YMEP 22-034 REPORT

describing

GEOLOGICAL MAPPING, PROSPECTING AND SOIL GEOCHEMICAL SAMPLING

at the

GROUNDHOG PROPERTY

Work performed from July 26 to August 4, 2022

CYR 1-34	YD07821-YD07854
CYRX 1-2	YD42085-YD42086
CYRX 3-63	YD143403-YD143463
SEA 1-104	YC72460-YD143463
SEA 105-108	YC73866-YD143463
SEA 109-120	YC98399-YC98410

NTS 105F/10
Latitude 61°37'N; Longitude 132°52'W

located in the

Watson Lake Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

HONEY BADGER SILVER INC.

by

K. Carroll, B.Sc.

January 2023

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INTRODUCTION

The Groundhog property covers silver-lead-zinc ± gold showings located in the Pelly Mountains of Yukon Territory. It is wholly owned by Honey Badger Silver Inc.

This report describes a program of geological mapping, prospecting and soil geochemical sampling conducted by Archer, Cathro & Associates (1981) Limited on behalf of Honey Badger from July 26 to August 4, 2022. The author participated in the program and interpreted all data from this work. The author's Statement of Qualifications appears in Appendix I, while a YMEP Statement of Expenditures is located in Appendix II.

PROPERTY LOCATION, CLAIM AND LAND USE DATA, AND ACCESS

The Groundhog property consists of 217 contiguous mineral claims located 50 km southwest of Ross River in southeastern Yukon, at latitude 61° 37' north and longitude 132° 52' west on NTS 105F/10 (Figure 1). The claims are registered with the Watson Lake Mining Recorder in the name of Honey Badger. Claim registration data are listed below while the locations of individual claims are shown on Figure 2.

Claim Name	Grant Number	Expiry Date*
CYR 1-34	YD07821-YD07854	March 11, 2032
CYRX 1-2	YD42085-YD42086	March 11, 2032
CYRX 3-63	YD143403-YD143463	March 11, 2032
SEA 1-104	YC72460-YD143463	March 5, 2032
SEA 105-108	YC73866-YD143463	March 5, 2033
SEA 109-120	YC98399-YC98410	March 5, 2033

*Expiry dates do not include assessment credits for 2022 work.

Work in 2022 was conducted from a road-accessible tent camp established on the property in a clearing off the Groundhog Creek access road. Work areas were accessed on foot and using a Kubota RTV 900 on existing roads and UTV trails. The property lies within the traditional territory of the Liard First Nation, Kaska Dena Council and Ross River Dena Council. The 2022 work program was conducted under Class 1 Notification Q2022_0165.

HISTORY

Historical exploration in the region outlined two main areas of silver-lead-zinc±gold mineralization, divided into northern and southern halves by Groundhog Creek (collectively referred to as the Groundhog Silver Camp). In total, about 100 showings have been discovered across the Groundhog Silver Camp to date; however, the showings located north of Groundhog Creek presently lie within an active staking moratorium area pending settlement of First Nations land claims. The Groundhog property covers most of the showings identified south of Groundhog Creek (Figure 3).

HONEY BADGER SILVER INC.

FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

GROUNDHOG PROPERTY

0 100 200 km

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: JANUARY 2023



610000 615000 620000

6835000

6830000

True North

Grid North 0°51'

Magnetic North 19° 23' E

Annual change 0.20' W

Groundhog boundary

Quartz claims

Surveyed roads

HONEY BADGER SILVER INC.

FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS

GROUNDHOG PROPERTY

0 1 2 km

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: January 2023

610000
615000
620000
6835000
6830000

True North
Grid North 0°51'
Magnetic North 19° 23' E
Annual change 0.20' W

PASS
H-7
PIKA TREND
PIKA
NOSE
CIRQUE
PN
BILL
LUCKY
JILL
CRACK
STRAT
OTTER
LUCKY TREND
RUZSY
BP
HORN
ROB 2
IRISH
GALENA
SHEEP TREND
SHEEP
SCREE
GEO
AZTEK
SP
JTG
M
HO
JW
MUKLUK
FOGGY
ROB 1

Showings
Mineralized zones
Unnamed zones
Trenches
Roads_Surveyed
Groundhog_boundary

HONEY BADGER SILVER INC.

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY SHOWINGS

GROUNDHOG PROPERTY

0 1 2 km

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: January 2023

Mineral exploration in the Groundhog Creek and Seagull Lake area was first documented in 1956 after the discovery of galena veins by prospectors Harry and Pete Versluce on behalf of the British-Yukon Exploration Company. Claims were restaked several times in the area, but eventually the Versluce brothers vended newly staked claims to Canol Mines Ltd. in 1966 (Fowler and Ramaekers, 1988).

Between 1966 and 1969, Canol Mines had increased its claim holdings in the area significantly (521 claims) and conducted surface exploration and diamond drilling programs. Several occurrences were identified; however, limited record of this work is available (Fowler and Ramaekers, 1988). No further work was completed by the company after 1969.

In 1977, Noranda Exploration Company Ltd. staked the Peak 1-16 claims between Groundhog and Seagull creeks, which overlap with the northeastern part of the current Groundhog claims. A program of line cutting, geological mapping, prospecting, soil geochemical sampling and a CEM geophysical survey was completed. Several boulders of mineralized float and lead-zinc anomalies were identified from this work in the area of Anomaly Creek (Fairbank and Bradish, 1977).

In 1978, Noranda staked additional claims and completed a diamond drilling program to investigate the geochemical and geophysical anomalies identified in the previous year. Three diamond drill holes (totalling 88 m) were drilled, which returned a peak intercept of 42.5 g/t silver and 0.72% lead over 3.04 m (Macdonald, 1979).

In 1979, Noranda optioned the H claim group from Canol Mines, which were adjacent to the Peak claims, and completed a program of prospecting, trenching and road building to test for mineralization on the H 1-4 claims. Six diamond drill holes (totalling 485 m) were subsequently completed in an area of mineralized float, known as the H-Zone (also known as the Pinnacle Occurrence), on the H 1-2 claims. The best results from this drilling came from zones of mineralized and brecciated chert, which yielded 214 g/t silver and 1.13% lead over 0.97 m; 37 g/t silver, 2.18% lead and 4.98% zinc over 1.52 m; and 145 g/t silver, 8% lead and 3.84% zinc over 1.52 m (Macdonald, 1979 and 1980a).

In 1979, silver mineralization was discovered by the Versluce brothers (H and P Holdings) approximately four kilometres southwest of the H and Peak claims. Following the discovery of several galena-rich float trains, H and P Holdings staked the Jeff, Jim and Hi Grade claims. (Fowler and Ramaekers, 1988). The area of these claims now lies in the west-central part of the current Groundhog property.

In 1980, Noranda completed two additional diamond drill holes at the H-Zone, but only limited samples were collected which did not yield significant results (Macdonald, 1980b). Noranda was unable to negotiate a continued option agreement on the H claims after 1980 and no further work was completed by the company in the area.

In 1981, Great Western Petroleum Corp. and Lornex Mining Corp. formed the Seagull Joint Venture and staked the Lorne claims to cover geochemically anomalous silt samples collected in the headwaters of Groundhog Creek by a Government of Canada (GSC) silt geochemical survey over NTS Map Sheet 105F. These claims surrounded the Jeff and Hi Grade claims. The joint venture completed a program of geological mapping and soil and silt geochemical sampling. This work found scattered mineralized float which was all believed to have originated from the Jeff claims, except for a single train of massive galena boulders that was followed to a snow-covered area (Eccles, 1981). The snow-covered source of this float was never followed up. No additional work was recorded by the Seagull joint venture and the Lorne claims were allowed to lapse.

In 1986, H and P Holdings staked the HV and VER claims to expand around their Jeff and Hi Grade claims. A limited blasting program was conducted on the Jeff claims, which exposed a three-metre wide galena vein, the PN Vein, from underneath a galena-bearing float train. Assays of broken galena and frozen gouge taken from this vein returned 3723.35 g/t silver (Fowler and Ramaekers, 1988). Later that fall, H and P Holdings optioned their claims to Yukon Minerals Corp., which also staked an additional 53 claims in the surrounding area.

In 1987, Yukon Minerals staked additional claims (to a total of 403 claims) to covered most of the Groundhog Silver Camp. The project was known as the Ketza Project. Yukon Minerals subsequently entered into an earn-in agreement with Perrex Resources Inc. During the summer, a surface exploration program comprised of prospecting, geological mapping, soil and silt geochemical sampling, excavator trenching and a limited VLF geophysical survey was completed. This program evaluated known silver-lead-zinc occurrences and resulted in the discovery of numerous occurrences and showings, but no additional records of this work are available (Fowler and Ramaekers, 1988).

Also in 1987, McCrory Holdings Ltd. staked the Whistler 1-8 claims, which adjoined Yukon Minerals' claim package, to cover several silver-lead-zinc soil geochemical anomalies and an arsenopyrite-pyrite-quartz vein near Anomaly Creek identified by Noranda in 1977. A limited program of bulldozer trenching and prospecting was conducted in conjunction with geological mapping by a geologist from Yukon Minerals. Grab samples collected from one of the trenches returned up to 0.72 g/t gold, 190 g/t silver and 2.59% lead (Davidson, 1988).

In 1988, McCrory Holdings optioned the Whistler claims to Yukon Minerals, which subsequently performed a property wide program of geological mapping, geochemical sampling, excavator trenching and diamond drilling to follow up targets identified across the Groundhog Silver Camp. A total of 53 galena-bearing showings and 22 quartz-freibergite showings were documented during this program. Diamond drilling in the southern half of the Groundhog Silver Camp was focused on the PN Vein, which was tested by six diamond drill holes (totalling 204 m). This drilling yielded a highlight assay of 512.6 g/t silver, 9.78 % lead, 9.55 % zinc and 0.341 g/t gold over 0.77 m and blocked out 3480 tons of probable and drill indicated ore grading 471 g/t silver, 9.90% lead and 5.25% zinc (Fowler, 1988). A 52.56-tonne bulk sample was taken from the PN Vein, which reportedly returned grades of 4106.7 g/t silver, 5.45% lead

and 3.45% zinc, but few details are available. An 18.81-tonne bulk sample was also collected at the nearby Jill Vein (also known as the Hi Grade Occurrence) and shipped to a smelter in Trail, BC. This bulk sample graded 4354 g/t silver, 75% lead, 0.5% zinc and 1.2 % copper (Berdahl, 1995). No additional work was carried out by previously mentioned operators after 1988 and all claims in the area were allowed to expire.

