.06	3.20	6.4	0.2	0.6	35.9	<0.01	0.03	3.4
YY13340		0.85	16.7	930	99.3	23.7	<0.001	0.08	6.45	5.1	0.4	0.6	46.5	<0.01	0.02	1.9
YY13341		1.07	17.2	880	39.1	22.7	<0.001	0.08	3.53	6.0	0.5	0.6	39.2	<0.01	0.03	2.6
YY13342		1.37	18.6	710	72.4	26.8	<0.001	0.06	1.76	9.1	0.4	0.9	37.7	<0.01	0.03	6.8
YY13343		1.00	17.8	600	87.8	17.6	<0.001	0.05	1.89	5.6	0.3	0.7	45.2	<0.01	0.03	3.8
YY13344		0.92	15.2	810	68.6	16.9	<0.001	0.06	3.64	4.6	0.4	0.5	37.6	<0.01	0.03	3.9
YY13345		1.08	20.0	800	17.5	14.4	<0.001	0.05	1.12	7.6	0.3	0.7	58.5	<0.01	0.04	4.4
YY13346		0.72	16.9	800	88.2	22.0	<0.001	0.07	4.06	4.3	0.3	0.5	38.9	<0.01	0.05	2.4
YY13347		0.57	18.1	1040	28.5	12.6	<0.001	0.08	1.61	4.2	0.7	0.4	46.3	<0.01	0.03	3.4
YY13348		0.85	16.2	600	28.0	18.6	<0.001	0.04	0.79	5.5	0.6	0.6	23.1	<0.01	0.02	5.2
YY13349		0.81	13.7	620	27.2	13.8	<0.001	0.04	1.04	4.8	0.3	0.5	22.9	<0.01	0.02	3.5
YY13350		0.86	12.9	680	33.2	15.9	<0.001	0.03	1.50	3.7	0.3	0.6	19.6	<0.01	0.02	3.2
YY13351		0.79	11.4	470	46.8	10.3	<0.001	0.04	1.74	2.9	0.4	0.7	16.3	<0.01	0.02	1.8



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Page: 6 - D
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13311		0.115	0.34	4.84	67	0.29	10.90	95	6.1
YY13312		0.065	0.26	3.25	63	0.26	13.50	91	1.9
YY13313		0.055	0.30	4.99	60	0.20	22.5	116	2.0
YY13314		0.081	0.32	1.61	60	0.21	7.27	111	2.3
YY13315		0.075	0.29	2.16	61	0.21	5.58	138	1.8
YY13317		0.058	0.21	2.95	55	0.26	8.44	226	1.3
YY13318		0.041	0.24	4.57	55	0.22	13.20	513	0.8
YY13319		0.037	0.26	3.35	46	0.31	3.80	446	<0.5
YY13320		0.050	0.23	1.83	63	0.34	4.20	412	<0.5
YY13321		0.039	0.36	2.70	68	0.40	7.49	248	<0.5
YY13322		0.048	0.30	1.61	53	0.29	3.60	253	<0.5
YY13323		0.055	0.27	2.40	53	0.32	8.64	240	0.5
YY13324		0.082	0.28	2.44	58	0.32	7.46	259	0.8
YY13325		0.063	0.39	4.21	63	0.33	11.80	387	0.8
YY13326		0.117	0.20	1.88	71	0.68	6.33	243	1.3
YY13327		0.087	0.21	2.48	76	0.73	7.26	201	0.8
YY13328		0.075	0.27	2.78	62	0.26	8.55	270	0.7
YY13329		0.102	0.23	2.68	70	0.30	7.58	362	1.3
YY13330		0.098	0.30	2.96	81	0.29	7.21	342	0.9
YY13331		0.126	0.20	2.38	80	0.39	7.01	237	1.4
YY13332		0.134	0.27	2.95	85	0.41	9.10	236	1.7
YY13333		0.089	0.24	3.27	76	0.45	13.50	145	1.5
YY13334		0.086	0.19	3.24	71	0.31	8.26	253	1.0
YY13335		0.042	0.22	2.85	63	0.31	7.76	173	0.5
YY13336		0.055	0.26	3.79	65	0.35	8.65	193	0.5
YY13337		0.076	0.29	5.01	64	0.32	11.05	176	0.9
YY13338		0.087	0.26	3.08	68	0.51	10.50	139	1.2
YY13339		0.069	0.30	4.26	68	0.40	14.50	156	1.0
YY13340		0.048	0.30	5.12	58	0.34	15.85	180	0.6
YY13341		0.063	0.28	5.07	71	0.49	12.95	121	0.7
YY13342		0.067	0.30	6.20	78	0.21	16.15	196	0.7
YY13343		0.058	0.23	4.16	67	0.21	10.60	194	0.5
YY13344		0.063	0.18	2.95	61	0.25	8.89	165	0.8
YY13345		0.061	0.15	4.51	68	0.20	15.95	86	2.9
YY13346		0.045	0.24	4.13	59	0.26	13.55	206	0.5
YY13347		0.035	0.14	5.33	46	0.16	11.80	122	1.2
YY13348		0.042	0.20	4.22	57	0.22	8.79	108	0.5
YY13349		0.043	0.24	3.14	52	0.17	7.28	95	<0.5
YY13350		0.045	0.25	2.30	52	0.26	5.60	105	<0.5
YY13351		0.033	0.29	1.83	60	0.23	3.80	93	<0.5



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Page: 7 - A
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY13352		0.56	0.003	0.60	1.74	65.6	<0.02	<10	200	0.28	0.27	0.28	0.83	26.1	7.9	26
YY13353		0.48	0.007	0.54	1.72	48.5	<0.02	<10	180	0.30	0.21	0.28	0.66	26.4	5.5	27
YY13354		0.57	0.007	0.42	1.79	71.8	<0.02	<10	180	0.41	0.20	0.23	0.95	26.9	11.5	27
YY13355		0.46	0.005	0.58	1.57	55.7	<0.02	<10	170	0.28	0.20	0.25	1.09	26.1	5.5	27
YY13356		0.48	0.007	0.68	1.74	92.5	<0.02	<10	200	0.37	0.17	0.29	1.16	29.7	6.6	28
YY13357		0.46	0.009	0.88	1.67	90.0	<0.02	<10	200	0.31	0.20	0.26	1.30	27.0	5.9	29
YY13358		0.44	0.033	1.11	1.77	73.6	<0.02	<10	190	0.34	0.21	0.26	1.27	27.2	7.6	30
YY13359		0.51	0.014	1.55	1.61	116.5	<0.02	<10	220	0.39	0.20	0.26	1.87	29.8	11.1	29
YY13360		0.56	0.017	1.43	1.62	150.5	<0.02	<10	160	0.28	0.21	0.27	1.08	27.3	11.6	28
YY13361		0.50	0.020	1.43	1.79	79.7	<0.02	<10	230	0.49	0.20	0.28	1.76	39.5	8.2	31
YY13362		0.48	0.069	1.57	1.10	850	0.04	<10	180	0.61	0.20	0.36	4.68	29.8	6.5	23
YY13363		0.44	0.001	0.30	1.28	55.8	<0.02	<10	60	0.18	0.19	0.06	0.16	32.4	3.0	15
YY13364		0.45	0.029	2.31	2.31	124.5	0.02	<10	180	0.73	0.19	0.18	1.77	26.4	9.8	36
YY13365		0.49	0.077	3.96	1.44	340	0.08	<10	210	0.56	0.31	0.34	5.69	39.1	8.2	31
YY13366		0.44	0.030	1.51	1.70	88.7	0.03	<10	160	0.34	0.37	0.29	1.53	25.1	5.6	30
YY13367		0.47	0.057	3.79	1.72	109.0	0.05	<10	290	0.38	0.54	0.32	3.81	36.8	6.6	31
YY13368		0.52	0.278	7.25	1.57	801	0.27	<10	510	0.70	5.68	0.33	6.05	29.8	9.3	31
YY13369		0.59	0.056	2.41	1.69	144.0	0.05	<10	250	0.62	0.49	0.28	3.68	31.3	10.2	31
YY13370		0.45	0.065	1.29	1.39	199.5	0.03	<10	490	0.60	0.72	0.54	2.68	37.4	8.5	27
YY13371		0.43	0.032	1.64	1.94	56.0	0.03	<10	460	0.75	0.45	0.81	3.17	51.7	6.8	31
YY13372		0.40	0.015	0.81	1.29	103.0	<0.02	<10	280	0.33	0.43	0.50	6.35	27.1	6.8	26
YY13373		0.56	0.026	0.80	1.18	155.0	0.02	<10	180	0.41	0.63	0.40	1.57	26.0	6.9	28
YY13374		0.54	0.032	1.25	1.34	110.0	0.02	<10	240	0.47	0.32	0.75	6.97	36.4	8.2	29
YY13375		0.49	0.039	2.93	1.64	259	0.03	<10	240	0.48	1.06	0.46	3.74	26.7	7.6	30
YY13376		0.47	0.042	3.07	1.84	247	0.03	<10	290	0.52	0.72	0.64	2.80	25.9	10.5	32
YY13377		0.46	0.009	0.38	1.69	29.5	0.02	<10	230	0.48	0.20	0.55	0.78	29.1	10.3	32
YY13378		0.51	0.023	1.60	1.78	119.0	0.02	<10	250	0.62	0.58	0.57	3.97	44.4	11.0	31
YY13379		0.47	0.018	0.44	1.31	61.9	0.04	<10	150	0.33	0.19	0.55	1.52	24.8	8.0	27
YY13380		0.44	0.015	1.27	1.85	181.5	<0.02	<10	210	0.53	0.34	0.51	1.54	26.2	10.9	37
YY13381		0.45	0.013	1.77	1.55	106.0	<0.02	<10	170	0.34	0.44	0.48	1.18	23.8	9.6	30
YY13382		0.53	0.004	0.14	2.06	14.1	<0.02	<10	400	0.38	0.15	0.65	0.20	40.2	12.2	28
YY13383		0.59	0.007	0.14	2.18	29.1	<0.02	<10	370	0.36	0.26	0.64	0.15	27.4	16.8	28
YY13384		0.50	0.007	0.17	2.27	34.1	<0.02	<10	370	0.44	0.20	0.51	0.08	39.9	21.7	29
YY13385		0.60	0.005	0.14	2.29	23.5	<0.02	<10	350	0.40	0.16	0.50	0.09	37.6	13.1	30
YY13386		0.43	0.004	0.13	2.11	33.4	<0.02	<10	360	0.34	0.17	0.60	0.08	30.8	13.7	30
YY13387		0.52	0.004	0.09	2.21	15.7	<0.02	<10	320	0.34	0.13	0.69	0.05	27.3	9.9	27
YY13388		0.53	0.004	0.21	2.67	9.0	<0.02	<10	560	0.41	0.14	0.79	0.16	70.2	17.8	31
YY13389		0.59	0.003	0.09	2.36	7.1	<0.02	<10	310	0.30	0.13	0.38	0.09	27.6	10.6	24
YY13390		0.52	0.004	0.21	2.34	15.2	<0.02	<10	400	0.44	0.19	0.72	0.20	42.6	12.1	25
YY13391		0.46	0.003	0.07	2.49	7.3	<0.02	<10	290	0.39	0.17	0.54	0.09	31.2	10.4	20



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Page: 7 - B
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOD		0.05	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
YY13352		2.74	10.1	2.40	6.48	<0.05	0.02	0.06	0.029	0.06	14.7	11.1	0.45	1660	1.61	0.02
YY13353		2.28	12.7	2.25	5.57	<0.05	0.02	0.08	0.037	0.06	15.5	10.6	0.43	240	1.21	0.02
YY13354		2.75	11.8	3.19	5.91	0.05	0.02	0.07	0.038	0.08	15.2	9.8	0.46	1180	2.25	0.02
YY13355		2.43	13.4	2.14	5.85	<0.05	0.02	0.11	0.035	0.07	14.1	9.0	0.38	363	1.42	0.01
YY13356		2.63	14.1	2.58	6.01	0.05	0.02	0.12	0.044	0.07	16.3	11.3	0.44	413	1.80	0.02
YY13357		2.55	13.7	2.61	6.26	<0.05	0.02	0.08	0.040	0.07	14.8	9.9	0.42	414	2.49	0.02
YY13358		2.12	13.4	2.28	6.17	0.05	0.02	0.09	0.057	0.07	15.1	11.1	0.48	491	1.76	0.02
YY13359		1.81	14.2	2.46	5.49	0.05	0.02	0.08	0.059	0.06	14.9	9.0	0.39	2110	2.59	0.02
YY13360		2.22	11.8	2.50	5.39	<0.05	0.03	0.07	0.065	0.06	14.7	9.9	0.46	1180	2.15	0.02
YY13361		2.18	17.2	2.48	5.23	0.06	0.05	0.09	0.059	0.07	20.7	10.5	0.49	268	1.86	0.02
YY13362		4.74	16.1	2.85	3.39	0.06	0.05	0.05	0.118	0.08	19.2	7.4	0.37	1200	1.42	0.02
YY13363		2.77	11.0	2.04	7.97	0.05	0.02	0.02	0.020	0.05	18.8	2.5	0.12	244	2.34	0.01
YY13364		2.52	20.2	3.22	6.26	0.05	0.14	0.06	0.078	0.09	13.9	15.3	0.58	700	2.57	0.02
YY13365		2.65	33.0	2.67	4.76	0.06	0.06	0.11	0.151	0.09	20.6	9.4	0.48	626	15.65	0.02
YY13366		1.93	18.1	1.88	5.69	<0.05	0.03	0.14	0.155	0.06	13.7	11.3	0.48	178	4.90	0.02
YY13367		2.96	16.8	2.06	6.38	0.05	0.02	0.27	0.114	0.07	18.1	10.4	0.46	366	11.90	0.02
YY13368		4.28	60.7	3.54	6.06	0.05	0.02	0.40	0.406	0.19	16.3	9.3	0.39	2630	25.7	0.02
YY13369		2.44	47.0	2.48	5.13	0.05	0.03	0.25	0.267	0.07	16.1	11.0	0.49	1100	14.75	0.02
YY13370		6.25	20.3	3.27	4.54	0.05	0.02	0.10	0.325	0.11	19.6	9.9	0.40	1200	4.80	0.02
YY13371		3.64	40.6	2.08	6.20	0.11	0.04	0.18	0.196	0.07	56.0	13.5	0.48	400	4.69	0.02
YY13372		2.45	18.8	2.33	5.23	<0.05	0.02	0.11	0.095	0.08	17.8	8.4	0.33	589	4.91	0.02
YY13373		2.64	17.1	2.67	4.05	0.06	0.04	0.07	0.123	0.08	15.0	8.3	0.44	699	7.56	0.02
YY13374		2.18	29.4	2.36	4.27	0.09	0.04	0.10	0.189	0.10	24.3	10.0	0.53	883	2.58	0.03
YY13375		2.94	16.2	2.72	5.23	0.05	0.03	0.20	1.375	0.09	15.3	10.4	0.51	856	4.74	0.02
YY13376		4.05	19.8	3.03	5.77	0.06	0.03	0.12	0.526	0.08	15.7	11.8	0.57	1360	1.72	0.02
YY13377		2.56	18.8	2.71	5.55	0.06	0.03	0.07	0.044	0.07	18.3	11.2	0.58	647	1.02	0.02
YY13378		4.09	26.8	3.50	5.72	0.08	0.04	0.12	0.211	0.09	30.2	11.8	0.53	1170	1.21	0.02
YY13379		1.58	20.0	2.66	4.02	0.05	0.06	0.05	0.043	0.07	13.9	9.1	0.53	694	0.64	0.03
YY13380		3.15	17.3	3.21	6.22	0.05	0.04	0.08	0.072	0.09	13.6	13.8	0.59	1160	1.08	0.02
YY13381		2.23	19.5	3.00	4.85	0.05	0.03	0.06	0.065	0.08	12.4	10.5	0.55	1050	0.90	0.02
YY13382		3.03	16.4	3.58	7.50	0.08	0.05	0.06	0.029	0.16	20.9	18.6	0.76	686	0.87	0.02
YY13383		3.30	13.8	4.27	7.75	0.08	0.05	0.06	0.034	0.15	13.5	21.0	0.84	1180	1.06	0.02
YY13384		3.69	17.3	4.87	7.70	0.08	0.06	0.16	0.038	0.16	19.3	18.2	0.80	959	0.82	0.02
YY13385		3.49	17.1	4.01	7.90	0.09	0.11	0.11	0.036	0.26	20.2	20.4	0.98	450	0.59	0.03
YY13386		2.60	17.6	3.83	7.27	0.08	0.11	0.10	0.035	0.17	15.8	17.9	0.86	505	0.62	0.03
YY13387		2.66	13.3	3.56	7.89	0.08	0.07	0.07	0.036	0.14	14.5	19.8	0.87	311	0.38	0.03
YY13388		2.65	18.7	3.99	8.84	0.12	0.07	0.25	0.040	0.22	35.0	24.9	0.93	1520	0.63	0.03
YY13389		3.41	9.7	3.68	8.26	0.06	0.07	0.09	0.033	0.19	16.4	20.5	0.82	517	0.89	0.02
YY13390		3.09	17.1	3.53	8.80	0.07	0.03	0.16	0.041	0.18	26.2	18.2	0.75	800	1.00	0.02
YY13391		2.66	10.7	3.41	9.25	0.06	0.09	0.02	0.028	0.27	16.5	23.3	0.89	599	0.59	0.03



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Page: 7 - C
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	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
YY13352		0.92	13.9	480	55.9	15.4	<0.001	0.03	2.24	3.7	0.2	0.6	20.1	<0.01	0.02	3.8
YY13353		1.06	14.6	560	58.6	14.0	<0.001	0.03	2.14	4.1	0.2	0.7	19.7	<0.01	0.02	4.1
YY13354		1.03	15.3	690	65.7	16.1	<0.001	0.03	3.02	3.6	0.2	0.6	16.0	<0.01	0.04	4.1
YY13355		0.92	13.7	720	56.0	14.0	<0.001	0.04	2.30	3.4	0.2	0.6	19.2	<0.01	0.02	2.5
YY13356		1.17	16.3	590	71.0	14.6	<0.001	0.04	3.61	4.2	0.3	0.6	20.6	<0.01	0.03	5.3
YY13357		0.95	15.0	730	70.8	13.1	<0.001	0.05	3.27	3.6	0.4	0.6	19.9	<0.01	0.02	2.8
YY13358		0.99	17.1	570	96.4	13.8	<0.001	0.03	3.99	3.8	0.2	0.6	20.2	<0.01	0.02	4.5
YY13359		0.67	14.6	830	104.5	12.1	<0.001	0.05	5.06	3.8	0.3	0.6	19.9	<0.01	0.02	2.2
YY13360		0.97	15.8	560	129.0	12.0	<0.001	0.03	6.58	3.4	0.4	0.7	18.7	<0.01	0.03	5.0
YY13361		0.96	18.6	570	119.5	14.1	<0.001	0.02	5.34	4.8	0.3	0.5	19.0	<0.01	0.02	11.2
YY13362		0.68	14.8	520	179.0	9.1	<0.001	0.06	6.95	3.2	<0.2	0.4	28.7	<0.01	0.02	12.9
YY13363		1.06	7.1	200	33.3	9.4	<0.001	0.02	2.74	1.7	0.2	0.8	8.0	<0.01	0.03	4.8
YY13364		1.01	27.1	400	111.5	12.6	<0.001	0.03	5.52	4.6	0.3	0.7	16.6	<0.01	0.03	8.5
YY13365		0.83	17.1	680	487	12.4	<0.001	0.03	23.9	4.8	<0.2	1.3	23.7	<0.01	0.03	10.2
YY13366		1.11	16.0	520	180.0	10.3	<0.001	0.04	9.74	3.5	0.2	0.8	19.3	<0.01	0.02	5.4
YY13367		1.03	14.6	700	144.5	14.4	<0.001	0.08	14.90	4.2	0.3	1.1	22.7	<0.01	0.01	4.5
YY13368		0.59	16.4	880	286	19.4	<0.001	0.32	43.1	3.6	0.6	1.3	36.6	<0.01	0.05	3.4
YY13369		0.93	18.7	590	103.5	11.5	<0.001	0.04	15.50	4.4	0.4	0.6	22.4	<0.01	0.03	5.3
YY13370		0.60	15.8	670	77.1	15.3	<0.001	0.09	11.45	4.2	0.2	1.9	35.1	<0.01	0.04	4.5
YY13371		0.97	19.1	790	84.7	14.8	<0.001	0.09	5.81	5.7	0.4	0.6	42.3	<0.01	0.04	3.7
YY13372		0.79	14.4	680	70.0	13.9	<0.001	0.07	4.46	2.6	<0.2	0.6	34.1	<0.01	0.05	1.4
YY13373		0.86	14.8	400	109.0	11.5	<0.001	0.04	7.80	4.1	<0.2	0.5	25.7	<0.01	0.06	6.4
YY13374		0.86	20.9	820	95.3	12.7	<0.001	0.04	5.57	5.5	0.4	0.5	41.7	<0.01	0.03	4.4
YY13375		0.84	15.0	780	151.5	16.7	<0.001	0.05	10.60	4.0	0.2	0.6	29.0	<0.01	0.03	2.6
YY13376		0.66	16.5	860	149.0	16.7	<0.001	0.06	6.26	5.3	0.3	0.7	37.6	<0.01	0.03	2.3
YY13377		1.00	18.7	660	40.5	13.4	<0.001	0.06	1.51	5.6	<0.2	0.6	33.3	<0.01	0.02	3.2
YY13378		0.85	19.1	800	106.5	17.8	<0.001	0.05	3.90	7.7	0.6	0.7	34.2	<0.01	0.06	5.0
YY13379		0.89	17.3	530	46.9	8.3	<0.001	0.03	2.00	4.6	0.2	0.4	28.6	<0.01	0.03	4.4
YY13380		0.88	18.6	850	131.0	18.5	<0.001	0.06	4.89	5.0	<0.2	0.7	30.9	<0.01	0.03	3.7
YY13381		0.96	16.5	500	143.5	13.6	<0.001	0.04	4.31	4.6	<0.2	0.6	26.6	<0.01	0.03	3.6
YY13382		2.22	14.8	690	9.7	35.4	<0.001	0.04	0.52	7.3	0.2	0.8	41.5	<0.01	0.02	8.3
YY13383		1.92	14.1	800	10.4	32.3	<0.001	0.04	0.67	6.6	0.2	0.9	37.3	<0.01	0.02	7.8
YY13384		2.11	14.6	790	10.8	29.9	<0.001	0.03	2.06	7.8	0.2	0.9	31.6	<0.01	0.03	9.5
YY13385		2.41	14.9	710	10.6	42.8	<0.001	0.02	0.79	8.0	0.3	0.9	28.8	<0.01	0.02	12.6
YY13386		2.32	15.8	680	10.1	31.6	<0.001	0.02	1.13	7.3	0.4	0.8	35.6	<0.01	0.02	7.6
YY13387		2.24	13.1	750	10.9	25.3	<0.001	0.03	0.74	7.0	0.2	0.9	34.0	<0.01	0.01	8.2
YY13388		2.22	17.0	670	11.4	40.2	<0.001	0.03	0.50	13.7	0.4	1.0	46.5	<0.01	0.03	13.3
YY13389		1.94	11.1	430	8.4	33.5	<0.001	0.01	0.35	6.9	<0.2	1.0	22.6	<0.01	0.02	8.4
YY13390		1.59	13.1	840	9.2	33.4	<0.001	0.04	0.76	9.6	0.2	1.0	43.4	<0.01	0.01	7.7
YY13391		2.41	11.0	460	9.1	33.4	<0.001	0.01	0.33	5.9	<0.2	1.0	36.7	0.02	0.02	11.6