In 1994, G. Macdonald staked the Bro claims to cover the area previously staked by Noranda and optioned them to Lucky Seven Resources, which later changed its name to Brett Resources Inc. The company conducted a program of geological mapping, soil geochemical sampling and trenching at the H-Zone in 1995. Results from this program confirmed historical surface and soil results from work completed by Noranda, and included a grab sample that returned 744 g/t silver, 26.13% lead, 1.3% zinc, 2.19% copper, 1607 ppm arsenic and over 2000 ppm antimony (Olfert, 1995)

Also in 1995, Whitehorse prospector R. Burdahl staked the Pete claims to cover the Jill, PN and Lucky veins, which were previously covered by the Jeff and Hi Grade claims. Composite sampling of remnant hand cobbed ore from the Jill Vein averaged 3755 g/t silver, 66.9% lead, 0.481% zinc and 1.25% copper (Berdahl, 1995). The Pete 1 claim, which covers old workings on the PN and Lucky veins, is still currently held by Berdahl.

Also in 1995, Whitehorse prospector B. Kreft staked the Rob 1, 2 and 3 claims to cover isolated showings around the Pete claims. At the Rob 1 claim, located on the north side of Pass Peak, hand trenching exposed at least four narrow but strongly mineralized veins. The best of these veins, the Rob #1 Vein, returned up to 18,120 g/t silver and 81.8% lead (Kreft, 1996a). At the Rob 2 claim, located roughly 100 m south of the Pete claims, two mineralized veins were exposed by hand trenching. The best of these veins, the Rob #14 Vein, returned up to 13,028 g/t silver and 73.7% lead while a chip sample of sheared and brecciated dolomite near this vein returned 2.375 g/t gold over 2.2 m (Kreft, 1996b). At the Rob 3 claim, located approximately 1700 m northwest of the Pete claims, a strongly mineralized shear zone (up to two metres wide) was exposed by hand trenching. A chip sample taken along this shear zone returned 13,038 g/t silver and 23.4% lead over 1.5 m (Kreft, 1996c)

In 1997, Brett Resources optioned the Bro claims to Aros Resources Inc., which completed a program of soil geochemical sampling, geological mapping and prospecting. This work defined two lead-zinc soil anomalies located uphill of the H-Zone (Tulk and Tucker, 1998). In 1998, geological traverses were made to confirm the nature of mineralization at this zone. No additional work was completed by Aros or Brett Resources and the claims were allowed to expire.

In 2007, the southern part of the Groundhog Silver Camp was staked by Strategic Metals Ltd., which sold the property to Rockhaven Resources Ltd. later that year.

In 2008, Rockhaven contracted Geotech Inc. to complete a helicopter-borne versatile-time domain electromagnetic (VTEM) and magnetic survey over the property, and subsequently

completed a program of geological mapping, prospecting and silt geochemical sampling. A total of 58 rock and 47 silt samples were collected. Rock samples were mostly character specimens taken from historical showings and bulldozer trenches dug by Yukon Mineral Inc., which returned peak values of 11,663.5 g/t silver, 64.7% lead, 15.5% zinc and 3.7% copper (Turner, 2009). Following this work, the Sea 105 to 108 claims were staked to cover the inferred strike extension of a newly discovered showing.

In 2009, Rockhaven carried out a month-long program of prospecting, hand trenching and geochemical sampling. Prospecting and hand trenching identified several areas of significant mineralization. Highlights from this work include a continuous chip sample that averaged 47.8 g/t silver, 9.09% lead and 15.70% zinc over 8.93 m and a float sample that returned 2230 g/t silver and 70.01% lead at the Cirque Showing; a grab sample that graded 2440 g/t silver, 58.57% lead and 2.99 % zinc from the Rob #1 Showing; and a float sample that returned 1.805 g/t gold, 486 g/t Ag, 14.9% Pb and 0.75% Zn from the Aztec Showing. Soil geochemical sampling outlined several areas with strongly anomalous in silver, lead and zinc values, and a 2000 by 1400 m gold-arsenic anomaly near a mapped structure at the Aztek showing (Kammerer and Turner, 2010).

In 2011, Rockhaven stake the CYRX and CYR claims on the east side of the Sea claims.

In 2015, Rockhaven transferred the Groundhog project claims to Strategic Metals as part of a multi-project transaction agreement.

In 2018, Strategic Metals completed a prospecting, hand pitting and geochemical sampling program. During this program, a total of 663 soil samples were taken from two grids: an 800 by 800 m grid over the Aztek showing, and a 1500 by 1500 m grid over the JW showing. At the Aztek showing, results defined an 800 by 350 m oval-shaped gold and arsenic anomaly, with values ranging up to 1650 ppb Au and 2240 ppm arsenic. This area also returned anomalous values for silver, lead, and zinc. At the JW showing, strongly anomalous gold-in-soil values (up to 560 ppb) form a cluster in the centre of the grid. Rock samples collected during the 2018 program included noteworthy results from a limestone breccia boulder found along the western edge of the property, which returned 577 g/t Ag, 19.75% Pb and 10.6% Zn (Israel, 2019).

In 2019, Strategic Metals conducted a program of prospecting and soil geochemical sampling. A total of 11 rock and 350 soil samples were collected from the property. The best rock sample results were from the JW Showing, which returned up to 5.91 g/t gold from oxidized and limonitic breccia float. Soil sampling defined three separate areas with anomalous arsenic-gold or silver-lead-zinc values (Burke, 2019).

In 2020, Strategic Metals completed geological mapping, prospecting and soil geochemical sampling. A total of 34 rock samples were collected from the southernmost part of the property along the Sheep and Lucky trends. Elevated gold, silver, lead and zinc values were found in samples taken from known showings. Assay highlights include a float sample with 20.5% lead

and 9.97% zinc take near the BP Showing, and a composite sample taken from a hand trench at the Rob #1 Showing containing 5310 ppm silver and 1.95% copper. A total of 385 gridded soil samples were collected in the west central part of the property. The results further delineated a gold-arsenic-lead anomaly near the Rob 2 showing and uncovered anomalous gold, arsenic, silver, lead and zinc near the Scree showing (Willms, 2021).

In 2021, Strategic Metals sold the Groundhog property to Honey Badger.

GEOMORPHOLOGY

The Groundhog property is located in the St. Cyr Range of the Pelly Mountains. All streams draining the property flow into Groundhog, Upper Sheep and Seagull creeks, which ultimately flow into the Bering Sea via the Pelly and Yukon rivers.

The claims overlie rugged topography with peaks rising to 2120 m above sea level (asl) and valley floors from 1200 m asl. Lower elevations are vegetated with spruce forests, thick buckbrush and slide alder surrounded by moss. Higher elevations exhibit talus slopes with intermittent grass and alpine heather. Outcrop is mostly restricted to ridges and very steep slopes. Treeline is at about 1575 m.

REGIONAL GEOLOGY

The Groundhog property is located 30 km southwest of the Tintina fault in the Ketza-Seagull District (Pelly Mountains) of the Cassiar terrane (Figure 4). The Cassiar terrane is a displaced parautochthonous fragment of the Laurentian margin offset by the Tintina fault, a northwest trending transcurrent fault with approximately 425 km of dextral strike-slip motion (Gabrielse et al., 2006; Mortensen, 2004). In southeastern Yukon, this fault juxtaposes metamorphosed island arc assemblages of the Yukon-Tanana terrane (YTT) to the northeast against the Cassiar terrane to the southwest (Figure 4).

Tempelman-Kluit (1977; 2012) carried out the first comprehensive bedrock mapping in the Pelly Mountains within the NTS 105F (Quiet Lake) and 105G (Finlayson Lake) map sheet areas. Rocks from this area were divided into four main stratigraphic groups, the Ketza, Kechika, Askin and Seagull groups, which are each comprised of several informal formations (Figure 5). Some of these rocks have been re-compiled into the updated Yukon bedrock geology map to better fit with the larger regional-scale geology of the Cassiar terrane (Gabrielse, 1963; Yukon Geological Survey, 2022).

The upper Neoproterozoic to Lower Cambrian Ingenika Group and Rosella formation are the oldest rocks in the region (Figure 6). Templeman-Kluit (1977; 2012) placed these rocks within what he called the Ketza Group, with the Ingenika Group and the Rosella formation represented by the Pass Peak and McConnell River formations respectively (Table I). The rocks of the Ingenika Group and the Rosella formation outcrop in the western portion of the Groundhog region, in the hanging wall of a northwest-striking thrust fault and within the

HONEY BADGER SILVER INC.