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Page: 7 - D
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13352		0.039	0.31	1.58	60	0.23	4.46	134	0.5
YY13353		0.047	0.30	2.38	54	0.25	5.94	123	0.8
YY13354		0.059	0.37	2.28	65	0.35	5.00	139	0.6
YY13355		0.044	0.34	2.52	47	0.29	5.33	118	0.5
YY13356		0.052	0.29	2.46	56	0.30	5.86	157	1.0
YY13357		0.051	0.27	2.13	56	0.29	5.78	166	0.7
YY13358		0.055	0.25	2.07	48	0.20	5.16	226	0.8
YY13359		0.043	0.25	3.19	49	0.17	5.99	215	0.5
YY13360		0.058	0.26	1.87	49	0.23	4.62	230	1.2
YY13361		0.061	0.23	4.60	54	0.22	10.05	269	2.3
YY13362		0.048	0.14	5.01	41	0.21	11.50	555	1.9
YY13363		0.039	0.33	0.82	68	0.19	2.45	60	1.1
YY13364		0.065	0.19	2.50	63	0.24	5.16	358	5.7
YY13365		0.071	0.23	3.43	51	0.28	11.85	566	2.9
YY13366		0.067	0.23	1.77	46	0.46	4.54	363	1.4
YY13367		0.059	0.29	4.38	46	0.41	7.59	407	1.0
YY13368		0.037	0.38	9.33	53	0.39	10.55	549	0.5
YY13369		0.063	0.23	7.83	53	0.40	10.60	442	1.0
YY13370		0.039	0.20	3.43	53	0.47	9.11	447	0.6
YY13371		0.046	0.20	9.30	55	0.92	34.0	345	1.3
YY13372		0.046	0.15	2.12	54	1.08	7.38	296	0.5
YY13373		0.074	0.15	2.52	56	1.40	5.37	355	1.7
YY13374		0.075	0.19	6.41	52	0.86	16.55	492	1.7
YY13375		0.056	0.22	2.35	55	0.54	6.59	570	0.9
YY13376		0.047	0.23	3.81	61	0.28	9.80	525	0.8
YY13377		0.076	0.19	4.11	65	1.99	12.95	140	1.2
YY13378		0.049	0.25	7.50	64	0.31	23.3	616	1.2
YY13379		0.091	0.15	2.08	62	0.24	8.39	211	2.0
YY13380		0.064	0.20	3.45	68	0.25	7.14	314	1.2
YY13381		0.086	0.17	2.47	69	2.81	5.62	218	1.0
YY13382		0.159	0.30	4.77	91	0.16	9.95	79	1.7
YY13383		0.155	0.29	3.55	102	0.15	7.90	88	1.7
YY13384		0.160	0.31	3.73	101	0.28	9.24	75	2.3
YY13385		0.212	0.40	3.49	101	0.15	9.11	90	4.2
YY13386		0.179	0.30	2.23	92	0.14	8.26	79	4.1
YY13387		0.173	0.29	1.60	105	0.15	6.07	73	2.4
YY13388		0.193	0.36	3.95	103	0.17	23.3	84	2.6
YY13389		0.167	0.29	1.18	94	0.16	7.52	80	2.1
YY13390		0.110	0.28	2.65	89	0.20	13.40	86	0.9
YY13391		0.212	0.27	1.24	90	0.19	7.16	75	2.7



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Page: 8 - A
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY13392		0.46	0.004	0.18	2.20	6.5	<0.02	<10	260	0.32	0.16	0.33	0.26	34.6	11.7	27
YY13393		0.39	0.005	0.40	2.20	18.8	<0.02	<10	380	0.38	0.24	0.28	0.38	50.1	42.9	36
YY13394		0.49	0.005	0.19	2.21	14.4	<0.02	<10	240	0.43	0.22	0.34	0.19	44.1	11.4	28
YY13395		0.60	0.006	0.22	2.45	16.2	<0.02	<10	240	0.54	0.17	0.45	0.24	37.3	26.2	31
YY13396		0.49	0.006	0.24	2.14	26.1	<0.02	<10	190	0.38	0.21	0.31	0.25	30.5	8.3	27
YY13397		0.45	0.005	0.33	1.89	32.0	<0.02	<10	200	0.28	0.22	0.34	0.26	23.7	11.4	27
YY13398		0.49	0.006	0.19	1.73	25.5	<0.02	<10	150	0.21	0.14	0.34	0.24	22.7	6.3	27
YY13399		0.49	0.005	0.26	1.72	32.3	<0.02	<10	160	0.21	0.15	0.40	0.31	23.1	6.3	29
YY13400		0.51	0.007	0.54	1.99	54.5	<0.02	<10	170	0.34	0.22	0.36	0.55	26.1	6.8	32



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Page: 8 - B
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	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
YY13392		1.65	12.5	3.01	8.55	0.06	0.04	0.04	0.026	0.14	20.6	15.4	0.72	721	0.94	0.03
YY13393		3.70	16.1	4.14	8.21	0.05	<0.02	0.13	0.042	0.09	20.1	11.8	0.45	8360	1.63	0.02
YY13394		2.91	14.1	3.59	7.48	0.07	0.04	0.09	0.033	0.11	25.7	16.8	0.66	374	0.69	0.02
YY13395		2.35	15.2	3.71	7.86	0.06	0.02	0.04	0.035	0.14	19.5	17.8	0.64	1920	1.05	0.02
YY13396		2.43	14.6	3.18	7.01	0.06	0.03	0.04	0.030	0.13	16.2	14.5	0.65	270	0.66	0.02
YY13397		2.57	11.3	3.30	6.56	0.06	0.02	0.06	0.025	0.10	13.4	11.1	0.57	725	1.68	0.02
YY13398		1.51	9.8	2.55	5.72	0.05	0.02	0.04	0.023	0.07	12.1	10.3	0.52	227	0.83	0.02
YY13399		1.32	10.4	2.49	5.83	<0.05	0.03	0.04	0.025	0.07	11.8	11.0	0.55	212	0.69	0.02
YY13400		1.34	16.8	3.19	5.92	0.05	0.04	0.06	0.032	0.07	13.0	11.8	0.55	227	0.78	0.02

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Page: 8 - C
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS	WH20174527
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Sample Description	Method	Analyte	Units	LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41			
					Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
					ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.05	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
YY13392					1.88	13.2	420	9.9	25.2	<0.001	0.02	0.30	5.6	<0.2	1.6	28.4	<0.01	0.03	7.1
YY13393					0.83	13.3	1140	26.0	21.6	<0.001	0.08	0.60	5.9	0.5	0.8	27.6	<0.01	0.05	3.1
YY13394					1.94	15.6	600	18.4	23.1	<0.001	0.03	0.64	7.6	0.2	1.0	24.2	<0.01	0.02	11.8
YY13395					1.60	14.8	600	19.7	22.6	<0.001	0.03	0.69	5.7	0.3	0.8	34.6	0.01	0.02	6.7
YY13396					1.76	15.2	650	23.5	25.1	<0.001	0.02	0.81	5.9	0.3	0.8	20.5	<0.01	0.02	6.5
YY13397					1.23	12.9	910	18.1	18.8	<0.001	0.04	0.81	4.3	0.2	0.7	22.4	<0.01	0.03	2.0
YY13398					1.32	13.3	690	26.8	11.7	<0.001	0.03	0.87	3.5	<0.2	0.6	20.4	<0.01	0.02	2.8
YY13399					1.28	15.1	670	33.5	11.8	<0.001	0.03	1.28	3.9	<0.2	0.5	24.6	<0.01	0.02	3.8
YY13400					1.34	16.5	620	60.1	11.2	<0.001	0.03	2.58	4.5	0.2	0.6	22.9	<0.01	0.02	5.4



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Page: 8 - D
 Total # Pages: 8 (A - D)
 Plus Appendix Pages
 Finalized Date: 23-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

	Method Analyte Units LOD	ME-MS41 Ti %	ME-MS41 Tl ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
Sample Description		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13392		0.140	0.21	1.58	80	0.17	7.79	78	1.1
YY13393		0.055	0.45	4.17	83	0.17	8.42	84	<0.5
YY13394		0.107	0.29	5.01	81	0.20	11.75	82	1.4
YY13395		0.116	0.26	2.52	77	0.21	8.00	89	1.2
YY13396		0.118	0.26	2.28	73	0.20	7.39	87	1.2
YY13397		0.090	0.22	1.47	81	0.24	5.12	89	0.6
YY13398		0.091	0.17	0.95	57	0.23	4.37	84	0.8
YY13399		0.092	0.16	0.94	62	0.26	4.80	95	1.2
YY13400		0.088	0.19	1.49	69	0.18	5.09	115	2.0



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 23-SEP-2020
Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174527

	CERTIFICATE COMMENTS
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. Applies to Method: LOG-22 SCR-41 WEI-21</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Applies to Method: Au-ICP21 ME-MS41</p>



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Page: 1
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
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CERTIFICATE WH20174530

Project: Idaho Creek

This report is for 158 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13-AUG-2020.

The following have access to data associated with this certificate:

ANDREW CARNE	ADAM COULTER
--------------	--------------

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
ME-MS41	Ultra Trace Aqua Regia ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

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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Page: 2 - A
 Total # Pages: 5 (A - D)
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CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
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	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY13401		0.59	0.004	0.02	2.62	10.7	<0.02	<10	260	0.60	0.12	0.30	0.09	37.6	12.4	35
YY13402		0.67	0.005	0.07	2.35	7.5	<0.02	<10	260	0.40	0.08	0.38	0.15	27.4	9.4	34
YY13403		0.62	0.006	0.07	2.17	7.2	<0.02	<10	340	0.44	0.09	0.42	0.18	38.8	13.1	31
YY13404		0.57	0.005	0.05	1.95	7.2	<0.02	<10	310	0.39	0.09	0.35	0.22	27.9	12.7	28
YY13405		0.47	0.005	0.13	1.87	16.8	<0.02	<10	500	0.47	0.13	0.92	0.27	42.5	12.7	29
YY13406		0.71	0.004	0.07	2.10	15.6	<0.02	<10	280	0.49	0.14	0.47	0.11	34.1	12.3	27
YY13407		0.41	0.010	0.13	1.12	4.6	<0.02	<10	680	0.40	0.09	1.32	0.67	42.2	15.6	18
YY13408		0.43	0.004	0.10	2.28	8.2	<0.02	<10	420	0.59	0.15	0.55	0.21	36.9	12.6	31
YY13409		0.39	0.004	0.13	1.94	14.0	<0.02	<10	480	0.60	0.16	0.63	0.31	49.2	17.2	25
YY13410		0.38	0.008	0.28	2.07	23.4	<0.02	<10	410	0.54	0.19	0.47	0.36	31.7	11.7	29
YY13411		0.43	0.006	0.08	2.09	28.3	<0.02	<10	430	0.52	0.32	0.57	0.13	26.0	11.9	29
YY13412		0.44	0.016	0.36	1.76	12.5	<0.02	<10	510	0.52	0.16	0.78	0.58	53.3	13.8	29
YY13413		0.46	0.010	0.39	2.18	24.0	<0.02	<10	350	0.54	0.19	0.57	0.49	42.8	12.4	30
YY13414		0.40	0.021	3.08	1.72	57.2	<0.02	<10	380	0.63	0.27	0.55	2.91	55.0	11.0	28
YY13415		0.45	0.021	1.90	1.58	45.8	<0.02	<10	300	0.47	0.20	0.91	1.95	36.0	8.8	28
YY13416		0.43	0.017	2.10	2.02	95.9	<0.02	<10	300	0.58	0.25	0.85	1.70	36.7	12.5	30
YY13417		0.42	0.008	0.38	1.28	44.4	<0.02	<10	140	0.32	0.21	0.24	1.48	26.7	10.1	25
YY13418		0.42	0.024	1.06	1.82	207	0.02	<10	240	0.51	0.28	0.95	0.92	40.6	11.9	27
YY13419		0.61	0.308	5.46	1.50	347	0.26	<10	160	0.66	0.48	0.13	0.71	32.1	7.1	23
YY13420		0.56	0.007	0.57	1.75	37.9	<0.02	<10	130	0.49	0.25	0.25	0.38	21.9	9.2	29
YY13421		0.46	0.017	1.14	2.30	72.5	<0.02	<10	120	0.59	0.18	0.18	0.73	26.5	7.9	31
YY13422		0.61	0.229	2.80	0.84	351	0.18	<10	610	1.12	0.27	0.43	3.07	51.1	21.0	15
YY13423		0.56	0.009	0.32	1.96	18.8	<0.02	<10	260	0.59	0.22	0.38	0.21	39.1	12.1	37
YY13424		0.37	NSS	0.17	0.51	4.1	<0.02	<10	60	0.09	0.13	0.07	0.24	10.20	1.7	14
YY13425		0.73	0.006	0.08	2.03	12.7	<0.02	<10	190	0.48	0.34	0.32	0.16	43.8	12.0	34
YY13426		0.69	0.004	0.07	1.99	9.4	<0.02	<10	250	0.68	0.25	0.33	0.12	44.3	8.6	27
YY13427		0.63	0.004	0.18	2.78	7.7	<0.02	<10	320	0.65	0.33	0.35	0.13	48.7	10.6	35
YY13428		0.34	0.011	0.20	1.28	3.7	<0.02	<10	550	0.65	0.13	1.04	0.48	117.0	9.7	14
YY13429		0.63	0.004	0.13	2.38	5.0	0.02	<10	300	0.47	0.20	0.42	0.13	33.9	12.3	30
YY13430		0.19	0.012	0.24	1.16	1.6	<0.02	<10	410	0.39	0.09	0.69	0.54	46.8	4.0	20
YY13431		0.63	0.008	0.05	2.47	7.7	<0.02	<10	140	0.48	0.12	0.22	0.19	25.7	11.2	29
YY13432		0.37	0.011	0.18	1.07	2.3	<0.02	<10	640	0.41	0.11	1.15	0.65	52.9	8.8	17
YY13433		0.47	0.004	0.14	2.23	6.0	<0.02	<10	550	0.59	0.22	0.78	0.52	62.9	11.6	29
YY13434		0.48	0.003	0.09	2.20	7.1	<0.02	<10	340	0.44	0.25	0.43	0.12	41.2	11.5	25
YY13435		0.61	0.003	0.14	2.39	11.3	<0.02	<10	330	0.71	0.19	0.31	0.21	82.5	10.0	26
YY13436		0.69	0.007	0.18	2.24	86.0	<0.02	<10	340	0.58	0.16	0.39	0.25	58.9	12.8	29
YY13437		0.67	0.008	0.09	1.68	21.0	0.02	<10	190	0.37	0.36	0.37	0.19	26.8	9.5	29
YY13438		0.40	0.006	0.19	2.26	19.2	<0.02	<10	300	0.50	0.18	0.38	0.12	44.2	11.0	33
YY13439		0.66	0.004	0.10	2.34	16.7	<0.02	<10	290	0.46	0.22	0.35	0.14	37.3	12.7	32
YY13440		0.35	0.015	0.39	1.24	4.7	<0.02	<10	490	0.37	0.11	0.39	0.43	30.7	8.9	25



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Page: 2 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

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CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOD		0.05	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
YY13401		2.84	26.8	3.63	7.32	0.07	0.03	0.03	0.033	0.11	17.4	15.9	0.76	558	0.79	0.02
YY13402		1.66	22.0	3.19	5.94	0.06	0.02	0.02	0.024	0.09	13.5	13.7	0.66	489	0.71	0.02
YY13403		2.14	25.0	3.52	6.50	0.07	0.03	0.04	0.025	0.14	18.6	14.2	0.72	802	1.10	0.03
YY13404		2.11	18.9	3.37	6.27	0.06	0.02	0.03	0.031	0.10	12.9	14.7	0.68	677	1.04	0.03
YY13405		2.80	25.1	3.23	6.89	0.08	0.05	0.07	0.029	0.15	24.2	15.4	0.75	1030	1.31	0.02
YY13406		3.07	16.3	4.96	7.70	0.07	0.03	0.04	0.034	0.13	17.0	14.6	0.70	443	1.27	0.02
YY13407		1.70	30.8	2.29	3.66	0.06	0.02	0.08	0.023	0.06	20.7	4.2	0.43	4150	1.37	0.02
YY13408		5.42	20.4	3.43	8.37	0.06	0.02	0.06	0.040	0.08	19.6	16.0	0.68	659	2.51	0.02
YY13409		4.61	22.8	3.92	6.96	0.07	0.02	0.06	0.039	0.10	24.9	12.4	0.66	1870	2.63	0.02
YY13410		5.50	19.0	3.20	7.23	0.05	0.02	0.09	0.032	0.07	18.9	13.1	0.53	1220	2.21	0.02
YY13411		5.91	28.2	3.40	7.93	<0.05	0.02	0.03	0.033	0.06	13.9	15.6	0.67	908	2.54	0.02
YY13412		4.84	32.8	2.54	6.18	0.08	0.03	0.09	0.031	0.10	29.3	11.8	0.55	2380	1.55	0.02
YY13413		5.75	17.1	3.46	7.30	0.07	0.03	0.07	0.036	0.14	24.4	15.4	0.66	1040	1.73	0.02
YY13414		4.04	26.4	2.74	6.14	0.06	0.03	0.15	0.030	0.07	24.1	9.9	0.45	4740	1.20	0.02
YY13415		2.94	23.2	2.17	5.76	0.06	0.04	0.08	0.031	0.08	21.2	10.8	0.49	1800	0.81	0.02
YY13416		3.39	31.6	3.16	6.88	0.06	0.02	0.14	0.035	0.09	20.8	13.9	0.59	1360	1.81	0.03
YY13417		2.28	18.2	2.75	6.54	<0.05	<0.02	0.06	0.024	0.08	12.5	9.3	0.39	818	1.54	0.02
YY13418		3.09	27.5	3.09	6.62	0.07	0.03	0.10	0.032	0.09	26.0	12.5	0.57	1280	1.54	0.02
YY13419		2.26	21.6	3.09	4.44	<0.05	0.02	0.24	0.020	0.09	16.5	7.6	0.27	1140	2.65	0.01
YY13420		2.72	17.2	3.53	8.46	<0.05	0.02	0.09	0.032	0.06	10.6	13.2	0.36	768	1.96	0.01
YY13421		2.89	16.8	2.44	6.71	<0.05	0.04	0.13	0.042	0.07	12.8	13.0	0.49	583	0.93	0.01
YY13422		11.35	28.4	5.45	3.00	0.09	0.04	0.22	0.040	0.16	29.7	5.0	0.24	5910	1.94	0.02
YY13423		3.43	28.3	3.69	7.24	0.08	0.03	0.06	0.033	0.09	22.0	13.4	0.54	505	1.25	0.02
YY13424		1.67	6.4	0.94	3.72	<0.05	<0.02	0.08	0.010	0.05	5.4	1.4	0.08	69	1.63	0.02
YY13425		2.74	22.9	3.83	6.96	0.09	0.21	0.04	0.035	0.11	21.1	15.1	0.58	247	0.30	0.02
YY13426		5.70	19.1	3.33	6.19	0.06	0.03	0.07	0.035	0.14	24.0	12.7	0.50	343	0.90	0.02
YY13427		7.36	21.4	4.43	9.73	0.08	0.03	0.06	0.046	0.23	26.7	17.0	0.72	294	1.55	0.02
YY13428		1.69	30.0	1.91	4.16	0.15	0.03	0.15	0.019	0.04	78.2	3.3	0.21	2750	2.25	0.02
YY13429		3.99	16.7	3.60	9.37	0.07	0.03	0.06	0.037	0.20	19.1	18.7	0.83	664	1.72	0.02
YY13430		1.69	41.5	0.98	4.68	0.07	0.03	0.27	0.021	0.05	33.0	4.1	0.21	500	1.15	0.02
YY13431		1.46	19.8	2.96	7.00	<0.05	0.10	0.04	0.023	0.05	10.7	13.1	0.51	397	1.05	0.02
YY13432		1.11	22.1	1.37	3.25	0.11	0.04	0.18	0.022	0.04	38.2	3.3	0.25	3500	1.68	0.02
YY13433		2.85	21.2	3.05	7.06	0.11	0.03	0.12	0.037	0.08	40.1	13.4	0.56	1560	1.46	0.02
YY13434		3.49	9.8	3.30	8.44	0.07	0.04	0.08	0.035	0.17	22.1	17.5	0.77	309	1.14	0.01
YY13435		2.93	24.6	3.83	8.56	0.12	0.04	0.09	0.037	0.15	44.0	16.8	0.77	221	1.22	0.02
YY13436		3.25	23.2	3.53	7.53	0.08	0.04	0.07	0.036	0.12	32.9	18.1	0.70	657	1.14	0.02
YY13437		1.44	19.7	2.78	5.67	0.06	0.04	0.02	0.021	0.08	13.5	13.0	0.62	436	0.75	0.02
YY13438		2.48	19.8	2.67	7.85	0.06	0.03	0.09	0.031	0.06	25.3	15.4	0.62	282	1.48	0.02
YY13439		2.51	17.1	2.86	8.41	0.06	0.04	0.03	0.032	0.10	18.7	17.2	0.71	316	0.92	0.02
YY13440		0.86	14.8	1.33	4.33	<0.05	<0.02	0.18	0.021	0.03	12.3	3.6	0.13	5630	1.21	0.02



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Page: 2 - C
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CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
YY13401		1.26	25.9	710	8.9	18.6	<0.001	0.02	0.62	6.8	0.2	0.6	20.7	<0.01	0.03	3.6
YY13402		1.14	20.8	970	7.4	12.4	<0.001	0.03	0.47	4.8	0.2	0.5	21.8	<0.01	0.02	2.6
YY13403		1.24	21.2	1110	7.2	17.2	<0.001	0.03	0.47	6.0	0.2	0.6	24.6	<0.01	0.02	3.5
YY13404		1.17	20.3	890	6.9	14.9	<0.001	0.04	0.52	4.4	<0.2	0.6	21.9	<0.01	0.02	2.2
YY13405		1.71	21.0	1160	9.8	23.3	0.001	0.09	0.95	9.1	0.5	0.7	55.0	<0.01	0.04	3.5
YY13406		1.90	15.2	1200	10.0	21.6	0.001	0.05	0.90	6.1	<0.2	0.8	21.9	<0.01	0.01	5.4
YY13407		0.82	12.5	2000	3.9	10.4	<0.001	0.23	0.70	4.3	0.8	0.4	71.9	<0.01	0.05	1.2
YY13408		1.25	20.2	1020	11.3	17.8	<0.001	0.09	1.21	7.3	0.3	0.8	33.1	0.34	0.02	2.2
YY13409		1.18	17.2	1230	10.8	16.6	<0.001	0.07	1.69	8.8	0.3	0.7	36.6	<0.01	0.03	2.8
YY13410		0.93	18.0	1000	29.2	16.3	<0.001	0.06	3.04	5.3	0.4	0.6	33.1	<0.01	0.02	1.3
YY13411		0.82	18.0	1190	16.3	13.5	<0.001	0.08	2.84	4.1	<0.2	0.7	34.9	<0.01	0.04	0.9
YY13412		1.00	18.1	1340	13.7	19.6	<0.001	0.14	2.49	6.5	0.7	0.6	46.6	<0.01	0.06	1.5
YY13413		1.30	18.4	900	26.9	29.5	<0.001	0.05	2.96	9.4	0.4	0.7	34.5	<0.01	0.02	5.5
YY13414		0.69	18.6	1240	84.7	18.8	0.001	0.12	12.30	5.2	0.5	0.6	35.2	<0.01	0.04	2.1
YY13415		0.88	17.3	1040	72.1	19.4	<0.001	0.12	5.02	5.1	0.4	0.6	49.8	<0.01	0.02	2.2
YY13416		1.03	23.4	1120	91.2	20.3	0.001	0.11	5.04	5.1	0.5	0.6	53.4	<0.01	0.05	1.3
YY13417		1.08	16.0	800	45.3	14.3	<0.001	0.06	3.14	2.9	0.4	0.6	18.9	<0.01	0.03	1.3
YY13418		1.29	20.7	840	87.9	17.1	<0.001	0.09	7.44	4.9	0.2	0.6	48.0	<0.01	0.04	2.5
YY13419		0.70	14.0	520	123.5	9.5	<0.001	0.09	37.6	3.4	0.2	0.7	12.9	<0.01	0.12	5.2
YY13420		1.44	16.5	570	21.0	10.9	<0.001	0.05	3.14	3.3	0.4	0.7	19.5	<0.01	0.05	2.3
YY13421		1.09	18.5	680	30.6	8.9	<0.001	0.04	6.96	3.9	0.4	0.6	15.7	<0.01	0.02	1.9
YY13422		0.31	15.9	1000	111.5	14.3	<0.001	0.08	53.1	13.0	0.5	0.4	23.9	<0.01	0.04	11.0
YY13423		1.45	22.3	780	15.8	20.5	<0.001	0.03	2.54	9.2	<0.2	0.9	26.4	0.01	0.02	4.8
YY13424		0.56	5.5	640	5.0	5.8	<0.001	0.07	0.56	1.2	<0.2	0.6	9.4	<0.01	0.04	<0.2
YY13425		1.48	17.9	580	10.6	21.9	<0.001	0.01	1.04	9.8	<0.2	0.9	21.1	<0.01	0.05	10.6
YY13426		1.15	15.9	770	10.9	20.9	<0.001	0.02	1.15	8.6	0.4	0.7	20.4	<0.01	0.03	8.1
YY13427		1.86	17.0	1160	11.2	35.4	<0.001	0.05	0.75	11.2	0.6	1.1	20.0	<0.01	0.04	9.1
YY13428		0.53	12.5	1840	5.3	9.9	<0.001	0.22	0.66	2.7	0.8	0.3	74.2	0.01	0.04	0.5
YY13429		1.90	17.5	960	9.7	30.0	<0.001	0.06	0.51	8.3	0.2	1.1	25.0	<0.01	0.01	4.8
YY13430		0.79	8.8	1390	4.9	9.1	0.001	0.30	0.65	3.5	0.6	0.5	47.6	<0.01	0.02	0.5
YY13431		1.87	23.4	450	6.9	8.7	0.001	0.02	0.54	4.3	0.2	0.6	16.3	0.02	0.02	3.8
YY13432		0.61	10.7	1870	4.1	7.2	<0.001	0.23	0.47	2.3	0.9	0.3	77.7	0.01	0.04	0.6
YY13433		1.27	18.6	1080	8.8	17.7	<0.001	0.10	0.47	5.5	0.6	0.6	51.2	<0.01	0.04	1.5
YY13434		2.05	13.8	980	12.3	25.0	<0.001	0.03	0.89	6.8	0.2	1.0	21.7	<0.01	0.02	8.0
YY13435		2.23	13.0	950	12.4	25.2	0.001	0.05	1.51	10.3	0.3	1.0	15.5	<0.01	0.02	9.3
YY13436		1.38	21.0	990	12.8	19.8	<0.001	0.02	2.11	9.0	<0.2	0.7	24.2	<0.01	0.03	7.1
YY13437		1.40	21.0	530	8.3	11.5	<0.001	0.02	1.11	4.4	<0.2	0.5	22.7	<0.01	0.03	3.8
YY13438		1.41	20.3	960	13.4	11.8	<0.001	0.09	2.66	5.8	0.4	0.7	28.4	<0.01	0.01	2.2
YY13439		1.93	18.9	800	12.7	16.5	<0.001	0.02	1.95	6.3	0.2	0.8	19.8	<0.01	0.02	7.1
YY13440		0.44	8.3	1970	7.5	3.7	<0.001	0.24	1.21	2.0	0.5	0.4	29.2	<0.01	0.03	0.4



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Page: 2 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13401		0.118	0.21	1.48	78	0.33	10.15	66	1.1
YY13402		0.120	0.18	1.45	74	0.21	7.54	69	1.0
YY13403		0.138	0.20	1.76	83	1.48	10.70	68	1.1
YY13404		0.121	0.20	1.30	80	1.36	6.11	75	0.8
YY13405		0.121	0.29	3.82	74	0.34	17.70	74	1.7
YY13406		0.116	0.27	2.26	89	0.82	7.29	63	1.4
YY13407		0.048	0.22	4.48	44	0.17	16.00	54	0.7
YY13408		0.061	0.37	3.24	80	0.41	10.80	65	0.8
YY13409		0.068	0.39	3.98	79	0.38	16.30	76	0.9
YY13410		0.041	0.32	2.25	68	0.43	10.45	90	0.5
YY13411		0.044	0.34	2.01	75	0.45	8.38	88	0.6
YY13412		0.062	0.35	5.58	68	0.37	25.4	86	0.9
YY13413		0.085	0.38	5.42	80	0.46	15.80	121	1.2
YY13414		0.042	0.49	6.38	57	0.32	16.70	149	0.7
YY13415		0.051	0.33	5.07	51	0.26	14.25	143	1.3
YY13416		0.057	0.26	5.18	66	0.31	15.35	163	0.8
YY13417		0.081	0.17	1.36	69	0.45	4.65	97	0.7
YY13418		0.074	0.26	3.80	67	0.46	16.10	136	1.2
YY13419		0.033	0.30	3.35	47	0.62	6.21	181	0.7
YY13420		0.079	0.14	1.04	75	0.38	4.31	66	1.0
YY13421		0.056	0.22	2.26	52	0.26	4.93	150	1.2
YY13422		0.019	1.09	6.42	42	0.72	29.9	760	2.8
YY13423		0.100	0.21	5.39	77	0.40	18.55	58	1.5
YY13424		0.038	0.11	1.31	30	0.17	1.86	18	<0.5
YY13425		0.141	0.23	3.47	80	0.27	12.75	58	9.8
YY13426		0.066	0.22	2.97	68	0.44	13.90	55	1.4
YY13427		0.113	0.36	4.14	97	0.43	13.00	69	1.4
YY13428		0.026	0.22	5.38	32	0.16	47.4	30	0.7
YY13429		0.138	0.35	2.18	86	0.30	9.41	63	1.3
YY13430		0.031	0.23	5.70	26	0.13	20.6	18	0.7
YY13431		0.118	0.13	0.71	72	0.32	4.54	49	4.2
YY13432		0.031	0.20	4.45	26	0.10	27.1	38	1.1
YY13433		0.066	0.30	4.33	68	0.26	23.1	62	0.9
YY13434		0.124	0.33	1.80	78	0.40	9.07	69	2.1
YY13435		0.121	0.32	5.12	87	0.39	23.6	62	1.5
YY13436		0.107	0.20	3.19	74	0.34	16.90	73	1.6
YY13437		0.125	0.15	1.51	68	0.31	5.99	55	1.9
YY13438		0.090	0.25	3.46	71	0.38	12.90	58	1.2
YY13439		0.146	0.28	2.10	82	0.33	9.04	55	2.4
YY13440		0.022	0.30	3.96	21	0.13	7.25	20	<0.5



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Page: 3 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
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	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY13441		0.45	0.003	0.06	2.08	13.2	<0.02	<10	250	0.44	0.18	0.36	0.11	30.0	11.6	29
YY13442		0.56	0.002	0.07	2.42	12.5	<0.02	<10	310	0.77	0.20	0.32	0.15	26.0	13.9	33
YY13443		0.74	0.003	0.05	2.09	10.4	<0.02	<10	160	0.43	0.21	0.30	0.13	27.7	9.6	28
YY13444		0.50	0.016	1.75	1.56	47.5	<0.02	<10	170	0.33	0.19	0.28	0.48	29.3	6.7	24
YY13445		0.75	0.007	0.51	1.28	27.9	<0.02	<10	150	0.37	0.14	0.30	0.56	28.5	8.9	25
YY13446		0.36	0.014	1.42	1.77	41.5	<0.02	<10	200	0.36	0.24	0.26	0.71	30.5	6.7	28
YY13447		0.43	0.010	0.92	1.73	20.0	<0.02	<10	210	0.35	0.22	0.20	0.76	31.0	20.2	27
YY13448		0.52	0.011	0.92	1.68	28.4	<0.02	<10	180	0.38	0.22	0.26	0.68	31.2	9.0	27
YY13449		0.49	0.010	1.34	1.74	26.6	<0.02	<10	190	0.35	0.22	0.28	0.44	29.4	10.0	27
YY13450		0.39	0.010	0.80	2.41	37.4	<0.02	<10	280	0.73	0.27	0.29	1.16	40.1	11.5	34
YY13001		0.43	0.017	0.79	1.55	18.5	<0.02	<10	320	0.33	0.23	0.40	1.39	31.1	7.6	24
YY13002		0.41	0.009	0.69	1.60	27.6	<0.02	<10	240	0.40	0.18	0.42	1.45	37.6	9.5	24
YY13003		0.49	0.011	1.39	1.89	39.2	<0.02	<10	300	0.46	0.23	0.40	1.79	33.0	11.7	29
YY13004		0.37	0.021	1.69	1.89	47.2	<0.02	<10	350	0.61	0.23	0.50	4.75	44.5	15.9	27
YY13005		0.39	0.020	2.14	1.72	69.8	<0.02	<10	300	0.92	0.19	0.33	9.28	60.2	29.5	27
YY13006		0.48	0.018	1.48	1.93	60.1	<0.02	<10	260	0.60	0.24	0.27	3.68	47.5	24.9	31
YY13007		0.50	0.014	1.32	1.64	25.4	<0.02	<10	160	0.32	0.19	0.31	1.26	30.1	6.4	28
YY13008		0.58	0.015	1.23	1.82	43.0	<0.02	<10	190	0.49	0.19	0.28	1.49	36.9	6.9	32
YY13009		0.41	0.012	1.23	1.52	138.5	<0.02	<10	150	0.34	0.18	0.26	0.98	32.0	9.1	26
YY13010		0.35	0.011	1.55	1.54	47.6	<0.02	<10	160	0.29	0.19	0.28	0.77	25.8	11.9	27
YY13011		0.54	0.010	1.32	1.62	27.4	<0.02	<10	150	0.33	0.19	0.27	0.60	28.0	9.6	28
YY13012		0.47	0.011	1.38	1.47	42.4	<0.02	<10	150	0.31	0.20	0.30	0.73	26.0	8.2	27
YY13013		0.26	0.011	1.83	1.44	21.1	<0.02	<10	160	0.26	0.20	0.29	0.83	24.4	6.9	27
YY13014		0.49	0.011	1.81	1.60	34.1	<0.02	<10	200	0.36	0.21	0.37	1.01	30.9	12.2	27
YY13015		0.31	0.031	5.05	0.87	112.0	0.02	<10	170	0.25	0.21	0.30	0.94	19.55	12.3	20
YY13016		0.37	0.012	1.52	1.19	68.8	<0.02	<10	160	0.19	0.25	0.29	1.01	22.2	11.9	22
YY13017		0.36	0.024	2.63	1.45	87.8	<0.02	<10	180	0.27	0.22	0.26	0.76	23.9	12.8	27
YY13018		0.44	0.021	1.89	1.54	93.3	<0.02	<10	180	0.41	0.24	0.34	0.64	33.6	9.4	29
YY13019		0.42	0.018	2.18	1.52	166.5	<0.02	<10	220	0.38	0.24	0.34	1.36	30.5	10.7	27
YY13020		0.38	0.022	3.29	1.91	47.5	0.02	<10	280	0.53	0.27	0.31	1.01	42.9	7.2	31
YY13021		0.35	0.037	4.92	1.55	136.0	0.03	<10	310	0.46	0.28	0.28	3.53	46.8	17.1	26
YY13022		0.45	0.032	4.32	1.98	161.5	0.03	<10	310	0.64	0.35	0.34	1.21	39.6	11.7	31
YY13023		0.42	0.035	5.86	1.90	182.0	0.03	<10	280	0.59	0.40	0.33	1.61	31.9	13.3	32
YY13024		0.47	0.033	2.69	1.52	154.5	0.03	<10	250	0.46	0.41	0.32	1.06	30.5	10.3	29
YY13025		0.43	0.013	1.96	1.46	59.4	<0.02	<10	340	0.58	0.29	0.47	1.13	34.5	10.3	29
YY13026		0.55	0.009	1.62	1.29	49.5	<0.02	<10	290	0.53	0.24	0.44	0.68	43.1	10.3	25
YY13027		0.54	0.005	1.00	1.69	24.5	<0.02	<10	170	0.39	0.16	0.22	0.41	17.40	7.1	26
YY13028		0.51	0.010	2.07	1.55	44.3	<0.02	<10	180	0.30	0.46	0.33	0.13	23.5	4.9	26
YY13029		0.64	0.021	2.69	1.82	119.5	<0.02	<10	200	0.70	0.37	0.27	0.31	41.2	9.7	29
YY13030		0.52	0.040	13.65	1.67	146.5	0.03	<10	300	0.72	0.23	0.22	1.35	32.3	9.4	29



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Page: 3 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

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CERTIFICATE OF ANALYSIS WH20174530

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		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
YY13441		2.69	13.9	3.38	7.91	0.05	0.02	0.03	0.027	0.11	15.5	15.2	0.66	427	1.18	0.02
YY13442		2.56	23.9	3.69	9.77	<0.05	<0.02	0.02	0.028	0.06	13.5	13.6	0.52	2180	2.32	0.02
YY13443		2.82	14.4	3.21	7.69	0.06	0.02	0.03	0.029	0.11	14.6	14.3	0.61	242	0.83	0.02
YY13444		3.19	11.2	2.33	5.53	0.06	0.04	0.10	0.024	0.08	15.7	10.0	0.45	234	4.78	0.02
YY13445		2.32	13.2	2.54	4.97	0.06	0.08	0.04	0.024	0.11	15.1	10.6	0.44	498	3.51	0.02
YY13446		2.80	14.5	2.44	6.56	0.05	0.02	0.11	0.029	0.07	15.2	10.6	0.41	513	3.78	0.02
YY13447		2.74	11.9	2.35	6.72	<0.05	0.02	0.09	0.029	0.06	14.3	10.1	0.42	2330	3.54	0.02
YY13448		2.63	14.2	2.33	6.20	<0.05	0.02	0.09	0.025	0.07	16.0	10.1	0.43	496	2.72	0.02
YY13449		2.99	11.5	2.32	6.32	<0.05	0.02	0.08	0.026	<0.05	15.7	10.8	0.46	461	2.87	0.02
YY13450		2.42	21.7	3.09	8.49	<0.05	0.02	0.07	0.044	0.08	21.0	17.9	0.56	523	1.08	0.02
YY13001		2.07	14.7	2.08	6.32	0.05	0.02	0.06	0.027	0.06	17.2	11.5	0.47	298	0.90	0.02
YY13002		1.82	14.2	2.26	6.00	<0.05	0.03	0.08	0.033	0.07	19.4	11.9	0.49	300	0.88	0.02
YY13003		2.40	19.3	2.51	7.18	<0.05	0.02	0.10	0.037	0.07	16.8	12.5	0.45	706	1.04	0.02
YY13004		1.87	29.3	2.52	6.34	0.05	0.02	0.11	0.048	0.06	22.0	11.6	0.41	1510	1.32	0.02
YY13005		1.80	29.3	3.00	5.90	0.05	0.03	0.11	0.048	0.06	26.6	8.0	0.32	4370	2.00	0.02
YY13006		2.14	21.5	2.62	7.01	<0.05	0.02	0.06	0.049	0.07	18.6	10.9	0.43	5420	1.38	0.02
YY13007		1.76	13.6	1.80	6.07	<0.05	0.02	0.08	0.033	0.06	15.6	10.6	0.42	298	0.58	0.02
YY13008		1.81	20.1	2.24	6.05	0.05	0.08	0.07	0.038	0.07	18.9	11.2	0.47	161	0.48	0.02
YY13009		1.72	10.3	3.37	5.60	<0.05	0.02	0.08	0.024	0.06	15.7	9.1	0.39	638	1.81	0.02
YY13010		2.05	10.3	2.09	5.71	<0.05	<0.02	0.09	0.023	0.05	13.4	9.4	0.41	1020	1.65	0.02
YY13011		2.33	11.2	1.97	6.07	<0.05	0.02	0.07	0.026	0.05	14.1	10.6	0.43	366	1.55	0.02
YY13012		2.15	10.8	1.94	5.97	<0.05	<0.02	0.07	0.025	0.05	14.2	10.0	0.39	682	1.77	0.02
YY13013		2.29	10.0	1.76	5.57	<0.05	0.02	0.09	0.021	0.07	13.2	8.5	0.38	635	1.83	0.02
YY13014		2.61	11.0	2.29	5.98	<0.05	0.02	0.09	0.026	0.06	16.5	10.4	0.46	747	2.39	0.02
YY13015		1.80	12.7	2.73	3.90	<0.05	<0.02	0.21	0.018	0.04	11.5	3.8	0.18	1340	22.1	0.02
YY13016		2.86	8.2	1.88	5.33	<0.05	<0.02	0.11	0.019	0.05	11.0	6.8	0.33	1340	7.60	0.02
YY13017		3.56	11.1	2.17	5.44	<0.05	<0.02	0.13	0.027	0.05	11.8	8.5	0.36	536	6.92	0.02
YY13018		3.20	15.2	2.27	5.61	<0.05	0.02	0.10	0.024	0.05	17.6	9.9	0.44	351	7.30	0.02
YY13019		2.37	16.2	4.82	5.74	0.05	0.02	0.12	0.033	0.04	17.8	9.2	0.38	711	17.35	0.02
YY13020		3.68	22.1	1.82	6.36	0.05	0.03	0.11	0.041	0.05	24.0	11.9	0.47	196	9.12	0.02
YY13021		3.77	20.8	2.13	5.87	<0.05	0.02	0.14	0.042	0.05	16.4	8.7	0.37	4510	10.80	0.02
YY13022		4.86	24.5	2.84	6.84	0.06	<0.02	0.15	0.048	0.07	25.0	12.2	0.50	638	18.40	0.02
YY13023		4.81	26.9	2.96	7.31	<0.05	<0.02	0.20	0.055	0.08	17.2	12.0	0.46	2170	15.75	0.02
YY13024		4.27	27.0	2.85	6.51	<0.05	0.02	0.10	0.044	0.10	16.9	10.4	0.41	1420	18.80	0.02
YY13025		3.42	46.2	2.49	5.71	0.06	0.02	0.13	0.028	0.07	20.3	9.6	0.44	1660	19.15	0.02
YY13026		3.09	42.3	2.32	4.70	0.05	0.03	0.07	0.024	0.07	22.5	8.8	0.41	1850	17.80	0.02
YY13027		1.67	15.9	2.68	4.54	<0.05	0.02	0.08	0.019	0.06	8.3	9.1	0.36	812	4.83	0.02
YY13028		2.79	28.3	2.09	4.97	<0.05	0.02	0.21	0.022	0.08	13.8	7.1	0.43	264	20.4	0.02
YY13029		3.16	65.4	2.76	4.89	0.05	0.02	0.22	0.029	0.07	22.0	9.9	0.40	2500	50.4	0.02
YY13030		4.77	35.9	3.07	5.20	0.06	<0.02	0.28	0.028	0.11	18.6	10.2	0.35	2080	25.1	0.02