FIGURE 4

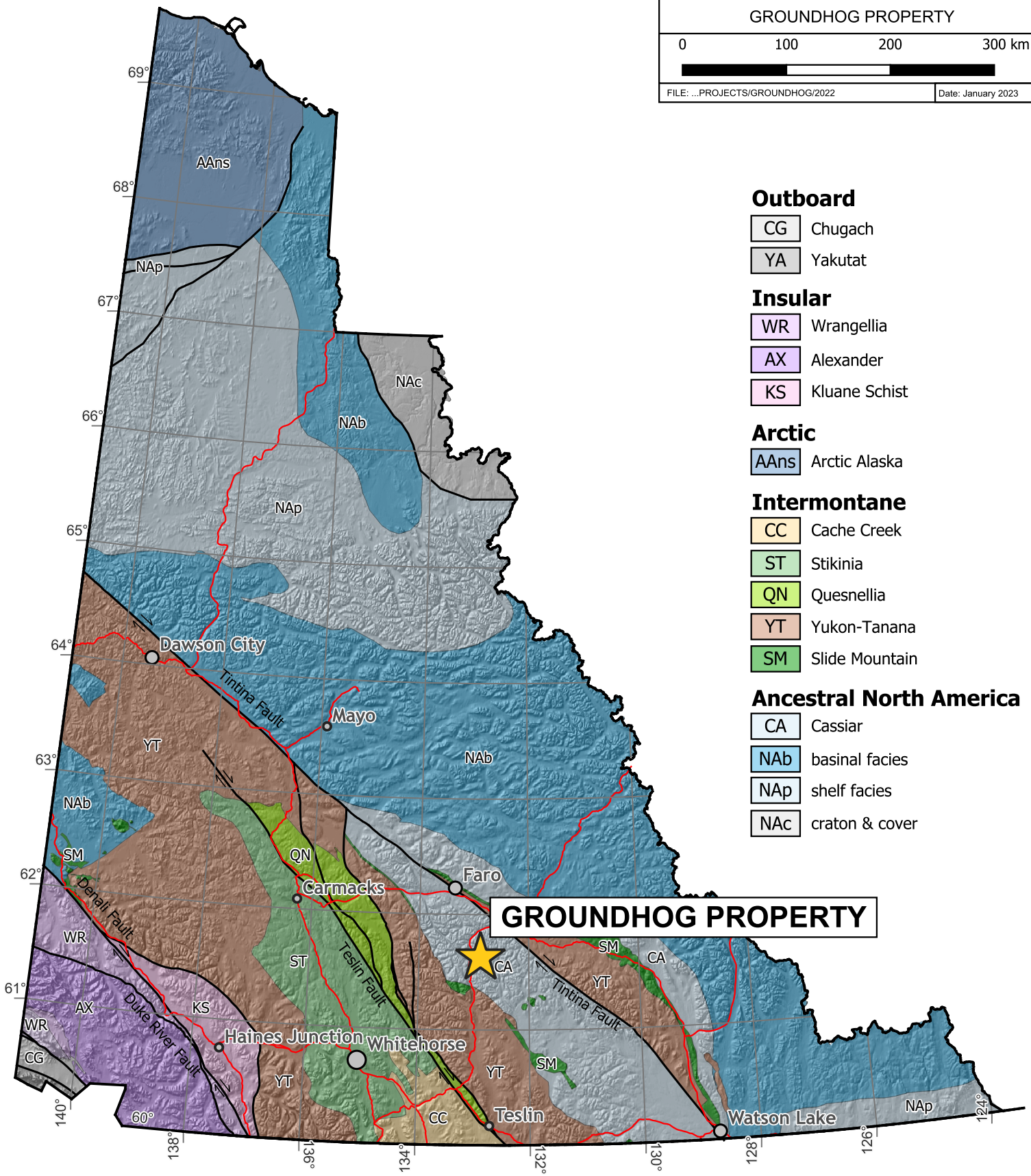
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING

GROUNDHOG PROPERTY

0 100 200 300 km

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: January 2023



Outboard

CG	Chugach
YA	Yakutat

Insular

WR	Wrangellia
AX	Alexander
KS	Kluane Schist

Arctic

AAns	Arctic Alaska

Intermontane

CC	Cache Creek
ST	Stikinia
QN	Quesnellia
YT	Yukon-Tanana
SM	Slide Mountain

Ancestral North America

CA	Cassiar
NAb	basinal facies
NAp	shelf facies
NAc	craton & cover

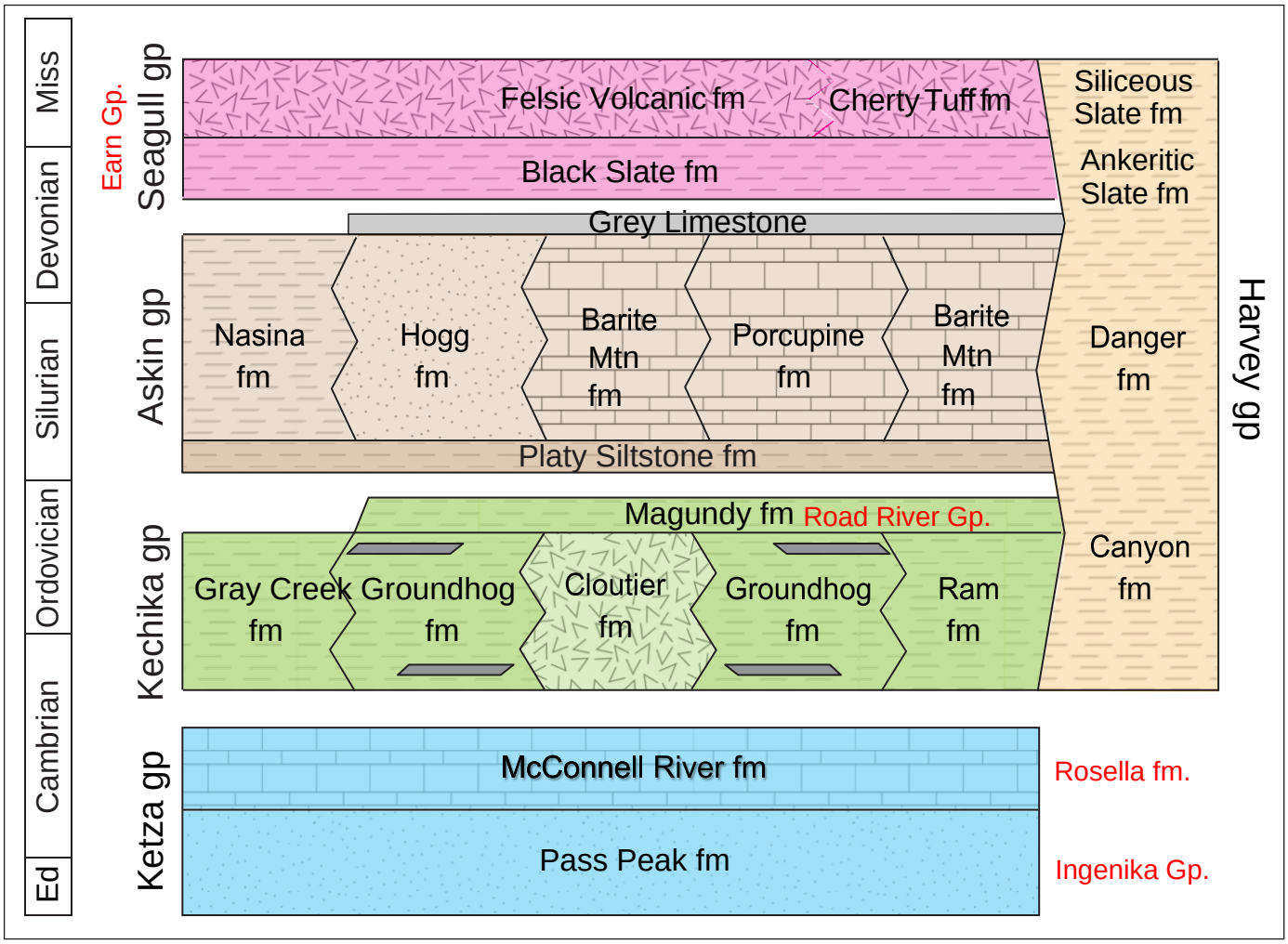


FIGURE 5 - REGIONAL STRATIGRAPHY

Paleozoic stratigraphy of the Pelly Mountains compiled by Tempelman-Kluit (1977, 2012), modified from Campbell and Beranek (2017). Red text is the reinterpreted stratigraphic assignment from Gordey and Makepeace (2001) and the Yukon Geological Survey (2019).

605000 610000 615000 620000 625000

6835000 6830000 6825000

CARIBOU
DOUBLE P
VERSLUCE
No.1
PIKA TREND
SHEEP
SHEEP TREND
LUCKY TREND

True North
Grid North 0°0'1"
Magnetic North 19°21'E
Annual change 0.20' W

Bedrock geology
- mKgC: CASSIAR SUITE: Bt ± Hbl ± titanite-bearing monzogranite to granodiorite
- DyP: PELLY MOUNTAINS SUITE: massive, medium to fine-grained equigranular syenite
- DMEC3: EARN - CASSIAR: rhyolite-trachyte to andesite flows, breccia and tuff
- DMEC1: EARN - CASSIAR: black siliceous slate, quartz-chert greywacke, grit and conglomerate
- SDA2: ASKIN: dolostone, silty and sandy dolostone, limestone
- ODRC1: ROAD RIVER - CASSIAR: recessive, black, locally calcareous, fissile, graptolitic shale; quartz arenite, basalt
- COK2: KECHIKA: dark green and maroon amygdaloidal basalt flows and volcaniclastic rocks
- COK1: KECHIKA: thin-bedded, lustrous, calcareous, grey slate, phyllite, limestone
- lCR: ROSELLA: resistant, thick-bedded to massive, limestone and argillaceous limestone
- PCI4: INGENIKA?: thin bedded slate, siltstone, quartzite, minor limestone
- PCI1: SWANNELL/TSAYDIZ: calcareous sandstone, shale, quartz-eye grit, quartzite

- Groundhog_boundary
- SHEEP Mineralized trend
- Thrust fault
- Normal fault

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FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY

GROUNDHOG PROPERTY

0 1 2 km

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022 Date: January 2023

exhumed areas of the Seagull and Ketza uplifts (Figure 6). The Ingenika Group consists of up to 200-700 m of green to tan coloured shale, siltstone and quartzite (Templeman-Kluit, 2012; Campbell and Beranek, 2017). These rocks are overlain by up to 800 m of calcareous mudstone and siltstone, archeocyathid bearing carbonate mounds, and black pyritic slate assigned to the Rosella formation. The upper contact between the Rosella formation and the overlying Kechika Group is not well-exposed; however, a mid-Cambrian fossil gap suggests an unconformity (Tempelman-Kluit, 2012).

The Kechika Group consists of Upper Cambrian to Ordovician siliciclastic and volcanic rocks found in the central part of the Groundhog area (Figure 6; Table I). Kechika Group rocks are either structurally overlain by or unconformably overly rocks of the Ingenika Group and Rosella formations in the western and central parts of the region. In other areas, the Kechika Group is conformably to disconformably overlain by the younger Askin Group or thrust over Devonian to Mississippian Earn Group. The Kechika Group consists of northwest striking belts of laterally interfingering strata characterized by calcareous slate and thin-bedded platy limestone, tuffaceous phyllite, greenstone and andesitic tuff, basalt flows and volcaniclastics rocks. These rocks appear to be capped by a thin discontinuous black slate that has been correlated with the Road River Group (Yukon Geological Survey, 2022).