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Page: 3 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	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
YY13441		1.58	16.1	1050	11.6	16.6	<0.001	0.04	1.59	4.7	0.2	0.7	21.3	<0.01	0.02	4.1
YY13442		0.49	19.1	1740	12.0	13.5	0.001	0.13	0.99	1.2	0.5	0.7	27.2	<0.01	0.06	0.3
YY13443		1.48	16.1	950	9.6	18.4	<0.001	0.02	0.63	4.3	<0.2	0.7	16.3	<0.01	0.03	3.6
YY13444		1.56	14.2	650	56.0	18.5	<0.001	0.02	6.65	4.3	0.2	0.7	18.3	<0.01	0.02	6.4
YY13445		1.27	14.9	740	28.4	19.9	<0.001	0.01	4.19	3.9	0.3	0.7	18.5	<0.01	0.01	8.0
YY13446		1.24	14.9	720	39.5	15.5	<0.001	0.05	3.91	4.5	0.3	0.7	19.8	<0.01	0.02	2.6
YY13447		1.04	15.1	620	37.1	15.9	<0.001	0.04	2.49	4.3	0.3	0.7	19.1	<0.01	0.01	2.0
YY13448		1.18	15.3	660	35.1	16.6	0.001	0.03	2.78	4.4	0.3	0.6	19.6	<0.01	0.03	2.5
YY13449		1.14	16.0	670	43.7	15.2	<0.001	0.04	2.77	4.2	<0.2	0.6	22.2	<0.01	0.02	2.4
YY13450		1.43	21.2	490	60.5	21.6	<0.001	0.03	1.51	4.9	0.6	0.9	26.7	<0.01	0.04	3.5
YY13001		1.30	15.3	760	34.9	15.3	<0.001	0.06	1.07	4.1	0.5	0.7	34.6	<0.01	0.02	2.4
YY13002		1.35	17.1	650	48.5	16.6	<0.001	0.04	1.40	5.2	0.3	0.7	33.7	<0.01	0.03	3.9
YY13003		1.05	16.8	690	80.8	18.3	<0.001	0.05	1.74	5.1	0.3	0.8	32.3	<0.01	0.03	3.3
YY13004		0.89	19.7	850	108.5	17.0	<0.001	0.08	1.99	5.2	0.5	0.7	39.4	<0.01	0.02	2.5
YY13005		0.73	18.1	1210	116.0	14.6	<0.001	0.08	2.64	5.4	0.7	0.6	27.8	<0.01	0.04	2.3
YY13006		0.81	17.1	780	142.5	18.9	<0.001	0.05	3.06	5.0	0.3	0.7	22.7	<0.01	0.01	3.2
YY13007		1.11	15.2	500	90.1	13.3	<0.001	0.03	2.32	4.6	<0.2	0.7	22.6	<0.01	0.01	3.8
YY13008		1.30	17.2	530	99.2	14.3	<0.001	0.01	3.09	6.3	0.2	0.7	20.1	<0.01	0.02	7.8
YY13009		1.07	14.2	860	113.0	13.9	<0.001	0.03	3.42	3.8	<0.2	0.6	18.6	<0.01	0.02	3.1
YY13010		0.75	14.1	620	68.6	13.0	<0.001	0.04	2.56	3.7	<0.2	0.6	22.2	<0.01	0.01	1.4
YY13011		0.88	15.2	550	62.4	15.9	<0.001	0.03	2.83	4.1	0.4	0.6	21.7	<0.01	0.01	1.6
YY13012		0.83	14.4	600	57.3	15.2	<0.001	0.03	3.01	3.9	0.3	0.6	24.9	<0.01	0.02	1.6
YY13013		0.90	13.6	630	50.8	15.5	<0.001	0.04	2.92	3.8	0.4	0.6	23.9	<0.01	<0.01	1.5
YY13014		1.18	16.8	670	69.1	17.8	<0.001	0.03	3.46	4.7	0.3	0.7	28.9	<0.01	0.03	3.1
YY13015		0.58	8.3	1320	135.0	6.9	<0.001	0.15	7.04	2.4	0.5	0.4	23.6	<0.01	0.03	0.7
YY13016		0.83	11.0	620	103.5	9.6	<0.001	0.06	4.33	3.1	0.3	0.6	21.7	<0.01	0.01	1.3
YY13017		0.77	13.0	660	131.0	13.0	<0.001	0.06	5.13	3.6	0.4	0.6	21.8	<0.01	0.02	1.3
YY13018		0.96	15.8	620	119.0	11.0	<0.001	0.04	5.90	4.4	0.4	0.6	24.6	<0.01	0.03	3.2
YY13019		0.95	13.6	830	134.0	8.3	<0.001	0.11	4.63	4.3	0.3	0.7	24.9	<0.01	0.04	2.1
YY13020		0.89	16.9	680	168.0	12.3	0.001	0.09	4.69	4.6	0.4	0.9	23.4	<0.01	0.01	2.1
YY13021		0.65	14.7	780	256	10.9	<0.001	0.08	9.93	4.0	0.3	1.0	22.5	<0.01	0.03	2.5
YY13022		0.94	19.9	700	244	17.1	<0.001	0.08	9.53	5.0	0.3	1.1	25.6	<0.01	0.02	3.5
YY13023		0.70	19.5	800	250	17.2	0.001	0.06	11.75	3.9	0.4	1.2	30.3	<0.01	0.03	2.4
YY13024		0.82	16.6	680	239	18.9	<0.001	0.08	18.40	3.4	0.2	1.0	30.0	<0.01	0.04	2.7
YY13025		0.77	18.3	790	38.0	14.8	<0.001	0.08	8.42	4.6	0.3	0.5	36.5	<0.01	0.03	2.3
YY13026		0.89	17.4	640	41.2	12.4	0.001	0.04	8.06	5.1	0.2	0.5	31.6	<0.01	0.03	4.6
YY13027		0.93	13.4	540	57.3	7.4	<0.001	0.04	4.31	2.3	0.4	0.4	13.7	<0.01	0.03	1.8
YY13028		1.01	12.0	640	51.2	12.1	<0.001	0.05	8.80	3.7	0.2	0.4	19.2	<0.01	0.02	4.5
YY13029		0.79	12.6	700	52.7	9.6	0.001	0.07	12.70	4.0	0.5	0.5	17.4	<0.01	0.02	5.9
YY13030		0.72	14.7	830	216	13.6	<0.001	0.11	28.2	3.6	0.3	0.5	19.8	<0.01	0.04	2.3



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Page: 3 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS	WH20174530
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Sample Description	Method Analyte Units LOD	ME-MS41 Ti %	ME-MS41 Tl ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13441		0.115	0.25	1.56	77	0.46	7.33	58	1.0
YY13442		0.037	0.25	1.91	84	0.43	7.25	61	<0.5
YY13443		0.122	0.26	1.29	76	0.38	6.34	58	1.0
YY13444		0.097	0.32	1.90	56	0.54	6.29	121	2.1
YY13445		0.115	0.36	2.51	66	5.41	7.12	92	3.7
YY13446		0.081	0.26	2.93	61	0.49	6.49	85	0.9
YY13447		0.076	0.32	2.51	52	0.46	5.44	97	0.5
YY13448		0.077	0.26	2.60	58	0.52	6.62	91	0.8
YY13449		0.073	0.27	2.21	53	0.44	5.70	104	0.7
YY13450		0.081	0.25	4.48	73	0.26	7.57	141	0.8
YY13001		0.077	0.18	3.40	42	0.29	7.16	109	0.8
YY13002		0.080	0.20	3.61	50	0.27	9.18	147	1.1
YY13003		0.057	0.21	4.23	57	0.21	8.48	186	0.6
YY13004		0.044	0.24	7.22	53	0.31	12.60	259	0.7
YY13005		0.045	0.22	8.95	49	0.24	15.85	224	0.7
YY13006		0.056	0.31	4.56	53	0.20	8.21	227	0.5
YY13007		0.070	0.19	2.20	45	0.37	6.34	151	0.9
YY13008		0.091	0.20	2.61	58	0.25	9.64	168	3.5
YY13009		0.063	0.19	2.60	97	0.25	6.29	139	0.8
YY13010		0.055	0.24	3.95	50	0.26	5.28	122	<0.5
YY13011		0.061	0.26	4.14	51	0.29	5.44	114	0.5
YY13012		0.059	0.21	4.09	50	0.27	5.71	102	0.5
YY13013		0.070	0.23	2.26	40	0.37	5.21	103	0.6
YY13014		0.073	0.24	2.31	53	0.80	7.53	144	1.0
YY13015		0.033	0.30	3.28	69	0.37	5.88	53	0.5
YY13016		0.062	0.29	1.59	50	0.34	3.49	101	0.6
YY13017		0.048	0.47	2.50	45	0.46	4.32	124	0.5
YY13018		0.068	0.26	3.37	55	0.36	7.16	145	0.9
YY13019		0.047	0.28	3.97	57	0.42	9.54	165	0.9
YY13020		0.051	0.33	5.52	52	0.45	12.95	209	0.8
YY13021		0.044	0.42	4.34	42	0.51	6.78	206	0.6
YY13022		0.048	0.34	4.92	63	0.69	12.55	297	0.8
YY13023		0.046	0.32	3.66	60	1.07	5.93	293	0.5
YY13024		0.057	0.30	2.15	58	1.03	4.78	170	0.7
YY13025		0.066	0.21	3.81	56	0.46	11.80	122	1.1
YY13026		0.076	0.26	3.76	53	1.22	11.00	94	1.4
YY13027		0.082	0.11	1.07	65	0.23	3.05	81	0.8
YY13028		0.059	0.23	2.33	48	0.30	4.84	78	1.0
YY13029		0.046	0.31	5.56	48	0.44	10.40	69	0.9
YY13030		0.047	0.31	7.52	57	0.41	8.94	188	0.5



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Page: 4 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
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	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY13031		0.53	0.012	0.92	2.14	98.2	<0.02	<10	270	0.95	0.34	0.53	0.43	37.6	11.7	36
YY13032		0.47	0.008	0.12	2.26	16.5	<0.02	<10	150	0.56	0.18	0.23	0.21	22.5	11.5	36
YY13033		0.43	0.005	0.14	2.30	13.6	<0.02	<10	110	0.50	0.17	0.20	0.19	19.65	9.5	34
YY13035		0.45	0.004	0.06	2.12	12.5	<0.02	<10	90	0.45	0.22	0.14	0.14	21.6	9.1	34
YY13036		0.46	0.006	0.04	2.43	9.4	<0.02	<10	140	0.51	0.13	0.21	0.14	35.8	12.6	33
YY13037		0.41	0.004	0.19	1.69	8.5	<0.02	<10	250	0.67	0.64	0.46	0.57	51.6	10.5	23
YY13038		0.64	0.004	0.08	1.64	7.7	<0.02	<10	310	0.48	0.17	0.53	0.18	39.8	10.9	27
YY13039		0.41	0.004	0.14	1.98	8.4	<0.02	<10	540	0.64	0.28	0.93	0.29	42.7	12.5	27
YY13040		0.62	0.006	0.09	2.21	8.7	<0.02	<10	310	0.54	0.47	0.49	0.17	45.0	14.1	37
YY13041		0.34	0.006	0.25	1.93	6.2	<0.02	<10	380	0.54	0.16	1.21	0.50	58.3	10.2	26
YY13042		0.64	0.005	0.09	1.73	22.3	<0.02	<10	350	0.58	0.18	0.61	0.21	36.8	12.8	38
YY13043		0.45	0.004	0.27	2.03	20.9	<0.02	<10	350	0.52	0.19	0.42	0.54	42.6	13.6	26
YY13044		0.50	0.005	0.18	2.50	10.5	<0.02	<10	310	0.66	0.27	0.34	0.34	49.4	13.2	29
YY13045		0.77	0.008	0.78	2.02	124.0	<0.02	<10	270	0.58	0.27	0.42	1.73	39.3	10.4	29
YY13046		0.46	0.007	0.49	1.64	148.0	<0.02	<10	280	0.59	0.24	0.41	0.84	38.1	17.8	22
YY13047		0.53	0.036	3.78	1.54	94.7	0.03	<10	210	0.54	0.33	0.43	1.60	35.1	9.0	25
YY13048		0.48	0.085	5.85	1.56	210	0.07	<10	200	0.64	0.30	0.76	2.38	31.6	9.5	28
YY13049		0.43	0.016	4.37	1.40	80.7	<0.02	<10	220	0.51	0.18	1.38	3.50	23.2	7.9	24
YY13050		0.43	0.014	1.76	1.62	87.8	<0.02	<10	320	0.44	0.21	0.63	1.21	27.4	7.2	25
YY13101		0.46	0.014	1.23	1.50	98.7	0.02	<10	220	0.45	0.16	1.03	1.70	28.0	10.9	24
YY13102		0.40	0.025	2.17	1.35	106.5	0.02	<10	250	0.53	0.16	1.01	3.53	29.3	8.4	26
YY13103		0.52	0.006	0.15	2.20	12.4	<0.02	<10	100	0.49	0.13	0.33	0.36	21.6	12.0	34
YY13104		0.54	0.004	0.36	2.22	14.0	0.03	<10	120	0.51	0.39	0.24	0.64	20.6	8.9	30
YY13105		0.68	0.016	10.35	1.79	493	<0.02	<10	270	0.61	0.19	0.47	5.14	39.8	9.2	33
YY13106		0.59	0.005	0.29	2.01	20.0	<0.02	<10	200	0.62	0.28	0.31	0.24	51.0	8.9	30
YY13107		0.72	0.007	0.74	1.97	58.1	<0.02	<10	230	0.47	0.40	0.31	0.69	33.8	8.8	31
YY13108		0.67	0.006	0.10	2.25	7.1	<0.02	<10	200	0.43	0.27	0.36	0.15	34.4	9.5	32
YY13109		0.48	0.005	0.10	2.06	8.0	<0.02	<10	180	0.33	0.21	0.38	0.11	25.2	8.8	28
YY13110		0.55	0.003	0.05	2.44	11.1	<0.02	<10	240	0.48	0.23	0.35	0.13	35.9	11.4	30
YY13111		0.36	0.005	0.23	1.09	33.1	<0.02	<10	240	0.33	0.17	0.28	0.26	29.7	10.5	18
YY13112		0.37	0.006	0.16	1.73	5.6	<0.02	<10	400	0.43	0.17	0.38	0.23	37.7	15.4	28
YY13113		0.69	0.005	0.06	2.53	15.3	<0.02	<10	310	0.52	0.20	0.32	0.14	43.3	11.4	30
YY13114		0.44	0.004	0.09	1.68	52.2	<0.02	<10	460	0.57	0.13	0.44	0.14	41.8	16.9	17
YY13115		0.39	0.008	0.17	1.69	29.0	<0.02	<10	300	0.52	0.18	0.27	0.35	36.2	6.1	24
YY13116		0.65	0.006	0.37	2.48	60.7	<0.02	<10	330	0.59	0.19	0.33	0.14	39.4	12.5	30
YY13117		0.40	0.008	0.60	1.08	13.4	<0.02	<10	580	0.63	0.07	1.45	1.52	118.5	5.2	14
YY13118		0.52	0.005	0.09	2.06	8.0	<0.02	<10	290	0.52	0.16	0.41	0.20	41.0	11.0	30
YY13119		0.54	0.004	0.08	1.69	12.1	<0.02	<10	230	0.33	0.15	0.47	0.15	23.7	9.9	26
YY13120		0.63	0.004	0.14	2.02	14.5	<0.02	<10	260	0.59	0.18	0.46	0.21	48.1	15.1	30
YY13121		0.66	0.003	0.08	1.98	9.9	<0.02	<10	270	0.48	0.18	0.66	0.14	30.2	14.8	29



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Page: 4 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	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
YY13031		5.61	93.3	3.04	6.08	0.08	0.03	0.18	0.033	0.09	22.1	14.1	0.53	1010	77.8	0.02
YY13032		1.35	30.5	3.46	7.48	<0.05	0.02	0.05	0.031	0.07	9.3	17.1	0.60	599	3.13	0.02
YY13033		1.29	20.0	3.32	7.29	<0.05	0.05	0.05	0.028	0.07	9.8	17.3	0.52	329	2.86	0.02
YY13035		1.75	22.5	3.74	9.13	0.05	0.02	0.07	0.032	0.07	9.7	20.2	0.52	497	1.94	0.02
YY13036		1.86	27.0	3.21	6.51	0.06	0.05	0.03	0.031	0.09	11.9	16.1	0.69	617	0.82	0.02
YY13037		3.09	28.1	3.22	6.09	0.08	0.02	0.13	0.036	0.09	33.4	10.8	0.44	818	1.84	0.03
YY13038		2.61	21.4	3.32	5.32	0.07	0.02	0.11	0.031	0.11	21.6	12.9	0.65	722	1.11	0.03
YY13039		4.13	24.4	3.72	6.07	0.07	0.02	0.09	0.034	0.08	26.5	13.9	0.65	956	3.00	0.03
YY13040		4.85	33.3	3.94	6.97	0.09	0.05	0.09	0.043	0.22	23.3	18.7	0.89	378	1.85	0.03
YY13041		4.80	32.4	2.31	5.78	0.09	0.05	0.14	0.035	0.07	39.3	12.0	0.55	812	2.58	0.03
YY13042		4.57	31.5	3.68	6.24	0.08	0.03	0.05	0.032	0.16	16.7	17.3	0.81	702	1.78	0.03
YY13043		5.43	16.1	3.92	6.39	0.07	0.03	0.15	0.039	0.17	22.8	11.7	0.57	871	2.65	0.02
YY13044		5.79	18.7	3.20	7.99	0.07	0.02	0.11	0.046	0.12	25.7	16.4	0.64	953	1.12	0.02
YY13045		7.21	20.2	3.26	6.11	0.07	0.03	0.13	0.033	0.13	21.8	16.8	0.64	747	1.39	0.02
YY13046		5.28	13.3	9.32	4.71	0.07	0.03	0.14	0.029	0.08	16.8	9.5	0.36	1830	1.75	0.02
YY13047		3.52	18.0	2.64	4.82	0.05	0.04	0.16	0.029	0.12	19.1	9.7	0.45	1360	0.70	0.02
YY13048		5.81	25.9	3.46	4.82	0.06	0.08	0.17	0.040	0.11	21.4	9.5	0.50	1810	1.28	0.03
YY13049		2.40	24.7	2.33	4.26	0.05	0.06	0.11	0.027	0.07	16.0	8.8	0.47	1080	0.94	0.02
YY13050		2.61	20.3	2.55	5.31	0.05	<0.02	0.09	0.026	0.05	17.5	8.1	0.33	830	1.62	0.02
YY13101		2.73	19.2	3.00	4.84	0.05	0.04	0.09	0.028	0.08	13.2	9.9	0.55	1750	1.22	0.02
YY13102		2.23	26.0	2.39	4.14	0.06	0.04	0.16	0.029	0.08	17.7	8.4	0.44	1740	0.97	0.03
YY13103		1.07	30.0	2.88	5.66	0.06	0.07	0.05	0.024	0.08	9.5	14.7	0.61	430	3.45	0.02
YY13104		2.39	25.7	3.26	7.45	<0.05	0.04	0.07	0.040	0.07	9.4	15.9	0.42	537	12.35	0.02
YY13105		4.91	54.3	3.24	5.87	0.09	0.09	0.11	0.048	0.16	23.7	13.1	0.55	846	13.85	0.03
YY13106		4.45	26.0	3.37	6.86	0.08	0.06	0.08	0.040	0.13	27.7	12.3	0.55	469	4.77	0.02
YY13107		4.13	13.4	3.13	6.23	0.08	0.11	0.04	0.033	0.15	18.8	11.9	0.62	664	0.90	0.02
YY13108		4.17	13.4	2.87	7.75	0.07	0.06	0.04	0.032	0.13	18.5	14.9	0.67	323	0.59	0.02
YY13109		3.38	11.1	2.97	7.21	0.05	0.04	0.06	0.023	0.11	13.5	13.3	0.63	272	0.73	0.02
YY13110		3.72	16.6	3.35	7.96	0.07	0.06	0.04	0.033	0.16	19.3	16.6	0.75	378	0.60	0.02
YY13111		1.09	14.7	6.74	3.53	0.06	0.03	0.13	0.018	0.06	15.3	4.7	0.23	599	3.01	0.02
YY13112		1.36	15.9	2.73	5.54	0.05	<0.02	0.08	0.026	0.05	16.9	9.7	0.42	2670	1.20	0.02
YY13113		3.15	13.6	2.99	7.96	0.06	0.03	0.04	0.033	0.14	22.8	15.3	0.76	296	0.78	0.02
YY13114		3.10	12.9	3.46	5.44	0.06	0.02	0.10	0.030	0.11	24.8	11.0	0.44	1630	1.40	0.02
YY13115		2.52	18.2	2.37	5.84	0.05	0.03	0.09	0.027	0.09	22.2	12.8	0.41	265	0.91	0.02
YY13116		4.11	17.2	3.38	8.45	0.07	0.03	0.10	0.034	0.16	22.0	23.0	0.80	271	1.57	0.02
YY13117		0.61	38.8	0.76	1.80	0.11	0.04	0.20	0.019	0.03	53.3	1.8	0.17	5630	1.76	0.02
YY13118		3.92	21.3	3.02	7.12	0.08	0.14	0.09	0.036	0.17	21.5	23.1	0.81	288	0.48	0.02
YY13119		2.50	14.1	3.00	5.71	0.05	0.05	0.07	0.029	0.07	12.4	17.2	0.65	369	0.66	0.02
YY13120		3.19	25.5	3.50	6.86	0.08	0.09	0.07	0.035	0.08	24.3	19.7	0.71	428	0.65	0.03
YY13121		3.68	14.1	3.58	7.32	0.08	0.08	0.06	0.036	0.18	14.2	25.5	0.86	819	0.85	0.02