Conformably to disconformably overlying the Kechika Group is Silurian to Devonian shallow water, marine strata of the Askin Group. Rocks of the Askin Group form much of the larger mountains within the Groundhog region due to the resistive nature of the stratigraphy. These rocks are unconformably overlain by Earn Group rocks in the central part of the Groundhog region and are faulted against rocks of the Ingenika Group, Rosella formation and Earn Group to the west (Figure 6). The Askin Group consists of a basal, platy, dolomitic siltstone 100 to 500 m thick, overlain by well-bedded, shallow water carbonate rocks and massive dolostone with varying amounts of quartz-sand and silt. Mafic to intermediate volcanic rocks are found locally within the lower platy siltstones. Rapid lateral variations in stratigraphy occur within the carbonate rocks and locally dolomitic, quartz, sandstone dominates. A blueish-grey coloured, thin-bedded limestone is found locally at the top of the Askin Group and overlies most stratigraphy within the group.

Siliciclastic and volcanic rocks of the Devonian to Mississippian Earn Group outcrop in the central to western parts of the Groundhog region. These rocks are conformable to discordantly overlying the Askin Group and are structurally overlain by rocks of the Kechika Group (Figure 6; Table I). Tempelman-Kluit (1977; 2012) included these rocks in the Seagull Group, but they have since been correlated with Earn Group strata (Yukon Geological Survey, 2022). Earn Group rocks in the Groundhog region consists of slate, greywacke and felsic volcanic rocks. The lower part of the Earn Group in this region is dominated by thin-bedded, black, fissile slate. Thin beds of greywacke composed of chert, feldspar and quartz grains are interbedded with the slate and locally form beds of granule to pebble conglomerate. Thin-bedded barite is found in the upper parts of the slate and can reach thicknesses of 200 m near the top of the unit. A grey to greenish cherty tuff unit overlies the black slate and consists of rusty orange weathered cap. Thin argillaceous layers, between one and ten centimetres thick, separate beds of the cherty

tuff. The tuff is roughly 100 m thick and is overlain by a laterally and vertically heterogeneous unit of volcanic and volcaniclastic rocks. The volcanic and associated volcaniclastic rocks are up to 500 m thick and include a variety of light coloured tuff, volcanic breccias and flows, dykes sills and subvolcanic plugs of felsic to intermediate composition. Individual beds are difficult to follow laterally for any distance and also have rapid vertical facies changes.

Late Devonian plutonic rocks of the Pelly Mountains suite intrude into the Earn and Askin groups in the eastern part of the Groundhog region. These rocks are, at least in part, time-equivalent with the Earn Group volcanic rocks and are genetically related. Rocks of the Pelly Mountain suite consist of massive, medium to fine-grained, sub-volcanic syenite to trachyte. A U-Pb zircon age from this suite suggests an age of ca. 362 Ma (Mortensen and Gordey, unpublished data).

Early Cretaceous monzo-granite to granodiorite of the Cassiar suite outcrop in the extreme western part of the Groundhog area (Figure 6; Table I). The suite ranges in age from 117-104 Ma and includes large, regional batholiths such as the Nisutlin, Quiet Lake and Big Salmon batholiths. Smaller buried intrusions of the Cassiar suite are thought to underlay both the Ketza and Seagull uplifts and likely play a role in the mineralization found in both areas (Abbott, 1986).

Table I - Regional Lithological Units (*After YGS,* 2022)

Name	Age	Unit	Description
Cassiar Suite	Mid-Cretaceous	mKqC	Light grey weathering, homogenous, porphyritic medium-grained biotite quartz monzonite.
Earn Group (Seagull Gp)	Upper Devonian to Lower Mississippian	DMEC1	Dark grey, recessive weathering, thin bedded, black siliceous slate with chert pebble conglomerate and rare lenses of intermediate to felsic volcaniclastic rocks.
		DMEC2	Rusty orange weathering, resistant, apple-green and dark grey, thin bedded chert and cherty tuff; local nodular and bedded barite.
		DMEC3	Heterogeneous, rusty, black, white, and orange- weathering rhyolite-trachyte to andesite flows, breccias and tuffs.
Askin Group	Middle Silurian to Middle Devonian	SDA2	Medium grey to buff weathering, medium-to-thick bedded dolomite, silty and sandy dolomite, limestone, and medium-to-thick bedded orthoquartzite.

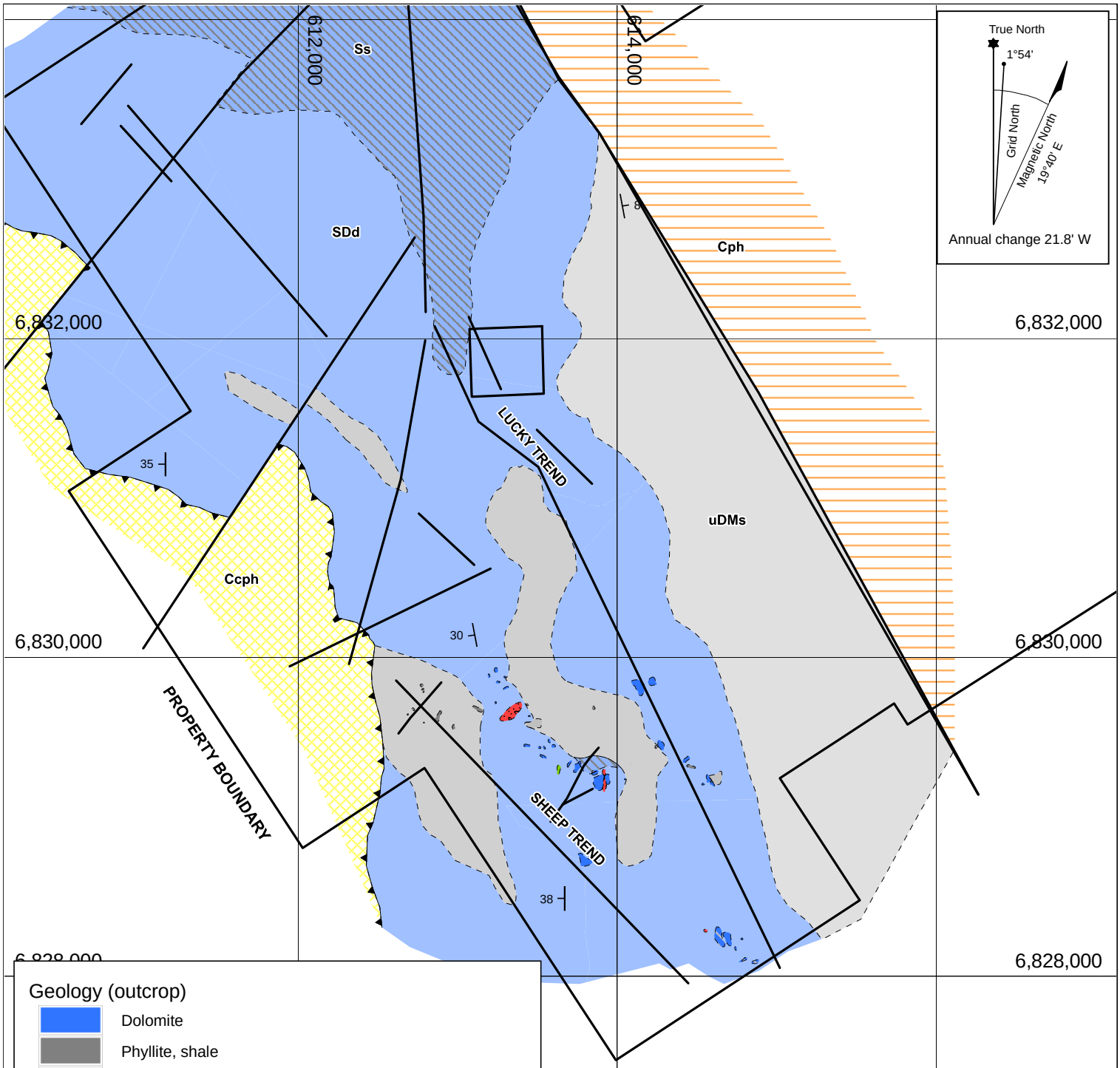
Kechika Group	Upper Cambrian to Lower Ordovician	COK1, COK2	Basinal, fine grained, calcareous pelitic strata containing thin bedded, lustrous, calcareous grey slate, phyllite, limestone, minor grey dolomite and dolomitic limestone; quartz-carbonate veins; minor sills and flows of basalt (COK1); massive dark green and maroon amygdaloidal basalt flows and volcaniclastic rocks (COK2)
Rosella Group (Ketza Gp – McConnell River Fm.)	Lower Cambrian	ICR	Resistant, thick bedded to massive, limestone and argillaceous limestone with local archaeocyathid buildups, trilobite fragments, and oolites; pisolitic massive dolomite and limestone; marble, calc-silicate, calcareous phyllite and minor schist.
Ingenica Group (Ketza Gp – Pass Peak Fm.)	Upper Proterozoic to Lower Cambrian	PCI4	Buff weathering, resistant muscovite-biotite granodiorite gneiss and augen gneiss.

Structure across the district has a pronounced northwesterly trending fabric that is dominated by northeast-verging thrusts and parallel to sub-parallel horsts and grabens related to normal faults. Thrust faults are associated with wide-spread mid-Cretaceous compression that affected the entire western margin of North America (Tempelman-Kluit, 2012; Nelson et al., 2013). The horst and graben structures have been attributed to uplift caused by doming above a large, buried intrusion (Abbott, 1986). Two of these dome-like structures have been identified, the Ketza uplift, centred around the Ketza mine, and the Seagull uplift which is centred on the Groundhog property (Figure 6). Abbott (1986) combined the two uplifted areas to encompass the Ketza-Seagull Arch, a regionally exhumed area containing hornfels and schists in the two core areas. It is suspected that there is a direct relationship between the two uplifted regions and the epigenetic vein hosted deposits and occurrences in this region.

PROPERTY GEOLOGY

In 1988, geological mapping by Yukon Minerals identified six units on the property, which are correlated to the regional lithologies as shown in Table II. Mapping by Rockhaven in 2008 and 2009 (Turner, 2009; Kammerer and Turner, 2010) was done at 1:10,000 scale, using the same units. In 2020, Strategic Metals completed 1:5000 scale mapping in the southern part of the property. In 2022, Honey Badger completed 1:5000 scale mapping around showings in the western part of the property. The property geology shown on Figure 7 is compiled from work completed during the 2008, 2009, 2020 and 2022 work programs.

The property is underlain by relatively thick successions (up to 400 m) of calcareous sedimentary rocks with lesser clastic sedimentary rocks, which range in age from Lower Cambrian to Late Devonian-Mississippian. Bedding orientations mostly strike north-south, with



Geology (outcrop)

- Dolomite
- Phyllite, shale
- Dolomitic siltstone

Geology (float)

- Dolomite
- Phyllite, shale
- Vein breccia
- Mafic volcanics

- Normal fault
- Thrust fault
- Interpreted contact
- 15 Bedding measurement

Geology (interpreted)

- Dolomite
- Phyllite, shale
- Calcareous phyllite (Kechika gp)
- Calcareous phyllite (Rosella gp)

STRATEGIC METALS LTD.

FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY

GROUNDHOG PROPERTY

0 2,000

meters

UTM Zone 8, NAD83, NTS 105 F/10

FILE: 2020/GROUNDHOG	DATE: MARCH, 2020

flat to moderate dips of 5□ to 35□W in the western part of the property and 2□ to 20□E in the east. These measurements indicate a broad anticlinal fold, with smaller-amplitude folding locally, which have northerly trending axes.

Table II - Correlation of Regional and Property Lithological Units

Regional unit	Property subunit	Property Unit (Description)
mKqC	KTqfp	Dark green, fine grained biotite-bearing dykes (mafic volcanics)
DMEC1	uDMs	Black, recessive weathering shale (may be siliceous)
SDA2	SDd	Buff-, grey-, and red-weathering dolomite
	Ss	Sandy dolomite to dolomitic siltstone
COK1	Ccph	Grey buff, brown weathering thinly laminated calcareous phyllite.
ICR	Cph	Grey calcareous phyllite.

There are few mapped exposures of intrusive bedrock on the property, including a 25 cm wide intermediate porphyritic dyke and a 3 m wide fine-grained mafic dyke, both striking approximately north-south. Several areas host numerous boulders of dark green, intermediate to mafic intrusive to volcanic float (KTqfp). Yukon Minerals mapped two dykes of this unit in outcrops about 400 m north of the property. These dykes range from 2 to 10 m in width and were traced over 600 m along strike.

The Pass Peak Thrust Fault is the largest fault on the property, which corresponds to the southern flank of the complexly faulted arch named the Seagull Uplift. The Lower Seagull Thrust, 5 km to the northeast of the property (Figure 6), represents the northern flank of this arch. Both of these thrust faults strike northerly and dip shallowly to the west.

Several normal faults and shear zones have also been mapped on the property. These structures strike northwesterly and northeasterly and dip steeply. They are interpreted to be horst and graben structures within the Seagull Uplift (Abbott, 1986). These high angle faults offset the thrust fault.

MINERALIZATION AND ROCK GEOCHEMISTRY

Mineralization in the Ketza-Seagull Arch is thought to be related to both syngenetic and epigenetic systems (Abbott, 1986). Volcanogenic massive sulphide mineralization is believed to be associated with Earn Group volcanic rocks; however, the main mineral occurrences are epigenetic vein, manto and skarn occurrences that are generally clustered within and around the Seagull and Ketza uplifts. Veins of galena, sphalerite, quartz, siderite, pyrite, pyrrhotite, arsenopyrite, chalcopyrite and tetrahedrite are found along well-formed faults with very minor offset (Abbott, 1986). These faults appear to have been active during mineralization and are considered to have provided the conduits for mineralizing fluids. Mantos are generally found

near faults and form tube-like lenses along the contact between Lower Cambrian limestone and overlying shale (Abbott, 1986). At the Ketza and Seagull uplifts, mineralization appears to be zoned with gold-rich veins and mantos found within the core (especially in the Ketza uplift), while galena- and sphalerite-rich veins and mantos are found around the flanks of the uplift.

The Groundhog property is found within the Seagull Uplift, where mineralization appears to be associated with seven main structural trends. Three of these structures – the Sheep, Lucky and Pika trends – cross the property (Figure 3). These mineralized trends are oriented northwesterly and can be individually traced for up to seven kilometres along strike. They appear to lie along the flanks of grabens formed during uplift (Ramaekers, 1988) or along fluid conduits provided by thrust faults. Although the source of the mineralizing fluids is unknown, it has been postulated that the uplift and structural extension resulted from doming above an unexposed mid-Cretaceous intrusion, which may also have been the main heat source driving the fluid transfer (Abbott, 1986).

The majority of the showings on the property are fault-bounded quartz-carbonate veins and breccias hosted by the Askin Group carbonate sequence. Mineralization within the veins and breccias consists of disseminated to semi-massive, coarse-grained galena, sphalerite, tetrahedrite, freibergite and pyrite. Malachite staining is common on carbonate minerals, with the copper remobilized from the weathering of tetrahedrite. Hydrozincite residue is also locally observed. Most of the showings occur near the top of the Askin Group, just below the contact with overlying Earn Group shales and fine grained clastics. This relatively incompetent and non-reactive unit likely acts as a chemical barrier that localized mineral deposition in the underlying carbonate rocks (Fowler, 1988).

Three main types of mineralization have been discovered on the Groundhog property as generally described, below.

Vein and breccia zones on the property are associated with northwest-trending, steeply dipping structures, which mostly occur along the Lucky and Sheep trends, and east- to northeast-trending shear zones that cut obliquely across the primary structures. Movement along these structure features has helped produce dilatant zones that have enabled open space filling by veins.

Replacement mineralization is locally developed where structures hosting vein and breccia zones cut carbonate wallrock. Little effort was made by previous operators to assess potential for this type of mineralization. However, prospecting appears to have discovered replacement style zones and mantos (JW and Aztek Showings).

Stratiform mineralization occurs as finely banded galena, sphalerite and chalcopyrite in Cambrian-aged phyllites and tuffs in the western part of the property within the upper plate of the Pass Peak Thrust Fault. Two showings (Strat and Geo) exhibit this style of mineralization. They are located on opposite sides of a valley about 1500 m apart.

In 2022, a total of 49 rock samples, including 11 chips samples, were collected in the areas of known showings in the western part of the property. See Figure 8 for rock sample locations. A description of sample handling and analytical procedures in found in Appendix III. A complete list of rock sample descriptions and assay certificates of analysis are found in Appendices IV and V, respectively. Thematic results for gold, silver, lead and zinc in rocks are illustrated in Figures 9-12, respectively. Showings that have seen recent exploration focus are described in the following paragraphs.

Aztek Showing

The Aztek Showing was identified during the 2009 exploration program. It is loosely defined by widely spaced soil sampling, which yielded elevated gold and arsenic values over a 2000 by 1400 m area.

Analysis of VTEM geophysical data shows a magnetic low that approximately coincides with the geochemically anomalous area. Rock samples of silicified dolomite collected from float in road cuts and historical bulldozer trenches in 2009 returned up to 1.81 g/t gold, 486 g/t silver and 14.9% lead.

In 2020, a single rock sample was collected from the area of the Aztek Showing. The float sample, which comprised brecciated dolomite hosting unidentified sulphides and malachite staining, returned 2210 g/t silver, 0.93 % lead and 0.49 % ppm copper.

In 2022, a north-south trending fault zone was found in outcrop in a historic trench on a ridge crest south of the Aztec Showing. Boulders of strongly quartz-veined phyllitic shale were found 180 m north along strike from this outcrop. Rock samples from the fault and vein material do not show metal enrichment; however, the fault itself may be a possible conduit for mineralizing fluids at the Aztec Showing.

Sheep Showing

The Sheep Showing is exposed in an old excavator trench approximately 30 m northeast of the White Creek headwaters. The showing is found in outcrop on the southwest facing slope of a small, grassy hill. It consists of a dolomite-hosted, approximately three metre wide, southeast-trending (140-155°) vein zone which comprises two veins up to approximately one-metre-wide. The quartz veins host isolated pods of coarse-grained galena±sphalerite±pyrite±minor tetrahedrite. The zone is exposed approximately 25 m along strike. The headwaters of White Creek, approximately 50 m west of the Sheep showing, are marked by very notable white, oozy iron sulphate precipitates.

Grab samples taken from the area of the Sheep Showing in 2008 returned up to 764 g/t Ag, 34.2% Pb and 6.5% Zn.

612000

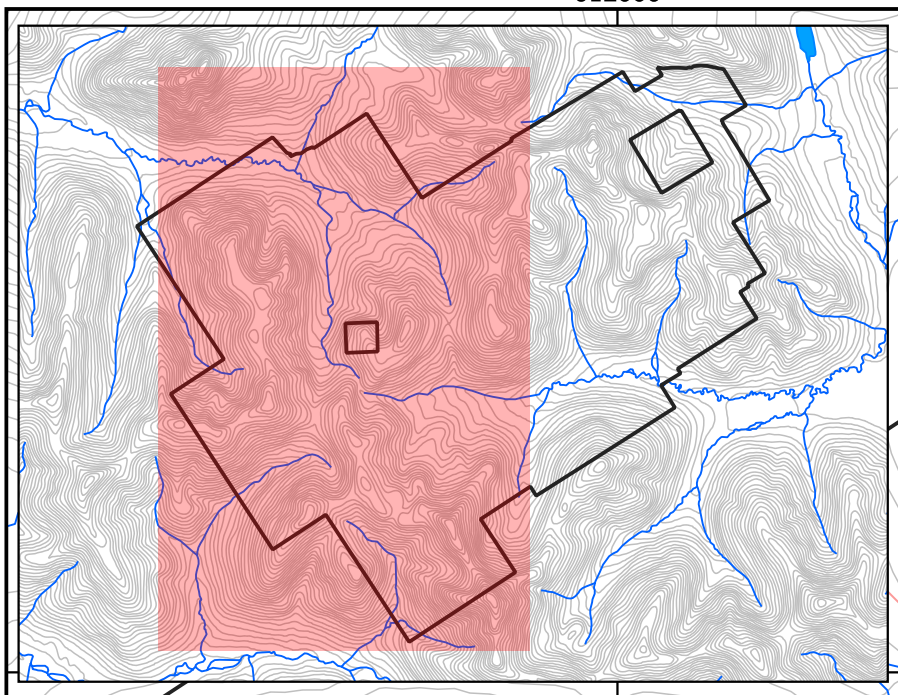
614000

6834000

6832000

6830000

6828000



True North

Grid North
0°51'

Magnetic North
19° 23' E

Annual change 0.20' W

E814408

E814409

E814407

E814406

D007237

D007238

E814452

E814457

E814454

E814451

D007250

E814455

E814453

E813026

E813027

E813029

E813028

E814456

D007249

D007240

D007239

D007242

E813039

D007241

E813037

D007248

D007243

E814405

D007244

E814404

E814401

E814403

E813036

E813038

D007247

E814402

D007245

E814410

E814412

E813035

E813033

E813034

E814411

E813032

E814413

E813031

D007246

E813030

E814414

Groundhog_boundary

HONEY BADGER SILVER INC.