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Page: 4 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS	WH20174530
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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOD	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
YY13031		1.19	24.0	800	32.7	13.8	0.001	0.07	10.20	5.2	0.7	0.5	37.2	<0.01	0.05	4.7
YY13032		1.37	29.9	410	13.0	10.4	<0.001	0.04	1.78	3.8	0.2	0.6	19.2	<0.01	0.04	1.5
YY13033		1.71	27.3	390	11.4	9.4	<0.001	0.02	0.87	3.6	0.3	0.6	15.9	0.01	0.02	2.6
YY13035		1.71	23.3	500	11.2	14.6	<0.001	0.05	0.94	3.1	0.5	0.8	13.3	<0.01	0.04	1.5
YY13036		1.64	28.7	400	7.5	12.6	<0.001	0.03	0.67	4.8	0.4	0.6	16.0	<0.01	0.03	3.2
YY13037		0.84	17.2	1140	15.5	15.7	<0.001	0.12	0.80	4.7	0.5	0.6	30.4	<0.01	0.04	1.1
YY13038		1.19	19.3	1020	7.6	15.1	0.001	0.03	0.73	6.2	0.6	0.6	26.8	<0.01	0.02	3.7
YY13039		1.18	19.2	990	10.8	20.8	<0.001	0.09	0.82	7.1	0.8	0.6	52.8	<0.01	0.04	2.1
YY13040		2.01	21.1	890	7.8	31.6	<0.001	0.04	0.75	11.0	0.3	1.1	21.2	<0.01	0.07	7.8
YY13041		1.27	17.5	1470	7.8	13.6	0.001	0.32	0.77	6.5	0.5	0.6	58.3	<0.01	0.02	1.6
YY13042		1.70	24.3	740	8.4	21.6	<0.001	0.06	0.83	6.6	0.3	0.9	32.6	<0.01	0.05	4.1
YY13043		1.73	12.7	960	72.8	27.0	<0.001	0.08	6.37	7.6	0.6	0.7	21.3	<0.01	0.03	7.4
YY13044		1.47	14.6	1020	21.9	24.2	<0.001	0.07	1.52	10.2	0.4	0.9	21.5	<0.01	0.03	6.3
YY13045		1.31	18.9	740	64.8	22.1	<0.001	0.02	5.82	7.9	0.3	0.6	22.6	<0.01	0.01	7.5
YY13046		1.06	10.8	920	46.9	13.1	<0.001	0.11	10.80	5.4	0.5	0.6	24.8	<0.01	0.05	6.3
YY13047		1.05	15.6	680	198.0	18.0	0.001	0.06	20.8	7.3	<0.2	0.6	21.8	<0.01	0.03	7.6
YY13048		0.86	16.7	760	183.0	16.4	0.001	0.07	15.70	8.4	0.4	0.5	37.5	<0.01	0.03	5.8
YY13049		0.99	16.4	830	184.0	11.7	0.001	0.12	7.35	4.5	0.5	0.4	53.4	<0.01	0.03	2.2
YY13050		0.78	16.0	1180	125.0	9.8	<0.001	0.12	4.04	2.9	0.4	0.5	40.9	<0.01	0.02	0.6
YY13101		1.20	17.3	840	190.5	16.7	<0.001	0.10	8.11	4.7	0.4	0.5	43.4	<0.01	0.03	2.7
YY13102		0.80	18.7	1070	167.5	13.5	<0.001	0.12	5.99	4.8	0.7	0.4	49.6	<0.01	0.03	1.7
YY13103		1.68	29.8	540	9.6	8.0	<0.001	0.04	1.04	4.3	0.4	0.5	20.4	<0.01	0.02	2.7
YY13104		1.96	20.3	520	15.6	15.0	<0.001	0.04	1.07	4.0	0.5	0.7	19.0	0.01	0.04	2.9
YY13105		1.14	20.1	840	653	24.0	<0.001	0.03	14.60	9.5	0.3	0.9	33.1	<0.01	0.03	8.4
YY13106		1.97	15.7	600	23.1	29.8	<0.001	0.02	2.27	9.1	<0.2	1.3	18.5	<0.01	0.03	14.9
YY13107		1.58	15.0	650	56.8	31.1	<0.001	0.02	5.63	6.1	0.2	1.1	17.4	<0.01	0.03	13.4
YY13108		2.50	17.2	690	13.8	26.2	<0.001	0.03	0.88	7.1	0.2	1.4	20.2	<0.01	0.02	11.4
YY13109		2.16	14.6	710	10.0	18.8	<0.001	0.05	0.77	5.7	0.2	1.1	21.0	<0.01	0.02	5.3
YY13110		2.36	17.3	810	9.5	24.8	<0.001	0.02	0.69	6.2	0.3	1.0	18.9	<0.01	0.03	8.9
YY13111		1.00	7.3	1310	5.4	6.0	0.001	0.16	0.60	3.4	0.5	0.3	19.9	<0.01	0.04	1.4
YY13112		1.13	11.9	1530	7.3	6.1	<0.001	0.15	0.72	4.0	0.5	0.6	24.0	<0.01	0.02	1.6
YY13113		1.80	15.7	800	14.7	19.8	<0.001	0.02	1.90	6.2	0.2	0.8	15.3	<0.01	0.01	8.6
YY13114		1.06	9.9	1000	29.0	14.3	<0.001	0.04	3.12	6.7	0.2	0.6	21.1	<0.01	0.02	6.8
YY13115		1.43	9.5	810	17.9	14.7	<0.001	0.09	1.76	4.8	0.3	0.5	18.0	<0.01	0.03	2.2
YY13116		1.97	16.8	860	28.0	27.2	<0.001	0.04	3.95	7.3	0.3	0.8	17.0	<0.01	0.02	9.1
YY13117		0.20	12.6	1890	3.3	3.1	0.001	0.34	3.15	3.3	0.9	<0.2	80.4	<0.01	0.03	0.7
YY13118		2.70	16.5	540	10.8	35.6	<0.001	0.02	0.76	8.2	0.3	0.9	24.5	<0.01	0.02	13.2
YY13119		1.81	14.4	650	8.8	14.8	<0.001	0.02	0.58	5.2	<0.2	0.7	27.3	<0.01	0.02	7.2
YY13120		2.03	19.3	510	10.3	18.5	<0.001	0.03	0.78	9.4	0.4	0.8	31.9	<0.01	0.03	11.2
YY13121		3.07	16.3	790	10.7	41.7	<0.001	0.02	0.58	7.7	0.3	1.1	36.5	<0.01	0.02	12.2



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Page: 4 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13031		0.075	0.24	15.95	63	0.48	23.0	87	1.2
YY13032		0.116	0.13	1.07	81	0.26	4.17	69	1.1
YY13033		0.108	0.11	0.72	75	0.34	3.68	59	2.4
YY13035		0.121	0.15	0.96	86	0.24	3.24	61	1.1
YY13036		0.130	0.15	0.94	72	0.23	4.67	61	1.8
YY13037		0.041	0.21	5.29	59	0.24	18.05	75	0.7
YY13038		0.103	0.20	2.61	74	0.36	10.65	65	1.0
YY13039		0.059	0.32	4.67	71	0.39	15.75	80	0.8
YY13040		0.167	0.39	3.08	96	0.82	13.10	72	2.3
YY13041		0.050	0.36	12.70	58	0.25	31.9	47	1.2
YY13042		0.125	0.24	2.02	75	0.51	7.60	79	1.2
YY13043		0.090	0.43	3.01	96	0.43	12.25	99	1.2
YY13044		0.076	0.46	4.40	80	0.36	13.40	84	0.7
YY13045		0.086	0.33	5.20	69	0.32	12.60	257	1.3
YY13046		0.032	0.43	6.24	62	0.29	8.33	110	0.9
YY13047		0.054	0.42	4.33	57	0.47	11.85	224	1.3
YY13048		0.054	0.41	3.72	61	0.35	16.45	333	2.1
YY13049		0.053	0.22	5.77	50	0.22	11.70	319	2.0
YY13050		0.040	0.24	3.35	55	0.24	11.15	116	0.5
YY13101		0.077	0.27	2.42	64	0.44	6.76	268	1.5
YY13102		0.053	0.23	3.81	50	0.34	14.05	269	1.5
YY13103		0.126	0.10	1.37	69	0.48	5.27	58	2.8
YY13104		0.105	0.16	1.14	71	0.61	4.15	83	1.6
YY13105		0.100	0.38	3.85	65	1.15	16.45	472	4.8
YY13106		0.116	0.40	7.13	72	0.69	16.60	71	2.7
YY13107		0.143	0.40	2.87	73	0.37	9.39	135	5.2
YY13108		0.139	0.44	3.30	86	0.33	8.31	66	2.4
YY13109		0.129	0.28	1.74	74	0.30	6.30	55	1.5
YY13110		0.166	0.33	1.59	88	0.44	8.57	63	2.3
YY13111		0.048	0.19	2.86	84	0.26	7.85	22	1.1
YY13112		0.072	0.31	2.78	58	0.33	8.84	40	0.9
YY13113		0.143	0.33	2.29	87	0.52	9.77	66	1.4
YY13114		0.052	0.33	3.71	73	0.71	12.25	52	0.8
YY13115		0.068	0.24	3.27	57	0.35	10.45	33	0.9
YY13116		0.132	0.34	2.83	96	0.41	9.40	62	1.3
YY13117		0.012	0.24	9.21	19	0.12	35.3	26	0.8
YY13118		0.186	0.41	7.27	82	0.26	10.65	74	5.6
YY13119		0.124	0.21	2.24	74	0.20	6.34	67	2.0
YY13120		0.121	0.25	7.10	78	0.26	14.05	69	4.0
YY13121		0.187	0.41	3.92	89	0.25	8.03	79	3.0



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Page: 5 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS	WH20174530
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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	
	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	
YY13122	0.54	0.004	0.08	1.96	6.4	<0.02	<10	270	0.49	0.18	0.55	0.13	36.9	11.4	29	
YY13123	0.66	0.003	0.09	2.11	7.2	<0.02	<10	270	0.53	0.19	0.45	0.09	43.8	11.4	30	
YY13124	0.70	0.004	0.11	2.44	12.5	<0.02	<10	310	0.64	0.21	0.66	0.12	58.2	14.1	32	
YY13125	0.63	0.004	0.11	2.34	9.0	<0.02	<10	330	0.60	0.16	0.39	0.06	47.6	12.4	33	
YY13126	0.61	0.008	0.10	2.21	58.6	<0.02	<10	310	0.59	0.37	0.36	0.09	47.7	12.7	29	
YY13127	0.52	0.004	0.09	1.75	9.4	0.02	<10	130	0.34	0.27	0.22	0.21	19.30	8.6	25	
YY13128	0.63	0.006	0.09	2.20	31.2	<0.02	<10	420	0.95	1.19	0.43	0.14	85.5	14.7	19	
YY13129	0.53	0.003	0.04	2.73	16.5	<0.02	<10	230	0.67	0.29	0.18	0.16	40.1	15.4	29	
YY13130	0.51	0.004	0.07	2.94	21.2	<0.02	<10	180	0.68	0.20	0.16	0.12	24.2	12.3	39	
YY13131	0.35	0.005	0.05	1.47	17.5	<0.02	<10	90	0.30	0.23	0.12	0.16	16.55	4.3	19	
YY13132	0.56	0.009	0.05	1.68	9.2	0.10	<10	160	0.30	0.21	0.15	0.08	22.0	4.0	24	
YY13133	0.59	0.006	0.04	2.46	8.4	<0.02	<10	240	0.48	0.17	0.18	0.14	22.8	9.4	26	
YY13134	0.49	0.006	0.04	2.02	18.1	<0.02	<10	130	0.41	0.17	0.14	0.13	22.1	7.8	25	
YY13135	0.35	0.005	0.10	1.14	4.0	<0.02	<10	140	0.30	0.15	0.14	0.16	30.8	2.8	17	
YY13136	0.56	0.004	0.06	2.26	11.7	<0.02	<10	200	0.38	0.19	0.25	0.21	21.9	11.8	26	
YY13137	0.70	0.007	0.11	2.11	12.3	<0.02	<10	250	0.45	0.16	0.37	0.20	32.9	10.5	32	
YY13138	0.66	0.008	0.20	2.07	20.5	<0.02	<10	230	0.43	0.20	0.31	0.33	34.1	8.8	29	
YY13139	0.57	0.006	0.16	2.16	19.6	<0.02	<10	290	0.54	0.19	0.32	0.34	40.6	9.0	31	
YY13140	0.64	0.009	0.21	1.98	28.3	<0.02	<10	210	0.49	0.19	0.28	0.30	31.6	7.6	28	
YY13141	0.71	0.013	0.63	1.99	60.4	<0.02	<10	280	0.63	0.21	0.35	0.71	46.2	11.1	32	
YY13142	0.61	0.010	0.25	1.90	15.1	<0.02	<10	190	0.42	0.23	0.29	0.39	35.4	8.3	29	
YY13143	0.64	0.008	0.26	1.88	19.7	<0.02	<10	290	0.47	0.19	0.34	0.68	43.2	12.4	31	
YY13144	0.56	0.012	0.34	1.62	18.5	<0.02	<10	160	0.32	0.19	0.39	0.42	26.6	8.8	26	
YY04436	0.40	0.004	0.16	1.85	39.0	<0.02	<10	210	0.84	0.43	0.34	0.15	64.7	18.2	41	
YY04437	0.51	0.003	0.09	1.53	17.2	<0.02	<10	300	0.44	0.26	0.52	0.19	37.8	11.7	23	
YY04438	0.48	0.004	0.14	1.81	61.2	<0.02	<10	260	0.73	0.37	0.61	0.17	58.1	15.4	39	
YY04439	0.46	0.007	0.07	2.23	14.3	<0.02	<10	230	0.51	0.22	0.35	0.12	39.0	14.1	36	
YY04440	0.57	0.007	0.40	2.21	22.0	0.02	<10	180	0.44	0.35	0.32	0.25	30.3	9.4	38	
YY04441	0.62	0.007	2.32	1.96	83.3	<0.02	<10	270	0.43	0.26	0.48	1.12	34.2	9.5	31	
YY04442	0.52	0.009	0.21	2.13	30.1	<0.02	<10	270	0.49	0.27	0.48	0.18	36.6	11.5	40	
YY04443	0.39	0.010	0.20	2.74	40.9	<0.02	<10	320	0.64	0.32	0.40	0.27	40.6	12.8	42	
YY04444	0.44	0.006	0.16	2.15	17.9	<0.02	<10	270	0.35	0.19	0.35	0.18	25.6	10.5	35	
YY04445	0.43	0.006	0.10	2.02	16.2	0.02	<10	240	0.31	0.22	0.29	0.16	18.35	8.5	32	
YY04446	0.53	0.004	0.06	2.31	16.7	<0.02	<10	290	0.39	0.15	0.33	0.13	26.8	12.8	33	
YY04447	0.51	0.005	0.06	2.31	12.1	<0.02	<10	230	0.36	0.12	0.40	0.17	29.9	10.1	33	
YY04448	0.55	0.003	0.06	2.13	11.5	<0.02	<10	290	0.36	0.14	0.38	0.15	27.2	13.8	32	
YY04449	0.45	0.007	0.03	2.03	7.4	<0.02	<10	240	0.31	0.14	0.43	0.13	20.8	9.4	35	
YY04450	0.41	0.006	0.05	2.23	8.1	<0.02	<10	250	0.43	0.14	0.37	0.09	26.8	10.9	34	



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Page: 5 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	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
YY13122		2.74	17.2	2.91	6.65	0.07	0.05	0.06	0.031	0.09	19.2	22.1	0.70	369	0.41	0.02
YY13123		4.29	17.5	3.17	7.15	0.08	0.07	0.07	0.036	0.14	22.1	21.7	0.73	242	0.48	0.02
YY13124		4.18	20.9	4.27	9.11	0.10	0.10	0.07	0.044	0.11	28.2	27.4	0.96	351	0.68	0.03
YY13125		4.13	24.9	3.62	7.89	0.09	0.07	0.09	0.037	0.15	27.5	23.1	0.81	380	0.92	0.02
YY13126		5.63	19.7	3.71	6.89	0.08	0.10	0.11	0.036	0.18	23.8	21.9	0.77	661	0.90	0.02
YY13127		3.32	13.7	3.24	9.12	0.05	0.07	0.02	0.030	0.10	10.0	15.7	0.52	354	1.62	0.02
YY13128		10.90	14.0	5.16	8.51	0.11	0.08	0.04	0.060	0.35	40.8	20.8	0.80	1100	0.79	0.02
YY13129		8.43	15.4	5.00	11.10	0.06	0.13	0.03	0.053	0.23	15.8	25.5	0.74	981	1.33	0.02
YY13130		4.24	13.3	4.12	7.60	<0.05	0.14	0.06	0.040	0.07	11.9	18.7	0.52	378	1.49	0.02
YY13131		1.28	10.5	2.40	9.90	<0.05	0.03	0.04	0.019	0.05	8.5	7.6	0.24	164	1.11	0.01
YY13132		1.38	13.5	2.56	8.37	<0.05	0.03	0.03	0.026	0.05	11.3	8.2	0.23	115	1.33	0.02
YY13133		2.43	14.5	3.34	9.25	<0.05	0.06	0.07	0.034	0.10	11.6	15.3	0.60	355	1.00	0.02
YY13134		2.79	13.0	3.40	8.06	<0.05	0.04	0.06	0.030	0.08	11.3	12.7	0.39	271	1.40	0.02
YY13135		0.95	13.2	1.47	5.73	<0.05	<0.02	0.06	0.017	0.05	22.6	4.8	0.20	100	0.95	0.02
YY13136		1.92	14.3	3.40	8.90	0.05	0.09	0.02	0.026	0.11	11.3	17.6	0.66	601	1.10	0.02
YY13137		1.39	22.0	3.03	6.19	0.06	0.04	0.04	0.028	0.08	17.4	13.9	0.60	249	0.51	0.02
YY13138		2.26	20.0	3.20	6.77	0.05	0.04	0.06	0.030	0.09	17.5	13.0	0.55	201	0.53	0.02
YY13139		3.15	21.2	3.15	6.60	0.06	0.11	0.07	0.034	0.08	20.8	13.4	0.58	213	0.54	0.02
YY13140		1.99	16.1	2.74	6.01	0.05	0.02	0.06	0.032	0.06	15.7	12.7	0.48	154	0.36	0.02
YY13141		2.10	29.6	3.52	6.05	0.08	0.06	0.08	0.041	0.08	22.6	12.6	0.52	326	0.55	0.02
YY13142		1.71	20.2	2.54	5.89	0.06	0.03	0.05	0.029	0.07	17.7	12.0	0.54	184	0.56	0.02
YY13143		1.76	27.2	3.20	5.95	0.07	0.06	0.04	0.030	0.07	21.4	13.6	0.60	382	0.73	0.02
YY13144		1.77	13.2	2.30	5.43	0.05	0.03	0.06	0.028	0.07	14.1	12.1	0.52	254	0.75	0.02
YY04436		7.71	25.8	4.32	5.92	0.07	0.02	0.15	0.039	0.11	35.1	12.5	0.60	521	2.04	0.02
YY04437		3.45	17.0	3.34	5.05	0.05	0.02	0.09	0.032	0.07	21.1	9.5	0.59	392	1.84	0.02
YY04438		5.47	29.3	4.04	5.96	0.07	0.02	0.15	0.034	0.09	32.2	12.7	0.59	1040	2.53	0.02
YY04439		3.51	17.9	3.06	6.87	0.07	0.11	0.03	0.032	0.14	19.3	14.5	0.69	478	0.88	0.02
YY04440		3.27	17.0	2.95	6.95	0.05	0.06	0.04	0.031	0.10	15.2	13.4	0.64	255	0.82	0.02
YY04441		3.32	31.5	2.79	6.26	0.07	0.04	0.05	0.031	0.10	20.0	11.4	0.61	1400	8.26	0.01
YY04442		2.56	37.2	3.23	5.66	0.07	0.03	0.03	0.024	0.08	20.5	13.1	0.64	766	9.11	0.02
YY04443		4.19	41.4	3.93	7.19	0.05	0.02	0.05	0.032	0.09	19.0	14.4	0.64	868	9.73	0.01
YY04444		3.69	17.9	3.05	6.43	<0.05	<0.02	0.02	0.022	0.07	13.0	10.0	0.57	726	4.57	0.01
YY04445		2.77	14.0	3.37	7.26	<0.05	<0.02	0.02	0.023	0.09	9.9	11.6	0.59	769	1.51	0.01
YY04446		2.05	14.9	3.53	8.00	0.06	<0.02	0.02	0.025	0.09	13.4	14.0	0.63	931	1.44	0.01
YY04447		1.56	17.0	2.95	5.94	0.07	0.04	0.02	0.024	0.12	14.1	13.1	0.65	293	0.76	0.01
YY04448		2.05	15.1	3.28	6.34	<0.05	0.02	0.02	0.022	0.09	13.1	12.3	0.64	1030	1.04	0.01
YY04449		2.09	12.7	3.32	6.58	<0.05	<0.02	0.03	0.026	0.07	11.0	12.8	0.69	345	1.28	0.01
YY04450		2.36	14.2	3.50	6.81	0.05	0.02	0.04	0.026	0.09	13.9	14.8	0.76	490	1.37	0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	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
YY13122		2.62	16.0	580	9.6	19.8	<0.001	0.04	0.54	7.0	0.3	0.9	34.0	<0.01	0.02	9.2
YY13123		2.41	17.7	630	10.7	31.2	<0.001	0.02	0.57	8.4	0.3	0.9	27.7	<0.01	0.02	12.9
YY13124		2.89	19.4	780	11.1	24.5	<0.001	0.03	0.69	11.1	<0.2	1.2	40.2	<0.01	0.02	17.0
YY13125		1.90	20.1	600	9.1	31.3	<0.001	0.01	0.67	9.7	0.2	0.9	27.6	<0.01	0.02	12.0
YY13126		1.78	19.1	550	9.8	36.8	<0.001	0.01	0.96	8.7	0.2	0.9	26.9	<0.01	0.02	15.6
YY13127		2.08	14.1	320	10.4	24.0	<0.001	0.02	0.61	4.8	0.2	1.0	19.5	<0.01	0.03	4.3
YY13128		1.83	13.0	960	13.9	64.8	<0.001	0.01	1.30	15.0	<0.2	1.5	23.5	<0.01	0.02	28.8
YY13129		2.30	18.6	690	12.5	40.6	<0.001	0.02	0.76	11.4	0.2	1.4	12.9	<0.01	0.03	19.0
YY13130		1.45	22.8	550	9.8	16.9	<0.001	0.01	0.91	5.5	0.3	0.7	16.2	0.01	0.03	6.5
YY13131		1.85	8.5	250	12.9	12.1	<0.001	0.02	0.56	2.8	0.2	1.0	12.3	<0.01	0.04	3.7
YY13132		1.31	9.0	350	13.6	11.9	<0.001	0.01	0.49	3.5	0.3	0.8	17.9	<0.01	0.04	3.8
YY13133		1.67	14.1	340	10.2	17.8	<0.001	0.01	0.68	6.2	<0.2	1.0	18.8	<0.01	0.03	6.1
YY13134		1.59	12.0	380	10.9	13.4	<0.001	0.01	1.01	5.4	0.4	0.7	13.8	<0.01	0.03	6.0
YY13135		0.92	7.1	370	7.7	9.9	<0.001	0.04	0.33	2.0	0.3	0.5	17.3	<0.01	0.03	0.7
YY13136		2.29	15.8	340	11.0	20.5	<0.001	0.01	0.80	4.6	0.2	0.8	20.8	<0.01	0.03	4.8
YY13137		1.47	20.2	680	13.9	13.3	<0.001	0.01	0.74	5.8	0.2	0.6	25.0	<0.01	0.02	5.6
YY13138		1.88	15.9	650	20.8	16.7	<0.001	0.02	1.16	6.0	0.3	0.7	21.8	<0.01	0.03	6.2
YY13139		1.79	15.9	580	19.1	14.7	<0.001	0.02	1.21	7.5	0.2	0.7	21.1	<0.01	0.03	9.8
YY13140		1.22	15.9	520	32.2	11.0	<0.001	0.02	1.77	5.3	0.2	0.6	20.2	<0.01	0.02	4.5
YY13141		1.40	21.2	760	50.1	17.5	<0.001	0.02	3.26	8.3	0.4	0.7	26.3	<0.01	0.02	7.6
YY13142		1.47	17.4	570	29.0	13.7	<0.001	0.02	1.48	5.5	0.3	0.6	19.9	<0.01	0.03	6.1
YY13143		1.53	21.4	590	27.8	13.1	<0.001	0.02	1.36	7.0	0.2	0.6	25.5	<0.01	0.03	8.6
YY13144		1.49	16.8	720	36.0	14.3	<0.001	0.05	1.64	4.5	0.3	0.6	25.8	<0.01	0.02	5.1
YY04436		1.02	24.9	950	18.1	25.4	<0.001	0.06	2.67	9.0	0.3	0.6	20.1	<0.01	0.04	7.1
YY04437		0.89	16.0	550	8.6	13.3	<0.001	0.05	1.16	6.0	<0.2	0.5	29.1	<0.01	0.02	5.5
YY04438		0.96	24.8	950	13.7	17.8	<0.001	0.09	1.83	6.4	0.3	0.6	35.5	<0.01	0.05	3.8
YY04439		1.76	17.4	660	11.7	24.0	<0.001	0.01	1.12	7.1	<0.2	1.0	20.2	<0.01	0.02	11.7
YY04440		1.79	16.6	600	35.5	20.4	<0.001	0.03	3.44	6.7	0.2	1.0	20.1	<0.01	0.03	9.6
YY04441		1.61	18.2	820	130.0	23.2	<0.001	0.05	9.37	6.3	0.2	0.9	33.0	<0.01	0.05	6.9
YY04442		1.07	23.8	820	17.6	15.6	<0.001	0.02	1.72	6.5	0.6	0.5	27.3	<0.01	0.04	5.6
YY04443		0.92	28.3	910	18.4	14.4	<0.001	0.07	1.66	4.7	0.5	0.6	27.5	<0.01	0.05	2.1
YY04444		0.86	16.1	790	14.2	16.9	<0.001	0.03	1.38	3.8	0.2	0.6	23.7	<0.01	0.03	1.9
YY04445		0.98	14.9	750	13.6	17.4	<0.001	0.06	1.24	2.8	0.3	0.8	23.2	<0.01	0.03	1.0
YY04446		1.09	17.6	950	11.2	18.3	<0.001	0.05	1.22	3.6	0.3	0.7	24.2	<0.01	0.03	1.8
YY04447		1.34	19.1	1000	9.0	15.9	<0.001	0.02	1.06	4.6	0.3	0.5	21.0	<0.01	0.02	4.6
YY04448		0.98	16.4	920	9.9	16.3	<0.001	0.04	1.07	3.9	0.3	0.6	23.7	<0.01	0.02	2.5
YY04449		0.94	14.4	850	10.1	12.8	<0.001	0.04	0.54	3.5	0.2	0.6	24.9	<0.01	0.02	1.9
YY04450		1.16	17.7	830	9.3	16.2	<0.001	0.05	0.48	4.8	0.2	0.7	23.8	<0.01	0.01	2.7