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

2022 ROCK SAMPLE LOCATIONS

GROUNDHOG PROPERTY

0 50 100 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022

Date: January 2023

612000

614000

6834000

6832000

6830000

6828000

True North

Grid North 0°51'

Magnetic North 19°23' E

Annual change 0.20' W

CIRQUE

BILL

PN

LUCKY

CRACK

JILL

STRAT

OTTER

RUZSY

BP

HORN

ROB 2

IRISH

GALENA

SHEEP

AZTEK

SCREE

GEO

SP

JTG

M

HO

JW

MUKLUK

FOGGY

ROB 1

Gold-in-rock (ppb)

- 0 - 20
- 20 - 50
- 50 - 100
- 100 - 200
- 200 - 500
- 500 - 5910
- Showings
- Mineralized zones
- Roads_Surveyed

HONEY BADGER SILVER INC.

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD ROCK GEOCHEMISTRY

GROUNDHOG PROPERTY

0 50 100 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022

Date: January 2023

612000

614000

6834000

6832000

6830000

6828000

True North

Grid North
0°51'

Magnetic North
19° 23' E

Annual change 0.20' W

CIRQUE

BILL

PN

LUCKY

CRACK

JILL

STRAT

OTTER

RUZSY

BP

HORN

ROB 2

IRISH

GALENA

SHEEP

AZTEK

GEO

SCREE

SP

JTG

M

HO

JW

MUKLUK

FOGGY

ROB 1

Silver-in-rock (ppm)

- 0 - 10
- 10 - 20
- 20 - 50
- 50 - 100
- 100 - 200
- 200 - 11663.5
- Showings
- Mineralized zones
- Roads_Surveyed

HONEY BADGER SILVER INC.

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER ROCK GEOCHEMISTRY

GROUNDHOG PROPERTY

0 50 100 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: January 2023

612000

614000

6834000

6832000

6830000

6828000

True North

Grid North
0°51'

Magnetic North
19° 23' E

Annual change 0.20' W

CIRQUE

BILL

PN

LUCKY

CRACK

JILL

STRAT

OTTER

RUZSY

BP

HORN

ROB 2

IRISH

GALENA

SHEEP

AZTEK

GEO

SCREE

SP

JTG

M

HO

JW

MUKLUK

FOGGY

ROB 1

Lead-in-rock (ppm)

- 0 - 2000
- 2000 - 5000
- 5000 - 10000
- 10000 - 20000
- 20000 - 50000
- 50000 - 772100
- Showings
- Mineralized zones
- Roads_Surveyed

HONEY BADGER SILVER INC.

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LEAD ROCK GEOCHEMISTRY

GROUNDHOG PROPERTY

0 50 100 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022

Date: January 2023

612000

614000

6834000

6832000

6830000

6828000

True North

Grid North
0°51'

Magnetic North
19° 23' E

Annual change 0.20' W

CIRQUE

BILL

PN

LUCKY

CRACK

JILL

STRAT

OTTER

RUZSY

BP

HORN

ROB 2

IRISH

GALENA

SHEEP

AZTEK

SCREE

GEO

SP

JTG

M

HO

JW

MUKLUK

FOGGY

ROB 1

Zinc-in-rock (ppm)

- 0 - 2000
- 2000 - 5000
- 5000 - 10000
- 10000 - 20000
- 20000 - 50000
- 50000 - 155000
- Showings
- Mineralized zones
- Roads_Surveyed

HONEY BADGER SILVER INC.

FIGURE 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC ROCK GEOCHEMISTRY

GROUNDHOG PROPERTY

0 50 100 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022

Date: January 2023

A 2022 grab sample from one of the veins within the vein zone returned 249 g/t silver, 8.0% lead, 0.23% zinc. The vein zone lies 10 m from a one metre wide parallel fault gouge zone that hosts seams of semi-massive galena, quartz and sphalerite, and minor pyrite±tetrahedrite along with pervasive malachite and hydrozincite staining. The fault appears to juxtapose black phyllitic shale to the northeast against quartz-veined, buff weathering dolomite to the south, but the exposure is insufficient to fully understand the host lithology. In 2022, a grab sample of fault rock from this zone containing semi-massive sphalerite returned 23.6% zinc, while a 1.3 m chip sample across a 70 cm wide exposure of the fault zone and surrounding 60 cm of host rock returned 0.27% lead and 4.8% zinc.

JW Showing

The JW Showing, discovered in 2008, is a mineralized shear zone hosted in Askin Group dolomite. The shear is exposed for a length of 55 m. The main showing is exposed within a narrow, north trending ridge between two streams. It is a steeply-dipping, approximately east-west trending zone of strongly dolomitized and brecciated rock and strongly oxidized horizons of fine-grained black shale. The zone is sub-parallel to dolostone bedding in the area, which strikes approximately west and dips steeply. In 2022, a float sample of dolomite with pods and disseminations of sphalerite taken from the base of the main ridge exposure yielded 7.6% zinc.

An area of silicification in the southern part of the exposure is mineralized with pods and disseminations of honey sphalerite and minor galena, which exhibit open-space replacement textures. In 2009, two hand trenches were dug across the shear, seven metres apart. Chip samples from the northern trench (TR-GH-09-03) averaged 7.33% zinc over 6.9 m. The southern trench (TR-GH-09-04) exposed two bands of mineralization, the better of which returned 4.57% zinc over 0.78 m.

Approximately 40 m east of the main showing is a small low-relief outcrop of strongly silicified and brecciated dark grey rock with zones of black, fine-grained shale that is locally strongly oxidized. The silicified zones contain disseminations and pods of honey brown sphalerite. A chip sample taken from this outcrop in 2022 yielded 6.9% zinc over one metre. Another, smaller outcrop of silicified dolomite was found approximately 50 m to the north. A chip sample taken in 2022 yielded 2% zinc over 80 cm.

Cirque Showing

The Cirque Showing is located along the flat top of a prominent northwest-trending ridge, which is underlain mainly by resistant weathering Askin Group dolomite. The showing is accessed by a cat road that extends southeast along the ridge top from the main access road at Jerry Pass (Figure 3). This showing is located toward the north end of the Sheep Trend.

Mineralization at the Cirque Showing consists of three parallel quartz-siderite veins and stockworks bearing galena, tetrahedrite, azurite, malachite and sphalerite. Limonite and manganese alteration are developed in the wallrock peripheral to the veins. The veins have

been exposed in trenches over a length of 400 m and are open along strike in both directions. The southern projection is covered by talus and felsenmeer and the northern projection is obscured by heavy vegetation and till in the Groundhog Creek valley. The structure can be traced for 300 m along a prominent northwest-trending linear feature which coincides with a float train of fractured to highly brecciated quartz±tetrahedrite boulders.

Where the linear feature intersects the lip of the cirque, there is an approximately 50 m wide exposure of sheeted, northwest-trending, steeply dipping quartz±carbonate veins in a sub-vertical shear zone. The veins are variably mineralized with pods of relatively minor tetrahedrite±galena, light yellow to green clay and locally strong malachite and azurite surface coatings. The wall rock is variably altered, with the strongest alteration being around mineralized veins and consisting of strong oxidation. Several veins are 10-40 cm wide, but the majority of the zone is characterized by moderately abundant centimetre-scale sheeted quartz±carbonate veinlets. The zone is only exposed for a few metres along strike. It is from this zone that the majority of samples have been collected from the Cirque Showing.

In 2008, two-character specimen samples were collected from exposed veins at the cirque. They returned 11,663.5 g/t silver, 64.7% lead and 3.7% copper. A chip sample across strongly limonitic wallrocks directly adjacent to that vein returned 388 g/t silver, 4.4% lead and 7.8% zinc over one metre.

During the 2009 field program, an eight-metre-wide exposure across one of the veins was mapped and sampled. Chip samples returned mostly low values with the best results from three samples that included the vein and the adjacent hanging wall. These samples yielded a weighted average of 120 g/t silver over 2.98 m. The sample from the vein returned 852 g/t silver, 18.95% lead and 9.64% zinc over 0.35 m.

In 2022, two 30 cm chip samples across two of the sheeted quartz veins hosting minor tetrahedrite exposed in the lip of the cirque returned 2410 g/t silver, 7.8% copper, 0.27% lead, and 0.75% zinc and 2430 g/t silver, 0.71% copper, 21.3% lead, and 6.3% zinc, respectively.

Scree Showing

The Scree Showing was discovered in 2008 while prospecting along a boulder talus slope. The showing is located approximately 350 m northwest of the SP Showing within the Lucky Trend. A large area containing sparse quartz vein material and massive galena was outlined in 2009. The distribution of the mineralized float was mapped, leading to a band of rusty cliffs. A sample taken from this float returned 983 g/t Ag and 45.77% Pb.

In 2019, seven rock samples were collected in the area of the Scree Showing. The best sample, taken from a boulder of brecciated and silicified dolomite with galena-bearing quartz veining, returned 244 g/t silver and 10.15% lead, while a composite sample taken at a historical hand trench returned 79.7 g/t silver, 3.77% zinc and 0.42% lead.

Mineralization could not be found in the overlying cliffs, suggesting that the source of the float is likely buried under talus.

Rob #1 Showing

The Rob 1 Showing is a north-south-trending limonite altered vein fault hosting localized galena pods and strong malachite staining. It is hosted in buff weathering dolomitic siltstone on a west-trending spur ridge below Pass Peak in the extreme south of the property, near the claim boundary.

The area was relocated in 2008 but could not be followed up due to deep snow cover. A float sample taken in 2008 assayed 2000 g/t silver, 77.21% lead, and 1.3% copper.

Prospecting in 2009 traced mineralized float roughly 200 m uphill from a small vein exposure developed along a nearby access road. The most abundant float occurs in an area of shallow overburden on a ridge crest on the western flank of Pass Peak. No prospecting has been done south of the ridge crest. The orientation of the float train is consistent with the vein's measured strike in the bedrock exposure.

In 2009, one chip sample and two float samples were collected immediately uphill of the vein exposure and three grab samples were taken near the ridge crest. The chip sample returned 382.6 g/t silver, 14.47% lead, and 7.15% zinc over 0.5 m, while the better mineralized grab sample assayed 2440 g/t silver, 58.57% lead, and 5.69% zinc. The best of the grab samples from the ridge crest yielded 1665 g/t silver and 72.92% lead.

In 2020, five rock samples were collected from the area of the Rob #1 Showing. The best sample, a composite sample collected from a two-metre-wide historical hand trench, returned 5310 g/t silver, 20.5% lead, 0.27% zinc, 1.95% copper and 4100 ppm arsenic.

In 2022, two samples were collected from the ridgetop float train found in 2009. A grab sample of semi-massive galena with minor chalcopyrite taken from the float train returned 234 g/t silver, 0.3% copper, 11.7% lead and 3.2% zinc.

Foggy Showing

Approximately 200 m west-northwest of the Rob #1 mineralized ridgetop float, a quartz vein zone approximately 10 m tall and 50 m wide is hosted in buff weathering dolomitic siltstone. It lies directly upslope of a contact with dolomitic phyllite and several tens of metres below a contact with phyllitic black shale. The quartz veins are 10 cm to 2 m wide and are mostly steeply-dipping with a northwesterly strike. A prominent one to two metre wide milky white quartz vein which has a shallower dip is exposed for 11 m and appears unmineralized. The veins are weakly mineralized with pods of galena and there is oxidized quartz vein breccia with greater abundances of galena in float. Three rock samples were collected from the Foggy Showing in 2022. A locally oxidized portion of quartz vein outcrop returned 4.0% zinc. Float and

subcrop grab samples of semi-massive to massive galena found just 25 m upslope of the vein yielded 2120 g/t silver, 78.6% lead, and 0.45% zinc and 755 g/t silver, 29.2% lead, and 24.7% zinc, respectively.

Rob #2 Showing

The Rob #2 Showing comprises gold-bearing breccias which are hosted in buff weathering dolomitic siltstone. The structures at Rob #2 are unique on the Groundhog property in their metal signature, hosting gold-arsenic enrichment and lacking silver-lead-zinc. The showing was initially discovered in 1996 but lay dormant until its rediscovery in 2009. Several northwest trending historical trenches are present, including a 50 m long trench at the showing that exposes outcrop of medium grey, strongly silicified breccia and float of strongly oxidized, banded quartz cataclasite and punky, strongly oxidized cobbles. A chip sample across the brecciated shear zone in 1996 returned 2.375 g/t gold over 2.2 m.

The Rob #2 Showing lies along a prominent southwest trending recessive linear feature that coincides with the large creek valley containing White Creek. Rocks containing up to 0.54 g/t gold have been collected along this recessive linear up to 250 m from the main ridgetop bulldozer trench. Approximately 50 m southwest of Rob #2 is a float train of strongly oxidized quartz breccia to cataclasite that strongly resembles the oxidized breccia in the Rob #2 trench. Two float samples collected from this area in 2022 yielded 0.54 g/t and 0.59 g/t gold, respectively.

Ruzsy Showing

The Ruzsy Showing is located on a break in slope approximately 500 m east of the Rob #2 showing. It is a named showing that was rediscovered in 2022. It consists of a 10 m long, northwest trending exposure of dolomitic siltstone subcrop and a highly fractured, greater than 1.5 m wide quartz vein that partially outcrops. Some subcrop to float material is oxidized vein fault breccia. It is not possible to get an orientation on the vein or breccia zone.

A composite sample collected in 2020 across outcropping dolomitic siltstone with vuggy and boxwork textures and galena-pyrite mineralization returned 0.465 g/t gold over eight metres. A float sample – taken approximately 75 m northwest of the Ruzsy Showing in 2020 – of galena-bearing brecciated and silicified dolomite returned 1715 g/t silver, 20.5% lead, 9.97% zinc and 0.177% ppm copper. A flagged vuggy, strongly silicified rock containing disseminated and aggregated pyrite was found in 2022 sitting atop the quartz vein.

BP Showing

The BP Showing is located 500 m east of the Rob #2 Showing. The showing is marked on historical maps of the area, but no additional information or data is available from these records, so the nature of the showing is not well known. In 2022, a float sample of oxidized

breccia containing seams of galena found 50 m northeast of the BP showing returned 150 g/t silver and 11.3% lead.

Galena Showing

The Galena Showing was identified during the 2022 field program and is exposed in two handpits dug in the base of an old bulldozer trench approximately 50 m southeast of the Rob #2 trench. It consists of approximately two metres of centimeter-scale oxidized veins with seams and patches of galena which, unlike the Rob #2 breccias, are enriched in silver-lead-zinc but not gold-arsenic. The vein orientations are difficult to constrain due to poor exposure, but they trend approximately 170°, oblique to the southwest-trending breccia zone at Rob #2. The best sample – a subcrop grab taken in 2020 – returned 4750 g/t silver, 20.5% lead and 0.44% copper. An 80 cm chip sample taken in 2022 across 30 cm of mineralization and 50 cm of surrounding wall rock yielded 55 g/t silver and 1.54% lead.

Irish Showing

The Irish Showing was discovered in 2022 while following up a weakly mineralized 2020 float sample of malachite crusted quartz-dolomite material that assayed 0.272 g/t gold and 465 g/t silver. The showing is exposed in buff weathering dolomite cliffs 100 m to the northeast of the Rob #2 and Galena Showings. The mineralization consists of lenticular, sheeted, widely spaced five to 80 cm wide extensional quartz veins containing isolated pods of tetrahedrite±galena over approximately 15 m. The veins strike northwest and dip moderately, cross cutting dolomite bedding. As a system, they are exposed in dolomite cliffs for 100 m, although individual veins pinch out along strike. A mineralized outcrop sample taken from one of these veins returned 192 g/t silver and 1.6% lead.

Strat and Geo Showings

The Strat and Geo showings consist of laminated and disseminated galena, sphalerite and chalcopyrite in a Lower Cambrian unit comprised of tuffaceous phyllite and quartz-carbonate phyllite. These showings are located 1500 m apart on the opposite side of a broad valley. They lie within the same stratigraphic section, directly above the Pass Peak Thrust Fault. The Strat Showing has been traced for a length of approximately 100 m, with thicknesses ranging between 0.5 and two metres. The Geo Showing has been traced for a length of over 200 m, and range between one and two metres in width.

In 2009, chip samples were collected from three hand trenches that were dug at the Strat Showing within historical bulldozer trenches, and two chip samples were taken at the Geo Showing from outcrops. Most of these samples returned sub-economic values for silver, lead and zinc. The best samples from the Strat Showing returned 13.9 g/t silver, 0.50% lead and 1.47% zinc over 0.78 m and 23.3 g/t silver, 0.58% lead and 2.19% zinc across 0.25 m. The best sample from the Geo Showing yielded 3.4 g/t silver, 0.25% lead and 0.28% zinc over 2.2 m.

A new style of mineralization was found at the Geo Showing in 2022. Approximately 10 m upslope of the end of the ATV road is an isolated, lenticular, foliation-parallel, five centimetres wide quartz vein in strongly deformed calcareous phyllite hosting fine grained, semi-massive bands of galena, sphalerite, chalcopyrite and pyrite. A grab sample across the entire vein returned 1.6% lead and 1.9% zinc.

An additional 40 m upslope is a one- to two-metre-wide zone of massive, medium-grained iron oxide with minor disseminated pyrite±galena and light brown carbonate in a cliff band outcrop above a large talus slope. This zone was traced in outcrop over 70 m of strike and is offset by minor shears with metre-scale apparent displacements. The host rock is strongly deformed light green to silvery grey micaceous phyllite. Samples from this zone were not enriched in the precious and base metals of interest.

JTG Showing

In 2019, a float sample – taken on the slope 330 m to the north of the JW showing – of oxidized limonitic breccia returned 5.91 g/t gold, the highest value of gold found to date on the property. Another float sample of unaltered calcareous breccia taken seven metres away returned 0.465 g/t Au with 2.9 g/t Ag. These samples exhibit a different geochemical signature than rocks collected elsewhere on the property – except Rob #2 – with enrichment in gold and arsenic and relative absence of silver, lead and zinc, which is consistent with mineralization more proximal to a causative intrusion.

SOIL GEOCHEMISTRY

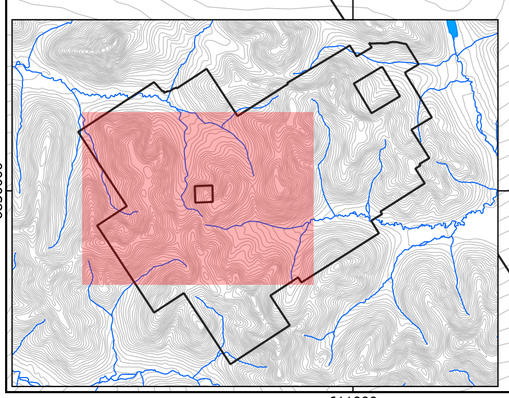
In 2022, a total of 488 soil geochemical samples were collected on four soil grids in the western and southwestern parts of the property in areas lacking coverage. Samples were taken at 50 m spacing, along lines spaced 100 m apart with azimuth 55°.