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Page: 5 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 24-SEP-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174530

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY13122		0.146	0.27	6.10	82	0.19	9.57	61	2.0
YY13123		0.153	0.34	5.05	79	0.19	12.50	60	2.6
YY13124		0.179	0.38	7.14	104	0.22	16.30	73	3.8
YY13125		0.160	0.34	3.68	84	0.17	13.25	67	3.1
YY13126		0.152	0.38	3.40	83	0.20	11.55	67	4.7
YY13127		0.136	0.19	0.90	90	0.17	3.81	54	2.8
YY13128		0.141	0.63	7.02	102	0.26	20.8	94	3.0
YY13129		0.171	0.40	5.06	115	0.16	9.08	82	4.7
YY13130		0.073	0.22	1.31	78	0.17	3.96	56	5.1
YY13131		0.119	0.15	0.59	79	0.14	2.47	27	1.3
YY13132		0.090	0.18	0.74	66	0.13	3.29	26	1.5
YY13133		0.115	0.21	0.72	84	0.15	4.43	48	2.5
YY13134		0.082	0.23	1.37	82	0.19	3.75	44	1.6
YY13135		0.065	0.11	1.04	43	0.11	5.78	21	<0.5
YY13136		0.186	0.19	0.57	89	0.22	4.36	59	3.3
YY13137		0.130	0.16	1.20	69	0.16	8.13	66	1.8
YY13138		0.119	0.26	2.06	71	0.18	8.08	75	1.6
YY13139		0.113	0.28	3.35	79	0.18	11.05	81	5.3
YY13140		0.071	0.21	1.34	69	0.18	7.11	75	0.9
YY13141		0.085	0.24	2.20	73	0.20	16.85	94	2.8
YY13142		0.101	0.20	1.98	61	0.19	7.96	83	1.4
YY13143		0.108	0.22	2.45	68	0.17	12.45	91	3.3
YY13144		0.094	0.17	2.20	54	0.25	5.56	95	1.6
YY04436		0.067	0.52	3.73	75	0.57	13.90	70	0.8
YY04437		0.060	0.24	1.64	73	0.93	8.34	69	0.7
YY04438		0.061	0.41	3.15	74	0.63	12.95	70	0.7
YY04439		0.149	0.33	3.01	87	0.33	8.92	69	4.8
YY04440		0.123	0.31	2.47	76	0.29	7.46	92	2.6
YY04441		0.116	0.33	3.82	68	1.63	10.35	154	1.4
YY04442		0.121	0.18	4.80	77	2.78	13.10	74	1.4
YY04443		0.080	0.20	4.79	84	0.62	11.70	92	0.6
YY04444		0.075	0.21	1.81	84	0.62	4.85	66	<0.5
YY04445		0.095	0.17	1.45	85	0.39	3.59	85	<0.5
YY04446		0.107	0.17	1.35	86	0.35	4.70	75	0.5
YY04447		0.135	0.16	1.35	80	0.33	6.61	72	1.6
YY04448		0.105	0.18	1.41	80	0.32	5.56	77	0.6
YY04449		0.089	0.14	1.05	85	0.27	3.86	78	0.5
YY04450		0.116	0.19	1.51	85	0.21	6.67	78	0.9



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 24-SEP-2020
Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20174530

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41



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Page: 1
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 16-NOV-2020
 Account: RCM

CERTIFICATE WH20211169

Project: Idaho Creek

This report is for 61 Soil samples submitted to our lab in Whitehorse, YT, Canada on 21-SEP-2020.

The following have access to data associated with this certificate:

ANDREW CARNE	ADAM COULTER
--------------	--------------

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	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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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Page: 2 - A
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 16-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211169

Sample Description	Method	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	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	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
YY29500		0.38	0.30	1.80	41.2	<0.02	<10	340	0.52	0.22	0.69	1.02	36.0	10.7	27	3.42
YY29501		0.26	0.22	1.32	15.6	<0.02	<10	260	0.25	0.27	0.63	2.10	26.5	11.2	23	1.93
YY29502		0.40	0.18	1.69	28.0	<0.02	<10	260	0.43	0.34	0.42	0.60	31.7	15.1	26	2.77
YY29503		0.45	0.14	1.74	13.0	<0.02	<10	200	0.42	0.30	0.43	0.41	31.4	9.2	27	2.94
YY29504		0.25	0.26	1.52	57.9	<0.02	<10	210	0.32	0.28	0.47	0.67	25.6	6.9	24	3.05
YY29505		0.33	0.52	1.76	49.1	<0.02	<10	240	0.43	0.41	0.48	0.89	33.0	7.6	30	4.29
YY29506		0.23	0.85	1.63	48.7	<0.02	<10	270	0.43	0.27	0.70	1.53	39.9	11.7	27	3.21
YY29507		0.26	0.33	1.68	44.3	<0.02	<10	220	0.32	0.34	0.36	0.68	22.8	9.3	27	2.54
YY29508		0.37	0.25	1.39	33.2	<0.02	<10	270	0.23	0.32	0.60	0.33	19.45	8.2	27	2.79
YY29509		0.49	0.21	1.55	44.2	<0.02	<10	290	0.32	0.29	0.52	0.30	21.6	11.3	28	4.10
YY29510		0.36	0.19	1.71	21.4	<0.02	<10	360	0.46	0.27	0.69	0.52	41.3	13.3	29	4.09
YY29511		0.36	0.25	1.84	17.1	<0.02	<10	250	0.57	0.30	0.54	0.31	41.3	18.6	29	4.91
YY29512		0.18	0.20	1.51	8.0	<0.02	<10	330	0.36	0.23	0.76	0.36	30.4	11.2	30	3.30
YY29513		0.34	0.15	1.44	8.1	<0.02	<10	420	0.45	0.24	0.85	0.51	36.0	11.7	28	4.56
YY29514		0.23	0.21	1.45	14.2	<0.02	<10	360	0.45	0.39	0.89	0.49	36.8	11.4	32	3.92
YY29515		0.24	0.23	1.77	8.7	<0.02	<10	350	0.63	0.35	0.97	0.24	41.0	10.6	32	4.74
YY29516		0.31	0.11	1.47	10.5	<0.02	<10	250	0.53	0.32	0.82	0.17	32.9	9.5	29	4.48
YY29517		0.46	0.09	1.80	7.4	<0.02	<10	250	0.42	0.17	0.59	0.16	27.6	14.5	28	3.67
YY29518		0.55	0.20	1.98	8.1	0.02	<10	290	0.70	0.21	0.48	0.32	55.0	10.7	34	5.91
YY29519		0.44	0.08	2.31	48.4	<0.02	<10	160	0.46	0.22	0.22	0.24	20.4	9.7	33	4.14
YY29520		0.38	0.09	1.74	21.7	<0.02	<10	140	0.53	0.25	0.26	0.25	20.5	8.4	26	5.00
YY29521		0.58	0.20	1.79	103.5	<0.02	10	310	0.60	0.21	0.61	0.21	33.9	11.3	29	4.43
YY29522		0.39	0.15	1.60	9.7	<0.02	<10	230	0.78	0.23	0.29	0.36	40.3	11.5	26	5.06
YY29523		0.38	0.10	1.28	8.0	<0.02	10	330	0.65	0.18	0.81	0.25	42.4	9.2	22	7.82
YY29524		0.36	0.19	1.62	9.9	<0.02	<10	380	0.57	0.22	0.82	0.34	39.4	10.6	30	4.25
YY29525		0.38	0.27	1.39	39.5	<0.02	<10	260	0.32	0.31	0.55	0.23	27.1	7.6	23	2.33
YY29526		0.30	0.15	1.83	4.1	<0.02	<10	230	0.33	0.31	0.58	0.15	27.2	7.9	56	3.70
YY29527		0.48	0.15	2.22	10.9	<0.02	<10	280	0.55	0.28	0.43	0.34	35.7	13.7	39	3.91
YY29528		0.38	0.12	2.03	21.3	<0.02	<10	290	0.44	0.31	0.47	0.21	27.9	12.7	35	3.47
YY29529		0.44	0.27	1.65	11.3	<0.02	<10	340	0.52	0.33	0.46	0.55	49.0	14.1	30	4.26
YY29530		0.42	0.16	1.68	21.2	<0.02	<10	350	0.51	0.24	0.48	0.43	46.9	12.1	29	3.79
YY29551		0.28	0.08	1.63	50.5	<0.02	<10	130	0.35	0.32	0.17	0.50	26.4	7.1	29	3.98
YY29552		0.32	0.17	2.04	111.5	<0.02	<10	260	0.67	0.31	0.46	0.37	59.6	11.2	34	4.77
YY29553		0.29	0.14	1.72	30.5	<0.02	<10	360	0.48	0.28	0.81	0.42	42.7	10.7	28	3.78
YY29554		0.58	0.13	1.88	36.4	<0.02	<10	260	0.41	0.25	0.53	0.26	36.1	9.2	29	3.58
YY29555		0.35	0.11	1.49	31.4	0.02	<10	200	0.48	0.21	0.40	0.23	41.6	9.5	25	5.29
YY29556		0.47	0.19	1.64	19.9	<0.02	<10	310	0.51	0.27	0.87	0.30	41.4	10.6	28	3.23
YY29557		0.37	0.19	1.09	25.5	<0.02	<10	270	0.47	0.19	0.77	0.23	27.3	7.3	19	4.77
YY29558		0.25	0.14	1.56	7.7	<0.02	<10	240	0.37	0.25	0.80	0.32	29.8	9.9	29	2.41
YY29559		0.28	0.15	1.43	12.0	<0.02	<10	290	0.50	0.24	0.89	0.31	43.9	13.6	25	2.47



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Page: 2 - B
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 16-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211169

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units LOD	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		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
YY29500		16.5	3.10	5.61	0.05	0.03	0.05	0.027	0.09	20.3	16.6	0.57	739	2.92	0.03	1.09
YY29501		11.4	2.21	4.69	<0.05	0.04	0.08	0.022	0.06	14.5	9.5	0.48	1160	2.03	0.03	1.01
YY29502		9.4	3.54	5.66	0.05	0.03	0.05	0.033	0.07	16.3	11.6	0.54	1570	1.51	0.02	1.11
YY29503		11.9	2.31	5.91	<0.05	0.06	0.07	0.033	0.08	17.0	12.5	0.57	368	0.66	0.03	1.52
YY29504		10.0	3.03	5.02	<0.05	0.03	0.07	0.034	0.08	14.6	9.4	0.49	333	1.35	0.03	1.21
YY29505		13.1	2.07	5.68	0.05	0.03	0.14	0.099	0.09	18.7	11.4	0.50	437	0.53	0.02	1.27
YY29506		12.5	2.48	5.24	0.05	0.05	0.09	0.036	0.09	22.1	11.4	0.56	609	0.75	0.03	1.24
YY29507		14.5	2.95	7.36	<0.05	0.03	0.04	0.027	0.07	12.9	12.3	0.50	465	1.38	0.03	1.58
YY29508		10.0	2.59	6.34	<0.05	0.03	0.05	0.022	0.08	10.9	9.0	0.45	556	1.41	0.03	1.27
YY29509		10.0	2.93	6.42	<0.05	0.03	0.05	0.027	0.10	11.5	11.4	0.56	817	1.24	0.03	1.24
YY29510		16.5	3.12	5.99	0.05	0.05	0.06	0.027	0.12	19.9	12.0	0.60	1530	1.28	0.03	1.34
YY29511		12.1	3.23	5.92	0.05	0.05	0.08	0.032	0.08	19.1	14.4	0.56	849	1.40	0.03	1.36
YY29512		12.6	2.32	5.56	<0.05	0.05	0.08	0.024	0.06	17.2	11.3	0.52	917	0.78	0.03	1.10
YY29513		15.8	2.38	4.99	<0.05	0.04	0.08	0.026	0.07	17.8	10.6	0.53	1430	1.02	0.03	1.02
YY29514		16.0	2.41	4.87	<0.05	0.05	0.11	0.024	0.06	21.3	10.3	0.51	1130	2.01	0.03	0.96
YY29515		22.5	2.95	5.87	0.07	0.05	0.11	0.032	0.08	33.2	13.1	0.53	624	2.96	0.03	1.12
YY29516		17.3	2.92	5.22	0.05	0.04	0.09	0.025	0.08	18.0	11.8	0.50	538	2.28	0.03	1.00
YY29517		11.3	3.48	6.21	<0.05	0.05	0.06	0.032	0.07	14.0	13.3	0.60	583	1.50	0.03	1.53
YY29518		24.1	3.23	5.90	0.07	0.09	0.09	0.035	0.10	34.6	12.9	0.56	384	1.57	0.03	1.42
YY29519		16.5	4.21	8.22	<0.05	0.06	0.04	0.031	0.07	11.0	15.5	0.41	436	1.59	0.02	1.80
YY29520		11.0	3.83	7.27	<0.05	0.03	0.04	0.028	0.06	10.2	14.3	0.35	426	2.94	0.02	1.59
YY29521		16.8	3.46	5.18	0.06	0.08	0.07	0.037	0.10	16.8	11.7	0.58	485	1.87	0.02	1.42
YY29522		13.4	3.81	4.45	0.05	0.03	0.05	0.031	0.08	17.9	11.3	0.44	896	1.51	0.01	1.02
YY29523		11.5	2.86	3.89	0.07	0.10	0.07	0.031	0.10	20.8	7.6	0.42	546	1.28	0.02	0.97
YY29524		13.1	2.76	4.42	0.06	0.08	0.10	0.028	0.08	19.7	9.6	0.53	616	0.62	0.02	0.98
YY29525		7.4	3.28	4.05	0.05	0.03	0.09	0.024	0.08	13.8	8.7	0.40	293	0.84	0.01	0.96
YY29526		8.9	1.79	5.79	0.05	0.04	0.06	0.027	0.08	13.9	14.1	0.67	324	0.30	0.02	1.28
YY29527		14.8	3.61	6.68	0.06	0.03	0.03	0.031	0.10	17.9	16.4	0.75	978	0.81	0.02	1.45
YY29528		12.9	3.65	6.04	<0.05	0.02	0.06	0.030	0.09	14.1	12.6	0.62	817	0.81	0.02	1.35
YY29529		13.9	3.25	4.94	0.07	0.02	0.08	0.028	0.10	25.9	9.5	0.48	1430	0.93	0.02	0.82
YY29530		12.5	3.45	4.69	0.06	0.03	0.05	0.029	0.09	23.8	10.6	0.46	2070	0.62	0.01	0.86
YY29531		16.0	3.23	7.01	<0.05	0.03	0.06	0.031	0.06	13.1	8.9	0.34	370	2.54	0.02	1.55
YY29532		20.4	3.50	5.68	0.07	0.03	0.08	0.027	0.09	23.5	12.2	0.52	782	1.54	0.02	1.35
YY29533		18.5	3.10	5.28	0.07	0.04	0.07	0.027	0.07	24.2	10.8	0.53	641	2.19	0.03	1.31
YY29534		12.5	2.81	5.53	0.05	0.07	0.10	0.030	0.10	18.3	11.8	0.58	351	1.15	0.02	1.76
YY29535		13.9	2.99	4.71	0.06	0.06	0.05	0.024	0.10	20.4	9.4	0.47	444	0.93	0.02	1.47
YY29536		22.4	3.17	4.76	0.09	0.09	0.07	0.026	0.14	25.6	10.9	0.63	1020	2.12	0.03	1.63
YY29537		11.4	2.70	3.66	0.05	0.04	0.06	0.024	0.10	14.4	6.8	0.38	485	1.39	0.02	0.90
YY29538		12.5	2.74	5.36	0.05	0.05	0.05	0.027	0.07	15.7	10.2	0.51	471	1.13	0.02	1.33
YY29539		13.9	3.53	4.32	0.07	0.06	0.06	0.025	0.08	20.8	7.9	0.48	1450	2.23	0.02	1.10



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Page: 2 - C
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 16-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211169

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units LOD	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
YY29500		16.4	930	22.5	18.5	<0.001	0.06	1.25	4.7	0.2	0.6	51.4	<0.01	0.02	2.9	0.076
YY29501		13.8	740	18.8	11.2	<0.001	0.06	0.60	4.1	0.2	0.5	43.0	<0.01	0.02	3.7	0.067
YY29502		14.3	720	29.2	13.6	<0.001	0.03	0.69	4.6	0.3	0.6	27.9	<0.01	0.02	5.8	0.063
YY29503		15.0	560	30.2	14.9	<0.001	0.03	0.82	5.5	0.2	0.7	27.2	<0.01	0.02	8.1	0.086
YY29504		11.8	760	29.4	16.4	<0.001	0.05	0.88	4.2	0.3	0.6	28.5	<0.01	0.02	4.4	0.067
YY29505		14.9	590	105.5	21.4	<0.001	0.05	1.08	6.4	0.4	0.7	32.9	<0.01	0.04	5.7	0.065
YY29506		17.1	690	116.5	17.2	<0.001	0.05	0.94	6.1	<0.2	0.6	45.1	<0.01	0.03	5.4	0.075
YY29507		14.6	390	47.0	13.8	<0.001	0.03	0.59	4.4	0.2	0.8	27.2	<0.01	0.03	3.5	0.093
YY29508		11.1	520	19.5	12.4	<0.001	0.04	0.62	4.1	<0.2	0.7	40.5	<0.01	0.03	3.7	0.086
YY29509		14.5	590	20.7	18.3	<0.001	0.04	0.94	4.6	0.3	0.7	36.9	<0.01	0.02	3.7	0.088
YY29510		17.0	770	15.3	22.4	0.001	0.06	0.84	6.5	0.3	0.7	47.7	<0.01	0.02	5.3	0.089
YY29511		17.9	730	17.6	22.2	<0.001	0.04	0.71	6.4	0.3	0.6	39.7	<0.01	0.02	5.8	0.074
YY29512		17.3	840	14.9	12.2	<0.001	0.06	0.68	5.5	0.3	0.6	51.7	<0.01	0.03	3.9	0.072
YY29513		18.2	750	14.3	15.6	<0.001	0.06	0.83	5.2	<0.2	0.6	55.6	<0.01	0.02	3.4	0.067
YY29514		20.5	780	16.6	14.4	<0.001	0.08	0.92	4.9	<0.2	0.5	58.3	<0.01	0.03	2.7	0.060
YY29515		19.4	820	19.5	16.5	<0.001	0.07	0.93	5.5	0.2	0.6	58.3	<0.01	0.02	3.4	0.066
YY29516		17.2	730	17.4	19.2	<0.001	0.07	1.03	4.4	<0.2	0.5	54.3	<0.01	0.05	3.1	0.065
YY29517		16.5	830	12.0	13.2	<0.001	0.04	0.68	5.5	0.2	0.6	38.1	<0.01	0.02	5.8	0.093
YY29518		21.3	710	20.7	20.9	<0.001	0.03	0.87	8.8	0.3	0.6	30.8	<0.01	0.03	11.1	0.094
YY29519		17.2	350	18.0	12.3	<0.001	0.02	0.89	4.2	<0.2	0.7	18.0	<0.01	0.03	4.7	0.075
YY29520		13.2	360	20.6	15.2	<0.001	0.02	0.94	3.5	0.2	0.7	18.4	<0.01	0.03	3.6	0.068
YY29521		17.8	800	12.2	15.0	0.001	0.02	1.81	6.1	<0.2	0.5	35.6	<0.01	0.02	5.4	0.093
YY29522		16.5	600	13.4	13.1	<0.001	0.02	1.63	4.3	0.3	0.5	19.9	<0.01	0.03	4.7	0.059
YY29523		13.6	790	13.1	12.4	<0.001	0.04	1.17	7.2	0.2	0.6	44.8	<0.01	0.02	11.1	0.053
YY29524		16.9	790	12.1	14.0	<0.001	0.05	1.08	7.1	0.4	0.5	46.9	<0.01	0.01	4.9	0.043
YY29525		10.1	630	37.6	11.9	<0.001	0.05	2.20	3.2	0.2	0.4	32.4	<0.01	0.02	5.1	0.033
YY29526		21.0	660	18.5	13.4	<0.001	0.05	1.14	4.5	0.2	0.6	36.3	<0.01	0.02	4.1	0.063
YY29527		20.8	800	13.4	17.8	<0.001	0.03	0.53	5.3	0.4	0.7	28.7	<0.01	0.04	4.6	0.108
YY29528		18.0	750	14.3	17.3	<0.001	0.04	0.71	4.9	0.2	0.6	31.9	<0.01	0.03	4.3	0.080
YY29529		16.0	860	20.2	15.3	<0.001	0.05	0.68	4.6	0.4	0.4	32.9	<0.01	0.03	3.5	0.049
YY29530		18.0	690	18.4	14.2	<0.001	0.03	1.24	4.9	0.3	0.4	31.1	<0.01	0.01	9.8	0.043
YY29551		15.4	500	22.0	11.3	0.001	0.02	0.99	3.6	0.2	0.7	16.9	<0.01	0.04	3.0	0.087
YY29552		23.6	900	18.2	14.1	<0.001	0.04	0.81	4.3	0.4	0.6	29.6	<0.01	0.05	5.1	0.097
YY29553		17.5	880	12.0	13.1	<0.001	0.05	0.92	5.0	0.4	0.6	64.6	<0.01	0.03	2.8	0.079
YY29554		15.3	680	17.3	19.2	<0.001	0.03	1.21	5.8	0.3	0.7	31.7	<0.01	0.02	9.5	0.101
YY29555		15.4	560	13.8	13.7	0.001	0.02	0.74	4.4	<0.2	0.5	26.5	<0.01	0.02	8.4	0.098
YY29556		17.9	790	10.9	19.0	<0.001	0.05	0.87	7.1	0.4	0.6	47.7	<0.01	0.02	6.0	0.112
YY29557		11.2	530	15.0	13.8	<0.001	0.05	1.22	3.7	0.4	0.4	47.2	<0.01	0.02	2.5	0.045
YY29558		14.7	720	13.4	10.4	<0.001	0.07	0.53	4.4	0.2	0.5	48.4	<0.01	0.03	3.0	0.072
YY29559		13.5	880	13.0	11.7	<0.001	0.08	0.71	4.9	0.4	0.5	53.8	<0.01	0.02	4.6	0.065



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Page: 2 - D
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 16-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211169

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
YY29500		0.16	5.99	63	0.82	11.75	115	1.2	0.004
YY29501		0.14	3.20	48	0.42	7.89	135	1.4	0.009
YY29502		0.18	2.98	69	0.91	6.72	118	1.3	0.003
YY29503		0.21	3.06	60	0.44	7.40	93	2.2	0.005
YY29504		0.19	2.82	62	1.06	7.04	125	1.3	0.005
YY29505		0.25	5.01	50	0.37	9.34	161	1.6	0.027
YY29506		0.21	5.62	56	0.68	12.75	199	2.0	0.009
YY29507		0.18	2.37	78	0.41	4.93	86	1.3	0.005
YY29508		0.15	1.50	70	0.27	3.43	60	1.3	0.003
YY29509		0.20	1.85	66	0.53	3.83	83	1.4	0.005
YY29510		0.22	5.18	68	0.55	10.75	83	2.0	0.020
YY29511		0.23	6.12	66	0.29	8.39	82	2.1	0.005
YY29512		0.19	4.47	50	0.24	10.20	63	1.9	0.002
YY29513		0.19	3.98	58	0.43	10.30	76	1.6	0.003
YY29514		0.18	5.68	56	0.31	13.20	74	2.1	0.005
YY29515		0.15	9.90	61	0.30	19.35	65	1.7	0.006
YY29516		0.14	4.95	60	0.66	7.77	69	1.8	0.004
YY29517		0.19	2.65	66	0.29	7.45	73	2.5	0.002
YY29518		0.21	7.54	67	0.79	18.00	77	4.1	0.003
YY29519		0.16	0.89	84	0.24	3.48	55	3.0	0.004
YY29520		0.16	1.11	75	0.21	3.52	50	1.6	0.003
YY29521		0.14	2.68	72	0.45	8.07	83	3.9	0.011
YY29522		0.18	2.30	64	0.58	7.94	78	1.2	0.003
YY29523		0.16	3.33	61	0.51	13.25	75	3.9	0.005
YY29524		0.19	3.55	59	0.18	12.90	72	3.1	0.002
YY29525		0.17	1.52	53	0.23	4.71	92	1.2	0.003
YY29526		0.18	1.66	45	0.18	5.20	69	1.4	0.003
YY29527		0.18	2.28	77	0.19	7.62	87	1.2	0.004
YY29528		0.18	1.79	78	0.25	6.27	82	1.0	0.003
YY29529		0.15	3.44	57	0.21	12.15	92	0.5	0.005
YY29530		0.15	3.30	60	0.35	10.30	85	0.8	0.003
YY29551		0.13	1.38	78	0.52	4.43	54	1.3	0.007
YY29552		0.13	4.10	73	0.46	11.10	74	1.3	0.024
YY29553		0.17	8.46	69	0.37	13.85	71	1.8	0.008
YY29554		0.18	3.42	65	0.21	8.37	81	3.3	0.007
YY29555		0.12	2.09	62	0.25	7.96	58	2.9	0.011
YY29556		0.15	10.75	69	0.22	17.15	69	4.2	0.006
YY29557		0.14	2.36	48	0.20	6.14	53	1.6	0.005
YY29558		0.11	3.75	67	0.15	6.84	68	2.3	0.004
YY29559		0.13	5.18	72	0.36	10.55	71	2.3	0.003



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Page: 3 - A
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 16-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211169

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
YY29560		0.30	0.20	1.47	19.9	<0.02	<10	340	0.49	0.25	0.90	0.42	42.1	11.6	25	2.23
YY29561		0.47	0.13	1.65	8.1	<0.02	<10	280	0.38	0.24	0.56	0.23	37.3	12.3	25	2.68
YY29562		0.38	0.33	1.81	16.2	<0.02	<10	440	0.57	0.31	0.79	0.31	40.4	11.9	32	4.15
YY29563		0.47	0.29	1.86	20.1	<0.02	<10	310	0.47	0.27	0.49	0.25	32.1	10.2	30	4.57
YY29564		0.36	0.15	1.94	20.2	<0.02	<10	310	0.50	0.26	0.35	0.45	47.0	11.9	29	3.45
YY29565		0.22	0.54	1.58	25.0	<0.02	<10	380	0.36	0.35	0.87	0.89	37.9	12.7	27	2.69
YY29566		0.37	1.13	1.52	188.5	0.02	10	560	0.42	0.88	0.55	3.31	36.6	12.2	27	3.71
YY29567		0.47	0.14	2.17	15.4	<0.02	<10	260	0.47	0.23	0.50	0.26	36.7	10.9	35	2.56
YY29568		0.39	0.18	1.94	14.6	<0.02	<10	250	0.37	0.27	0.45	0.24	27.1	10.7	34	2.61
YY29569		0.31	0.15	1.83	11.1	<0.02	<10	250	0.29	0.36	0.42	0.24	24.7	9.1	29	2.73
YY29570		0.40	0.24	2.05	21.6	<0.02	<10	280	0.42	0.27	0.46	0.35	33.8	12.3	34	3.29
YY29571		0.33	0.20	1.83	8.9	<0.02	<10	290	0.37	0.29	0.51	0.19	26.4	17.9	31	2.16
YY29572		0.52	0.06	2.03	8.8	<0.02	<10	200	0.41	0.25	0.40	0.16	31.2	6.9	31	2.37
YY29574		0.46	0.10	1.98	7.9	0.12	<10	220	0.38	0.28	0.41	0.16	30.6	9.5	31	2.25
YY29575		0.50	0.08	1.92	12.2	<0.02	<10	220	0.41	0.22	0.44	0.24	32.4	9.5	31	2.43
YY29576		0.40	0.07	1.83	7.0	<0.02	<10	240	0.29	0.20	0.51	0.13	26.4	6.6	29	2.83
YY29577		0.50	0.08	2.10	10.6	<0.02	<10	230	0.45	0.24	0.51	0.18	30.9	9.9	34	3.86
YY29578		0.47	0.07	1.68	5.2	<0.02	<10	230	0.47	0.14	0.39	0.23	29.5	6.5	29	2.74
YY29579		0.50	0.08	1.73	7.2	<0.02	<10	240	0.45	0.17	0.38	0.21	33.7	7.7	29	2.75
YY29580		0.34	0.05	1.53	6.7	<0.02	<10	160	0.38	0.16	0.33	0.21	29.2	8.8	26	3.40
YY29581		0.20	0.24	1.98	6.6	<0.02	<10	340	0.84	0.21	0.51	0.18	59.1	18.6	33	2.90



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Page: 3 - B
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 16-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211169

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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
YY29560		12.6	2.71	4.45	0.07	0.05	0.07	0.028	0.08	21.7	8.6	0.45	1560	1.61	0.02	0.96
YY29561		10.5	2.87	5.32	0.06	0.05	0.12	0.026	0.09	19.0	11.8	0.60	914	0.75	0.02	1.41
YY29562		16.0	2.88	5.52	0.07	0.04	0.12	0.030	0.10	24.3	11.3	0.54	860	9.28	0.02	1.11
YY29563		12.4	3.10	5.67	0.05	0.03	0.05	0.026	0.11	17.6	12.9	0.57	512	1.34	0.02	1.33
YY29564		11.8	3.41	6.79	0.06	0.03	0.03	0.035	0.10	20.2	14.7	0.56	653	1.02	0.02	1.69
YY29565		14.1	2.90	4.62	0.06	0.03	0.11	0.052	0.09	20.2	9.4	0.52	1740	0.98	0.02	0.98
YY29566		12.2	2.66	5.29	0.06	0.03	0.13	0.148	0.10	19.5	8.7	0.46	2580	1.03	0.02	0.83
YY29567		20.5	3.25	6.15	0.07	0.13	0.05	0.030	0.09	18.4	12.9	0.64	258	0.53	0.02	1.71
YY29568		14.9	2.85	6.19	0.05	0.02	0.06	0.024	0.08	13.7	10.4	0.50	798	1.01	0.02	1.23
YY29569		11.6	2.52	5.76	<0.05	<0.02	0.06	0.023	0.07	12.7	10.3	0.48	844	0.81	0.02	1.00
YY29570		15.8	3.36	6.31	0.07	0.02	0.09	0.029	0.09	16.2	11.9	0.55	509	1.27	0.02	1.38
YY29571		13.2	3.12	6.13	<0.05	0.02	0.07	0.024	0.06	13.4	10.0	0.52	1000	1.35	0.02	1.10
YY29572		12.3	2.77	5.69	0.06	0.08	0.06	0.029	0.08	15.4	11.9	0.57	193	0.46	0.02	1.70
YY29574		11.5	2.75	5.64	0.05	0.02	0.06	0.028	0.08	15.6	10.8	0.52	365	0.61	0.02	1.42
YY29575		15.1	2.92	5.51	0.06	0.08	0.07	0.029	0.08	16.1	11.2	0.54	261	0.51	0.02	1.75
YY29576		9.2	2.69	6.00	0.05	0.05	0.06	0.022	0.10	13.8	11.0	0.61	256	0.98	0.02	1.86
YY29577		12.5	3.69	6.38	0.06	0.07	0.06	0.030	0.10	15.7	14.0	0.66	259	0.89	0.02	2.24
YY29578		12.8	1.99	4.94	0.05	0.07	0.10	0.028	0.08	14.9	13.0	0.52	186	0.71	0.02	1.27
YY29579		13.0	2.30	5.26	0.05	0.04	0.07	0.026	0.07	16.6	12.1	0.49	195	0.77	0.01	1.23
YY29580		11.4	2.67	4.95	0.06	0.04	0.04	0.024	0.07	14.6	11.3	0.45	459	0.89	0.01	1.42
YY29581		24.0	3.02	5.19	0.07	0.02	0.14	0.032	0.05	27.9	9.1	0.38	887	1.51	0.01	0.72



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Page: 3 - C
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 16-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211169

Method Analyte Units LOD	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm	ME-MS41 Ti %
Sample Description	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
YY29560	14.2	930	14.7	12.0	<0.001	0.07	0.61	4.4	0.5	0.4	55.7	<0.01	0.02	3.4	0.049
YY29561	17.3	620	13.0	14.4	<0.001	0.03	0.63	5.0	0.4	0.6	35.9	<0.01	0.02	8.6	0.083
YY29562	17.5	910	17.6	19.1	<0.001	0.07	0.91	6.4	0.3	0.5	51.0	<0.01	0.03	4.2	0.053
YY29563	16.8	510	17.0	19.0	<0.001	0.03	0.74	5.3	<0.2	0.7	31.4	<0.01	0.03	5.8	0.071
YY29564	17.0	540	33.9	19.9	<0.001	0.02	0.55	4.9	0.4	0.8	26.9	<0.01	0.03	6.2	0.093
YY29565	16.1	960	32.5	18.7	<0.001	0.08	1.03	5.0	0.4	0.5	56.0	<0.01	0.03	3.2	0.057
YY29566	14.3	990	136.5	23.1	<0.001	0.06	3.62	4.5	0.4	0.6	43.8	<0.01	0.02	2.9	0.050
YY29567	18.5	600	11.2	16.5	<0.001	0.02	0.84	7.3	0.4	0.6	30.4	<0.01	0.03	9.4	0.121
YY29568	14.8	770	13.3	12.4	<0.001	0.04	0.72	4.6	0.4	0.6	30.5	<0.01	0.03	2.6	0.087
YY29569	13.9	750	12.2	12.4	<0.001	0.04	0.68	3.4	0.3	0.6	28.2	<0.01	0.03	1.2	0.061
YY29570	17.8	850	18.3	15.6	<0.001	0.04	1.01	5.3	0.3	0.6	32.3	<0.01	0.04	2.9	0.082
YY29571	15.5	930	10.3	11.1	<0.001	0.06	0.70	3.8	0.3	0.6	33.9	<0.01	0.02	1.3	0.064
YY29572	16.5	630	12.1	14.7	<0.001	0.02	0.83	4.6	0.5	0.6	25.2	<0.01	0.03	6.6	0.096
YY29574	15.6	700	11.0	13.4	<0.001	0.03	0.71	4.4	0.3	0.6	27.4	<0.01	0.01	3.9	0.081
YY29575	16.1	630	12.2	15.6	<0.001	0.03	1.29	5.7	0.4	0.6	29.0	<0.01	0.02	7.8	0.101
YY29576	15.4	790	11.4	15.5	<0.001	0.03	0.80	4.5	<0.2	0.7	31.4	<0.01	0.02	4.8	0.122
YY29577	18.5	750	13.3	20.7	<0.001	0.03	0.96	5.7	0.3	0.8	31.7	<0.01	0.03	8.8	0.121
YY29578	18.4	600	13.8	15.4	<0.001	0.02	1.14	5.3	<0.2	0.4	24.9	<0.01	0.01	6.7	0.069
YY29579	15.2	640	15.5	13.9	<0.001	0.03	0.81	5.2	0.5	0.5	24.3	<0.01	0.01	5.5	0.059
YY29580	15.0	730	8.6	15.6	<0.001	0.02	0.54	4.0	<0.2	0.6	22.1	<0.01	0.02	4.6	0.088
YY29581	18.4	1290	15.5	11.2	<0.001	0.09	0.56	4.7	0.8	0.4	37.7	<0.01	0.03	1.0	0.038



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Page: 3 - D
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 16-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211169

Sample Description	Method Analyte Units LOD	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
YY29560		0.14	5.50	55	0.20	11.70	58	1.6	0.004
YY29561		0.13	3.58	61	0.19	8.63	71	2.1	0.005
YY29562		0.18	6.56	62	0.28	13.65	75	1.4	0.004
YY29563		0.20	4.08	65	0.31	7.05	87	1.1	0.005
YY29564		0.20	2.19	77	1.21	7.89	109	1.4	0.005
YY29565		0.17	5.19	60	0.19	11.80	116	1.0	0.007
YY29566		0.21	3.56	56	0.19	10.85	221	0.7	0.061
YY29567		0.16	4.59	80	0.17	9.21	73	5.6	0.005
YY29568		0.16	2.71	66	0.17	6.20	64	0.8	0.007
YY29569		0.16	2.54	64	0.16	5.84	59	<0.5	0.003
YY29570		0.19	2.73	78	0.20	8.45	79	0.9	0.004
YY29571		0.17	2.33	66	0.18	6.14	60	0.7	0.003
YY29572		0.17	2.18	63	0.46	6.18	64	3.0	0.003
YY29574		0.17	2.17	63	0.21	6.16	61	1.1	0.006
YY29575		0.17	3.92	67	0.16	7.58	74	3.6	0.007
YY29576		0.20	1.67	71	0.38	6.45	69	2.1	0.004
YY29577		0.22	3.76	84	0.22	7.08	75	3.1	0.003
YY29578		0.17	3.87	56	0.16	6.29	66	3.1	0.004
YY29579		0.15	3.12	55	0.20	7.62	66	1.9	0.003
YY29580		0.18	1.86	60	3.54	6.78	57	1.7	0.006
YY29581		0.21	9.33	56	0.17	14.25	49	0.7	0.004



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 16-NOV-2020
Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211169

	CERTIFICATE COMMENTS
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. Applies to Method: LOG-22 SCR-41 WEI-21</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Applies to Method: Au-ICP21 ME-MS41</p>

APPENDIX V

DIGITAL COPY OF ROCK SAMPLE DESCRIPTIONS

APPENDIX VI

ROCK SAMPLE CERTIFICATES OF ANALYSIS



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Page: 1
 Total # Pages: 2 (A - E)
 Plus Appendix Pages
 Finalized Date: 21-NOV-2020
 Account: RCM

CERTIFICATE WH20211179

Project: Idaho Creek

This report is for 38 Rock samples submitted to our lab in Whitehorse, YT, Canada on 21-SEP-2020.

The following have access to data associated with this certificate:

ANDREW CARNE	ADAM COULTER
--------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	

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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Page: 2 - A
 Total # Pages: 2 (A - E)
 Plus Appendix Pages
 Finalized Date: 21-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211179

Sample Description	Method	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	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	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
B0051416		2.54	0.16	0.24	16.2	<0.02	<10	160	0.29	0.14	0.04	7.60	29.4	1.6	6	0.83
B0051417		2.02	0.16	0.29	15.6	<0.02	<10	40	0.26	0.37	0.04	0.07	13.15	0.5	8	0.54
B0051418		2.13	0.05	0.21	25.3	<0.02	<10	50	0.20	0.08	0.05	0.09	30.6	0.7	9	0.83
B0051419		2.14	0.13	0.34	1.2	<0.02	<10	60	0.37	0.10	0.05	0.09	18.70	1.0	11	0.65
B0051420		1.62	3.15	0.27	1120	0.08	<10	290	0.39	0.48	0.04	12.60	20.0	4.3	4	2.38
B0051421		1.14	15.05	0.24	1040	0.34	<10	270	0.39	1.01	0.06	77.8	11.40	3.2	11	1.61
B0051422		1.44	0.24	0.25	19.4	<0.02	<10	60	0.17	1.77	0.04	0.21	7.23	1.0	14	0.48
B0051423		0.72	9.41	0.37	2130	0.87	<10	50	0.30	0.48	0.05	20.9	17.90	5.0	6	1.60
B0051424		1.51	0.09	2.97	4.8	<0.02	<10	750	0.26	0.91	1.82	0.11	32.3	10.8	48	3.65
B0051425		1.25	0.09	0.15	5.1	<0.02	<10	50	0.10	0.10	0.03	0.06	7.28	0.5	11	0.58
B0051426		0.79	31.9	0.34	563	0.13	10	750	0.39	0.10	0.05	11.20	11.95	6.5	10	0.89
B0051427		0.73	8.06	0.32	345	0.03	<10	1170	1.16	0.30	0.04	5.21	26.4	3.4	8	0.99
B0051428		1.22	0.58	0.11	37.0	<0.02	<10	60	0.09	2.62	0.01	0.25	2.21	0.5	22	0.25
B0051429		1.22	76.6	0.14	846	0.16	<10	160	0.44	0.07	0.07	3.30	11.45	4.3	11	1.25
B0051430		1.54	18.75	0.18	638	0.09	<10	150	1.34	0.05	2.54	1.70	12.05	3.4	7	1.40
B0051431		1.22	43.4	0.15	902	0.72	<10	70	0.30	0.05	0.04	1.23	12.15	2.7	15	1.49
B0051432		0.75	52.6	0.13	1020	0.20	<10	70	0.32	0.06	0.04	2.00	9.15	3.4	12	1.22
B0051433		0.56	8.46	0.14	477	0.09	<10	70	0.70	0.03	5.15	0.80	9.31	1.9	7	0.96
B0051434		1.23	19.05	0.17	719	0.12	<10	130	0.42	0.06	0.54	2.10	10.45	3.3	10	1.27
B0051435		1.14	63.4	0.16	1330	0.15	<10	160	0.56	0.08	5.55	3.00	15.50	2.2	3	1.77
B0051436		1.45	8.10	0.11	527	0.06	<10	40	0.50	0.04	3.11	0.97	8.35	1.9	13	1.04
B0051437		1.84	0.14	0.14	3.6	<0.02	<10	20	0.18	0.04	0.39	0.09	3.56	0.3	12	0.81
B0051438		1.07	0.50	0.26	14.5	<0.02	<10	40	0.14	0.34	0.02	0.32	10.65	0.7	9	0.74
B0051439		1.90	0.19	0.89	43.8	<0.02	<10	250	0.65	0.07	2.83	3.80	39.6	9.6	7	3.18
B0051440		1.04	2.52	0.51	657	0.07	<10	220	0.52	0.08	2.19	14.10	32.1	7.6	7	2.03
K293751		1.65	0.04	2.63	2.4	<0.02	<10	590	0.27	0.05	1.21	0.09	29.7	7.7	8	4.93
K293753		0.85	0.04	1.36	2.4	<0.02	<10	330	0.28	0.11	0.35	0.08	42.2	6.3	10	4.95
K293754		2.48	0.03	1.03	1.3	<0.02	<10	240	0.26	0.06	0.45	0.05	40.8	6.1	11	1.15
K293755		3.03	0.06	1.33	0.9	<0.02	<10	290	0.21	0.23	0.47	0.04	37.9	6.7	11	3.30
K293756		1.59	0.03	1.79	1.1	<0.02	<10	280	0.27	0.07	1.09	0.11	40.0	7.3	11	3.16
K293757		1.56	0.03	2.16	1.2	<0.02	<10	820	0.28	0.06	0.86	0.10	40.3	8.1	14	3.65
K293758		1.52	0.02	1.59	1.0	<0.02	<10	380	0.31	0.07	0.40	0.08	27.9	8.4	10	3.49
K293820		1.52	0.03	1.23	0.7	<0.02	<10	300	0.16	0.06	0.41	0.06	37.5	5.7	11	3.58
K293821		2.81	0.02	1.43	0.8	<0.02	<10	390	0.24	0.05	0.55	0.07	45.1	6.3	12	2.72
K293822		1.41	0.01	0.33	1.5	<0.02	<10	60	0.11	0.08	0.04	0.02	30.4	0.6	7	2.63
K293823		2.17	0.02	0.21	1.6	<0.02	<10	40	0.16	0.04	0.03	0.17	21.0	0.4	6	0.88
K293824		3.92	0.08	2.42	0.7	<0.02	<10	820	0.29	0.22	0.98	0.06	27.8	8.6	13	4.12
K293825		6.11	0.05	1.50	0.7	<0.02	<10	210	0.30	0.12	1.07	0.09	38.8	7.6	10	2.56



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Page: 2 - B
 Total # Pages: 2 (A - E)
 Plus Appendix Pages
 Finalized Date: 21-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211179

Sample Description	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
Method Analyte Units 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
B0051416	58.9	0.62	0.84	<0.05	0.30	0.02	0.005	0.12	13.5	0.5	0.01	3500	31.7	0.03	0.16
B0051417	21.6	0.87	0.82	<0.05	0.37	0.03	<0.005	0.14	5.2	0.5	0.01	93	2.19	0.05	1.22
B0051418	13.5	0.75	0.77	<0.05	0.43	<0.01	<0.005	0.13	15.2	0.5	0.01	89	22.3	0.04	0.39
B0051419	63.0	1.13	1.10	<0.05	0.31	<0.01	0.005	0.15	7.0	1.9	0.03	146	2.62	0.06	0.15
B0051420	11.0	2.02	0.89	<0.05	0.09	0.77	0.023	0.19	10.8	0.5	0.01	2820	12.40	<0.01	<0.05
B0051421	14.3	1.49	0.82	<0.05	0.09	2.17	0.042	0.15	6.0	0.5	0.02	5370	7.15	<0.01	<0.05
B0051422	48.2	1.15	0.75	<0.05	0.22	0.01	0.007	0.14	2.6	0.5	0.01	111	158.0	0.05	0.41
B0051423	19.3	3.99	1.14	<0.05	0.08	0.70	0.029	0.14	9.1	1.0	0.04	3160	3.90	<0.01	0.07
B0051424	25.2	3.66	8.11	0.08	0.24	0.01	0.015	0.64	17.1	11.3	1.03	520	2.59	0.35	0.48
B0051425	7.9	0.67	0.41	<0.05	0.15	0.02	<0.005	0.10	3.0	0.2	0.01	151	36.6	0.03	0.14
B0051426	11.7	2.92	1.05	<0.05	0.07	0.30	0.015	0.11	6.4	1.3	0.02	8480	6.51	<0.01	0.05
B0051427	14.8	4.09	1.01	<0.05	0.08	0.68	0.008	0.15	15.0	0.7	0.02	10300	14.15	<0.01	0.07
B0051428	8.0	1.11	0.35	<0.05	0.02	0.06	<0.005	0.08	1.1	0.2	<0.01	538	2.56	<0.01	0.06
B0051429	28.3	3.45	0.47	<0.05	0.08	0.17	<0.005	0.07	7.5	1.0	0.02	2880	5.28	<0.01	<0.05
B0051430	16.6	6.42	0.73	<0.05	0.09	0.10	<0.005	0.09	7.9	0.7	0.43	12950	6.02	<0.01	<0.05
B0051431	14.6	2.32	0.45	<0.05	0.07	0.11	<0.005	0.08	8.1	0.5	0.01	969	2.83	<0.01	0.05
B0051432	22.5	3.52	0.49	<0.05	0.06	0.13	<0.005	0.07	5.7	0.6	0.01	3620	4.35	<0.01	<0.05
B0051433	6.9	3.64	0.58	<0.05	0.07	0.07	<0.005	0.07	5.9	0.4	0.74	10250	2.61	<0.01	<0.05
B0051434	8.7	3.29	0.57	<0.05	0.10	0.12	<0.005	0.09	6.9	0.6	0.04	4590	4.87	<0.01	0.05
B0051435	7.1	3.98	0.73	<0.05	0.09	0.10	<0.005	0.10	9.5	0.3	0.31	16650	2.26	<0.01	<0.05
B0051436	4.2	2.90	0.48	<0.05	0.06	0.07	<0.005	0.06	5.0	0.5	0.32	8430	2.98	<0.01	<0.05
B0051437	4.1	0.62	0.32	<0.05	0.06	0.06	<0.005	0.10	2.0	0.4	0.01	180	0.97	0.01	0.10
B0051438	16.0	0.92	0.62	<0.05	0.39	0.05	<0.005	0.16	4.3	0.5	0.01	234	0.84	0.03	0.12
B0051439	6.6	3.29	2.81	<0.05	0.27	0.09	0.027	0.30	21.1	2.9	0.34	1320	0.39	0.01	0.06
B0051440	8.5	3.13	1.23	<0.05	0.18	0.04	0.056	0.33	17.9	0.7	0.09	5760	1.51	<0.01	<0.05
K293751	2.4	3.30	7.68	0.08	0.59	0.01	0.019	0.70	16.4	14.3	0.86	581	0.79	0.29	0.37
K293753	1.7	2.78	4.99	0.07	0.16	0.01	0.021	0.62	22.4	8.2	0.50	595	0.51	0.16	0.66
K293754	2.2	2.51	4.37	0.08	0.59	0.01	0.015	0.17	21.8	12.0	0.53	493	0.67	0.11	0.46
K293755	2.4	2.67	5.18	0.10	0.15	0.01	0.014	0.51	22.7	16.5	0.66	589	0.63	0.14	0.43
K293756	4.9	3.03	6.12	0.08	0.11	0.01	0.015	0.19	21.1	10.5	0.64	662	1.08	0.18	0.46
K293757	2.2	3.16	6.63	0.10	0.70	0.03	0.020	0.75	21.3	12.1	0.70	712	1.85	0.27	0.42
K293758	2.9	3.01	5.82	0.07	0.19	0.01	0.028	0.44	12.6	11.9	0.69	728	0.35	0.16	0.49
K293820	1.6	2.54	4.70	0.09	0.21	<0.01	0.015	0.53	22.2	8.9	0.55	603	0.50	0.15	0.43
K293821	3.0	2.58	5.23	0.10	0.36	<0.01	0.018	0.59	27.2	17.2	0.65	568	0.84	0.18	0.60
K293822	5.1	1.62	2.54	0.05	0.11	<0.01	0.013	0.19	14.0	3.1	0.02	446	0.75	0.05	1.36
K293823	1.6	0.99	0.98	<0.05	0.26	1.21	0.007	0.12	8.9	0.5	0.01	189	0.40	0.04	0.43
K293824	9.2	3.37	6.99	0.09	0.32	0.01	0.022	0.75	14.7	12.6	0.79	607	0.47	0.29	0.95
K293825	1.2	3.04	5.56	0.08	0.19	0.01	0.020	0.29	22.5	9.1	0.83	668	0.81	0.09	0.13



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Page: 2 - C
 Total # Pages: 2 (A - E)
 Plus Appendix Pages
 Finalized Date: 21-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211179

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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
B0051416		2.1	60	10.7	5.7	0.001	<0.01	8.38	0.8	0.3	<0.2	8.9	<0.01	0.02	23.0	<0.005
B0051417		1.3	20	10.2	6.1	<0.001	0.01	6.48	0.3	0.2	<0.2	3.8	<0.01	0.02	45.4	<0.005
B0051418		1.1	70	9.2	6.6	0.001	0.02	0.45	0.9	<0.2	<0.2	4.7	<0.01	0.01	21.5	<0.005
B0051419		1.8	60	11.1	8.4	<0.001	0.03	0.44	1.2	0.2	0.3	4.9	<0.01	0.01	22.2	<0.005
B0051420		1.6	230	183.5	10.1	<0.001	0.46	21.0	2.2	<0.2	0.4	13.0	<0.01	0.03	4.9	<0.005
B0051421		1.6	100	1115	7.8	<0.001	0.75	50.1	1.6	0.3	0.5	14.6	<0.01	0.08	3.6	<0.005
B0051422		1.3	40	13.5	6.3	0.009	0.01	5.18	0.5	<0.2	<0.2	4.6	<0.01	0.11	32.4	<0.005
B0051423		3.6	180	587	8.3	0.001	2.22	44.5	2.5	<0.2	0.5	10.4	<0.01	0.02	7.2	<0.005
B0051424		13.5	1380	6.2	41.7	0.001	0.08	0.23	4.4	0.3	0.7	199.5	<0.01	0.01	8.8	0.253
B0051425		1.3	20	5.3	4.5	0.001	0.02	0.85	0.4	<0.2	<0.2	3.3	<0.01	0.01	13.0	<0.005
B0051426		6.0	190	1555	5.5	0.001	0.26	24.3	3.1	<0.2	1.2	25.7	<0.01	0.01	4.7	<0.005
B0051427		3.3	130	132.0	8.1	<0.001	0.09	13.55	2.5	0.2	0.4	24.8	<0.01	0.01	8.7	<0.005
B0051428		1.7	10	19.2	3.8	<0.001	0.01	4.87	0.3	<0.2	<0.2	1.5	<0.01	0.08	1.7	<0.005
B0051429		5.6	60	2610	3.4	<0.001	1.23	46.1	1.5	0.4	0.5	16.3	<0.01	<0.01	4.2	<0.005
B0051430		5.0	90	457	4.3	<0.001	0.49	15.15	5.7	<0.2	0.4	70.2	<0.01	<0.01	4.6	<0.005
B0051431		4.2	60	908	3.8	<0.001	0.45	24.1	1.1	0.2	0.4	7.7	<0.01	<0.01	4.3	<0.005
B0051432		4.9	50	1945	3.3	<0.001	1.14	36.8	1.3	<0.2	0.6	15.2	<0.01	<0.01	3.8	<0.005
B0051433		3.2	50	204	3.3	<0.001	0.50	9.93	3.4	0.2	0.3	53.2	<0.01	0.01	4.4	<0.005
B0051434		5.4	50	890	3.9	<0.001	0.44	17.10	2.3	<0.2	0.3	24.1	<0.01	<0.01	6.0	<0.005
B0051435		2.5	80	1310	5.3	<0.001	0.79	59.4	3.2	0.2	0.4	66.2	<0.01	0.01	6.7	<0.005
B0051436		3.8	40	296	3.3	<0.001	0.38	16.50	1.7	0.2	0.2	36.9	<0.01	<0.01	3.4	<0.005
B0051437		0.9	<10	7.0	4.7	<0.001	0.01	1.03	0.1	<0.2	<0.2	12.3	<0.01	<0.01	4.8	<0.005
B0051438		1.5	10	24.7	8.5	<0.001	0.02	4.03	0.2	<0.2	<0.2	3.4	<0.01	0.01	17.3	<0.005
B0051439		6.0	860	10.3	18.3	<0.001	0.26	2.61	7.3	<0.2	0.2	102.5	<0.01	<0.01	11.9	0.015
B0051440		10.4	770	174.0	15.6	<0.001	1.05	4.74	4.2	<0.2	0.3	80.5	<0.01	<0.01	12.4	<0.005
K293751		2.5	620	4.1	45.3	<0.001	0.02	0.19	6.4	<0.2	0.7	107.0	<0.01	<0.01	9.0	0.150
K293753		2.8	360	5.9	54.9	<0.001	0.02	0.66	6.2	0.2	1.2	29.8	<0.01	0.01	20.5	0.125
K293754		4.0	670	6.7	9.7	<0.001	0.01	0.27	3.5	<0.2	0.6	35.4	<0.01	<0.01	14.9	0.080
K293755		2.7	380	4.8	45.4	<0.001	0.02	0.20	3.9	<0.2	0.9	29.3	<0.01	<0.01	16.6	0.146
K293756		4.5	1180	6.9	13.2	<0.001	0.02	0.16	3.9	<0.2	0.6	120.5	0.01	<0.01	11.0	0.109
K293757		5.1	610	4.7	54.7	<0.001	0.01	0.09	5.7	0.2	0.9	87.8	<0.01	<0.01	12.9	0.189
K293758		3.2	450	4.4	33.2	<0.001	0.01	0.56	6.9	<0.2	1.0	32.8	<0.01	<0.01	14.9	0.101
K293820		2.5	330	5.4	46.3	<0.001	0.01	0.11	4.5	0.2	0.9	29.0	<0.01	<0.01	24.6	0.126
K293821		2.8	430	6.8	52.0	<0.001	0.02	0.10	5.0	0.2	1.1	40.5	<0.01	<0.01	20.1	0.154
K293822		1.1	40	7.0	15.6	<0.001	0.01	0.54	2.1	<0.2	0.7	4.0	<0.01	<0.01	14.5	0.009
K293823		1.0	30	5.8	6.1	<0.001	0.01	0.28	1.0	<0.2	0.3	3.1	<0.01	<0.01	12.2	<0.005
K293824		4.6	800	3.8	49.7	<0.001	0.02	0.13	6.2	0.2	0.7	104.5	<0.01	<0.01	10.7	0.194
K293825		2.3	450	6.0	22.2	<0.001	0.01	0.14	7.0	<0.2	0.6	38.0	<0.01	<0.01	19.7	0.054



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Page: 2 - D
 Total # Pages: 2 (A - E)
 Plus Appendix Pages
 Finalized Date: 21-NOV-2020
 Account: RCM

Project: Idaho Creek
CERTIFICATE OF ANALYSIS WH20211179

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-AA23	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Tl	U	V	W	Y	Zn	Zr	Au	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%
		0.02	0.05	1	0.05	0.05	2	0.5	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01
B0051416		0.09	11.75	2	0.08	9.37	362	6.8	<0.005	75.6	13.00	0.98	0.78	0.05	2.41	5.61
B0051417		0.06	7.79	1	0.15	7.42	11	5.7	<0.005	75.9	12.75	1.27	0.66	0.04	3.09	4.62
B0051418		0.05	5.06	2	0.13	8.41	13	11.1	<0.005	74.9	13.30	1.16	0.93	0.04	2.69	5.64
B0051419		0.08	6.83	5	0.06	6.91	9	7.7	<0.005	75.6	13.00	1.69	0.95	0.08	2.74	5.14
B0051420		0.27	2.38	6	0.38	5.68	899	3.3	0.078	82.9	8.02	3.44	0.07	0.27	0.06	2.23
B0051421		0.26	4.88	4	0.31	4.43	4410	3.3	0.361	88.2	4.95	2.37	0.11	0.17	0.04	1.32
B0051422		0.05	7.89	4	0.36	4.99	17	5.5	<0.005	77.4	12.50	1.74	0.88	0.02	2.70	4.91
B0051423		0.38	3.06	10	0.25	3.95	1280	2.5	0.981	80.1	7.31	5.92	0.23	0.22	0.27	1.64
B0051424		0.44	1.45	85	0.27	7.68	54	6.6	<0.005	58.9	16.75	7.29	6.00	3.41	3.28	2.38
B0051425		0.06	17.55	1	0.19	3.55	5	2.5	<0.005	87.0	7.32	1.03	0.21	0.04	1.67	2.89
B0051426		0.37	5.11	12	0.25	7.36	1160	2.8	0.135	86.5	4.46	4.15	0.09	0.11	0.05	0.96
B0051427		0.65	10.70	7	0.42	12.70	622	4.0	0.050	83.7	5.31	5.93	0.08	0.17	0.05	1.39
B0051428		0.05	1.52	1	0.42	1.72	33	0.7	0.007	96.5	2.19	1.65	0.02	0.03	0.04	1.00
B0051429		0.49	4.97	6	0.12	8.25	296	3.0	0.185	89.1	2.94	4.99	0.11	0.09	0.04	0.58
B0051430		0.31	8.12	14	0.36	27.5	226	3.7	0.107	73.7	3.07	9.45	3.69	0.86	0.04	0.69
B0051431		0.26	4.19	3	0.13	4.16	173	3.1	0.173	90.7	3.32	3.42	0.07	0.08	0.04	0.70
B0051432		0.27	4.29	6	0.10	5.52	248	2.5	0.281	89.9	2.66	5.16	0.07	0.07	0.05	0.60
B0051433		0.18	5.21	15	0.16	19.00	79	2.9	0.101	72.1	2.68	5.22	7.39	1.30	0.04	0.56
B0051434		0.31	4.46	12	0.13	11.80	212	2.9	0.129	86.7	3.82	4.73	0.74	0.15	0.04	0.97
B0051435		0.18	5.93	10	0.17	17.85	206	3.5	0.165	68.6	3.69	5.79	8.20	0.64	0.02	0.87
B0051436		0.20	3.60	8	0.14	10.90	98	2.4	0.070	81.1	2.27	4.13	4.28	0.60	0.04	0.54
B0051437		0.06	2.81	1	0.06	5.47	9	1.1	<0.005	88.8	5.57	0.93	0.54	0.03	0.42	2.81
B0051438		0.09	8.68	1	0.11	3.78	36	7.1	<0.005	78.4	10.85	1.41	0.09	0.08	1.71	4.66
B0051439		0.35	6.46	38	0.17	12.35	462	12.2	0.009	60.2	15.55	5.10	4.03	0.78	0.58	3.01
B0051440		0.26	2.60	15	0.07	12.60	1380	7.4	0.070	62.4	15.35	4.88	3.00	0.67	0.08	4.81
K293751		0.38	1.57	71	0.06	8.90	73	19.7	<0.005	65.0	16.30	5.57	4.33	1.87	3.08	2.48
K293753		0.43	4.14	49	0.20	9.88	45	4.1	<0.005	70.0	15.00	4.22	2.89	0.96	3.12	2.93
K293754		0.08	2.59	42	0.31	8.26	42	15.3	<0.005	67.9	15.35	4.26	3.08	1.22	3.25	3.65
K293755		0.37	4.92	54	0.30	6.98	46	2.2	<0.005	68.0	14.80	4.58	3.41	1.41	3.02	3.01
K293756		0.15	2.01	52	0.40	10.45	56	7.6	<0.005	64.5	16.10	5.43	4.09	1.80	3.34	3.25
K293757		0.47	2.09	62	0.20	9.38	59	23.7	<0.005	66.1	15.70	5.37	3.95	1.67	3.13	2.99
K293758		0.26	2.62	65	0.16	6.45	50	3.1	<0.005	68.5	15.50	4.72	3.12	1.28	3.17	2.68
K293820		0.36	2.46	51	0.11	7.46	44	3.7	<0.005	70.4	14.70	4.21	2.99	1.19	3.00	3.67
K293821		0.40	3.01	57	0.15	8.65	43	9.6	<0.005	68.6	14.80	4.24	3.32	1.38	3.02	3.40
K293822		0.16	1.78	1	0.16	4.52	19	2.8	<0.005	76.7	12.75	2.52	0.76	0.06	3.58	4.22
K293823		0.06	1.31	1	0.05	2.36	19	6.5	<0.005	77.6	12.95	1.55	0.54	0.02	3.42	4.69
K293824		0.47	1.48	77	0.13	7.54	56	9.7	<0.005	63.3	16.55	6.14	4.73	2.03	2.99	2.40
K293825		0.20	3.73	60	0.05	9.23	53	3.7	<0.005	68.0	15.05	4.69	3.19	1.54	3.00	2.98



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Page: 2 - E
 Total # Pages: 2 (A - E)
 Plus Appendix Pages
 Finalized Date: 21-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211179

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		Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	LOI %	Total %
		0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
B0051416		0.002	0.05	0.45	0.02	0.01	0.09	0.77	99.82
B0051417		0.002	0.03	0.01	<0.01	<0.01	0.02	0.55	98.94
B0051418		0.003	0.05	0.01	0.02	0.01	0.11	0.50	99.36
B0051419		0.003	0.06	0.02	0.01	0.01	0.08	0.53	99.91
B0051420		0.002	0.29	0.38	0.07	<0.01	0.10	2.65	100.48
B0051421		0.003	0.12	0.70	0.02	0.01	0.34	2.21	100.56
B0051422		0.003	0.05	0.02	<0.01	0.01	0.07	0.80	101.10
B0051423		0.002	0.17	0.43	0.06	<0.01	0.12	3.85	100.32
B0051424		0.011	0.77	0.14	0.34	0.08	0.24	1.18	100.77
B0051425		0.006	0.02	0.02	0.02	0.01	0.08	0.36	100.68
B0051426		0.003	0.10	1.07	0.05	0.01	0.27	2.60	100.42
B0051427		0.002	0.08	1.32	0.05	<0.01	0.15	3.17	101.40
B0051428		0.004	0.01	0.07	0.01	<0.01	0.02	0.17	101.71
B0051429		0.004	0.05	0.38	0.01	<0.01	0.04	2.37	100.70
B0051430		0.002	0.05	1.84	0.04	0.01	0.03	5.61	99.08
B0051431		0.003	0.06	0.13	0.02	<0.01	0.02	1.78	100.34
B0051432		0.002	0.05	0.48	0.02	<0.01	0.02	2.15	101.23
B0051433		0.002	0.05	1.37	0.02	0.01	0.02	8.50	99.26
B0051434		0.003	0.06	0.60	0.02	<0.01	0.03	2.39	100.25
B0051435		<0.002	0.07	2.24	0.02	0.01	0.03	8.05	98.23
B0051436		0.004	0.03	1.12	0.01	0.01	0.02	4.85	99.00
B0051437		0.002	0.01	0.02	<0.01	<0.01	0.01	0.83	99.97
B0051438		0.002	0.04	0.03	0.01	<0.01	0.04	0.85	98.17
B0051439		0.003	0.53	0.18	0.20	0.02	0.19	7.77	98.14
B0051440		0.006	0.52	0.78	0.18	0.01	0.15	5.23	98.07
K293751		0.002	0.58	0.10	0.15	0.05	0.23	1.46	101.20
K293753		0.002	0.36	0.08	0.09	0.03	0.18	1.13	100.99
K293754		0.002	0.39	0.08	0.17	0.05	0.24	0.93	100.57
K293755		0.003	0.38	0.10	0.09	0.03	0.17	0.74	99.74
K293756		0.002	0.53	0.12	0.28	0.07	0.24	1.23	100.98
K293757		0.003	0.49	0.12	0.15	0.05	0.25	0.78	100.75
K293758		0.002	0.43	0.10	0.12	0.04	0.15	1.39	101.20
K293820		0.002	0.33	0.10	0.07	0.03	0.17	0.67	101.53
K293821		0.004	0.38	0.09	0.10	0.03	0.18	0.87	100.41
K293822		0.002	0.04	0.08	0.03	0.01	0.13	0.37	101.25
K293823		<0.002	0.02	0.03	0.01	0.01	0.08	0.60	101.52
K293824		0.003	0.59	0.11	0.18	0.05	0.21	1.36	100.64
K293825		0.002	0.43	0.09	0.12	0.04	0.18	2.42	101.73



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Page: Appendix 1
 Total # Appendix Pages: 1
 Finalized Date: 21-NOV-2020
 Account: RCM

Project: Idaho Creek

CERTIFICATE OF ANALYSIS WH20211179

	CERTIFICATE COMMENTS								
	ANALYTICAL COMMENTS								
Applies to Method:	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41								
	LABORATORY ADDRESSES								
Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	PUL-31	PUL-QC	SPL-21	WEI-21	
CRU-31	CRU-QC	LOG-21	PUL-31						
PUL-QC	SPL-21	WEI-21							
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA23</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS41</td> <td style="width: 33%;">OA-GRA05</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	Au-AA23	ME-ICP06	ME-MS41	OA-GRA05	TOT-ICP06			
Au-AA23	ME-ICP06	ME-MS41	OA-GRA05						
TOT-ICP06									