Sample handling and analytical procedures used in 2022 are described in Appendix III, while rock sample descriptions are located in Appendix IV and certificates of analysis are provided in Appendix V. Anomalous thresholds for soil values are listed in Table III below. Figure 13 shows 2022 soil sample locations. Figures 14 to 18 illustrate thematic soil results for gold, arsenic, silver, lead and zinc, respectively.

611000 612000 613000 614000 615000 616000

6833000 6832000 6831000 6830000

True North
Grid North 0°51'
Mean Annual Dec. 19° 21' E
Annual change 0.20' W



Groundhog_soil_2022
Groundhog_boundary
Roads_Surveyed

HONEY BADGER SILVER INC.

FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

2022 SOIL SAMPLE LOCATIONS

GROUNDHOG PROPERTY

0 200 400 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: January 2023

610000 612000 614000 616000

6836000 6834000 6832000 6830000 6828000

True North

Grid North 0°51'

Magnetic North 19° 23' E

Annual change 0.20' W

PASS

NOSE

PIKA

CIRQUE

BILL

PN

LUCKY

JILL

CRACK

STRAT

OTTER

BUZSY

BP

IRISH

GALENA

SCREE

GEO

SP

JDG

M

HO

MUKLUK

FOGGY

ROB 1

Gold-in-soil (ppb)

- 0 - 5
- 5 - 10
- 10 - 20
- 20 - 50
- 50 - 100
- 100 - 1650

Gold-in-silt (ppb)

- 0 - 5
- 5 - 10
- 10 - 20
- 20 - 50
- 50 - 100
- 100 - 1000
- Showings
- Mineralized zones
- Roads_Surveyed
- Groundhog_boundary

HONEY BADGER SILVER INC.

FIGURE 14

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD SOIL AND SILT GEOCHEMISTRY

GROUNDHOG PROPERTY

0 50 100 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: January 2023

610000 612000 614000 616000

6836000 6834000 6832000 6830000 6828000

True North
Grid North 0°49'
Magnetic North 18° 90' E
Annual change 0.15' W

PASS
NOSE
PIKA
CIRQUE
BILL
PN
LUCKY
JILL
CRACK
STRAT
OTTER
BUZSY
BP
HORN
IRISH
ROB
GALENA
SHELBY
AZTEC
SCREE
GEO
SP
ITG
M
HO
MUKLUK
FOGGY
ROB 1

Arsenic-in-soil (ppm)
- 0 - 1
- 1 - 1
- 50 - 100
- 100 - 200
- 200 - 500
- 500 - 2240

Arsenic-in-silt (ppm)
- 0 - 20
- 20 - 50
- 50 - 100
- 100 - 200
- 200 - 500
- 500 - 1000
- Showings
- Mineralized zones
- Roads_Surveyed
- Groundhog_boundary

HONEY BADGER SILVER INC.

FIGURE 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARSENIC SOIL AND SILT GEOCHEMISTRY

GROUNDHOG PROPERTY

0 50 100 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: January 2023

610000 612000 614000 616000

6836000 6834000 6832000 6830000 6828000

True North

Grid North 0°51'

Magnetic North 19° 23' E

Annual change 0.20' W

PASS

NOSE

PIKA

CIRQUE

BILL

PN

LUCKY

JILL

CRACK

STRAT

CUTER

BUZSY

BP

IRISH

CALENA

SCREE

ZEEK

GEO

SP

bTG

M

HOT

MW

MUKLUK

FOGGY

ROB 1

Silver-in-soil (ppm)

- 0 - 1
- 1 - 1
- 1 - 2
- 2 - 5
- 5 - 10
- 10 - 10000

Silver-in-silt (ppm)

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 5
- 5 - 10
- 10 - 1000
- Showings
- Mineralized zones
- Roads_Surveyed
- Groundhog_boundary

HONEY BADGER SILVER INC.

FIGURE 16

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER SOIL AND SILT GEOCHEMISTRY

GROUNDHOG PROPERTY

0 50 100 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: January 2023

610000 612000 614000 616000

6836000 6834000 6832000 6830000 6828000

True North

Grid North 0°51'

Magnetic North 19° 23' E

Annual change 0.20' W

PASS

NOSE

PIKA

CIRQUE

BILL

PN

LUCKY

JILL

CRACK

STRAT

OTTER

BUZSY

BP

IRISH

CAIRN

GEO

SCREE

SP

TG

M

MUKLUK

FOGGY

ROB 1

Lead-in-soil (ppm)

- 0 - 20
- 20 - 50
- 50 - 100
- 100 - 200
- 200 - 500
- 500 - 34200

Lead-in-silt (ppm)

- 0 - 20
- 20 - 50
- 50 - 100
- 100 - 200
- 200 - 500
- 500 - 1000
- Showings
- Roads_Surveyed
- Groundhog_boundary
- Mineralized zones

HONEY BADGER SILVER INC.

FIGURE 17

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LEAD SOIL AND SILT GEOCHEMISTRY

GROUNDHOG PROPERTY

0 50 100 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: January 2023

610000 612000 614000 616000

6836000 6834000 6832000 6830000 6828000

True North

Grid North 0°51'

Magnetic North 19° 23' E

Annual change 0.20' W

PASS

NOSE

PIKA

CIRQUE

BILL

PN

LUCKY

JILL

CRACK

STRAT

OTTER

BUZSY

BP

IRISH

PAPEND

AZTEK

SCREE

GEO

SP

MUKLUK

FOGGY

ROB 1

M

HO

Zinc-in-soil (ppm)

- 0 - 100
- 100 - 200
- 200 - 500
- 500 - 1000
- 1000 - 2000
- 2000 - 13850

Zinc-in-silt (ppm)

- 0 - 100
- 100 - 200
- 200 - 500
- 500 - 1000
- 1000 - 2000
- 2000 - 5000
- Showings
- Mineralized zones
- Roads_Surveyed
- Groundhog_boundary

HONEY BADGER SILVER INC.

FIGURE 18

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC SOIL AND SILT GEOCHEMISTRY

GROUNDHOG PROPERTY

0 50 100 m

UTM ZONE 8, NAD 83, NTS 115O/10, 115O/07

FILE: ...PROJECTS/GROUNDHOG/2022 | Date: January 2023

Table III- Anomalous Threshold Values for Soil Samples

Element	Weak	Moderate	Strong	2022 Peak	Historical Peak
Silver (ppm)	>2 ≤5	>5 ≤10	>10	5.4	72.2
Lead (ppm)	>100 ≤200	>200 ≤500	>500	1,115	34,200
Zinc (ppm)	>200 ≤500	>500 ≤1000	>1000	2,560	13,900
Gold (ppb)	>20 ≤50	>50 ≤100	>100	30	327
Arsenic (ppm)	>50 ≤100	>75 ≤150	>150	155	1,940

The 2022 soil geochemical survey uncovered zones of anomalous silver-, lead- and zinc-in-soil.

Coincident, moderately anomalous silver and strongly anomalous lead and zinc were found in two discrete zones near the Cirque and Nose Showings. The first is located beyond the northwestern extent of the Cirque vein, which could extend the zone by 150 m. The second is linear, west-northwest-trending, cross-slope anomaly approximately 300 m west of the Nose Showing.

A somewhat dispersed, 400 by 300 m zone of anomalous lead-in-soil (peak value 1080 ppm) is located 270 m north of the PETE 1 claim, owned by R. Berdahl, that hosts the PN and Lucky Showings. These showings are known to host rocks with highly anomalous silver, copper, lead and zinc, however, the lead-in-soil anomaly discovered in 2022 is across slope from the showings and thus cannot be a manifestation of those showings themselves.

An elongate, approximately 850 by 150 m, east-west trending zone of anomalous lead is located in the White Creek valley on the northwest side of White Creek itself. It contains peak lead-in-soil values of 1115 ppm.

Two exploratory soil lines between the Bill and Pika Showings returned weak to moderate anomalies in some metals of interest. There are weak zinc anomalies in the western half of the soil lines (peak value of 632 ppm zinc) and in the easternmost samples, near the Pika Showing. The sample taken closest to the Pika Showing returned 245 ppm lead, the highest in the entire grid.

DISCUSSION AND CONCLUSIONS

The Groundhog property hosts numerous silver-lead ± zinc ± gold showings, most of which occur near fault structures that lie along the Sheep and Lucky trends. Mineralization is mainly found as vein, breccia and replacement zones within Silurian-age carbonate rocks. High-grade silver-lead veins and manto-type gold and/or silver-lead-zinc deposits are known to occur in the district and these deposit types are very attractive exploration targets. Numerous lead-silver soil and rock geochemical anomalies and more localized gold-arsenic anomalies are found

across the property, which were largely discovered by historical exploration programs, but rarely evaluated adequately.

The various silver-lead-zinc showings that occur on the property are analogous to distal veins, breccias and replacement zones developed along the flanks of heat-proximal, gold-rich, showings found around the Ketza gold-bearing manto deposit and Tay LP gold-bearing skarn/breccia showings. The mineralogically and geologically settings in these areas are analogous to the settings found in the Seagull Uplift and, further exploration may to help guide additional significant discoveries at the Groundhog property.

The gold-arsenic geochemical signatures found at the Aztek and Rob 2 Showings of the Sheep Trend, and their respective soil geochemical anomalies, core a much larger area of silver-, lead- and zinc-bearing mineralization. These showings also coincide with a localized magnetic low and have areas of silicification and silica replacement features that are not observed elsewhere on the property. These geochemical, geophysical and alteration signatures indicate that gold-bearing mineralization related to heat-proximal zones in intrusion related mineralizing systems is present on the property. The presence of both distal and proximal mineralization at the Groundhog property highlights the potential for a deposit with economic silver and/or gold values. Future work is definitely warranted, and should include but not be limited to the following recommendations:

1) Property-scale Lidar in conjunction with structural and lithographical mapping should be conducted to cover areas of the property with little or no geological coverage. Mineralization on the property is often directly related to structural zones that allow for hydrothermal fluid flow, so identifying additional fault structures on the property is critical to continued exploration success.

2) Detailed mineralogical observations at each of the known showings should be made in order to catalogue and help vector into additional silver or gold-related discoveries. Understanding changes in mineralogy at these showings can help with vectoring into proximal mineralization zones.

3) Hand or excavator trenching should be conducted in areas with strong soil geochemical anomalies or in areas with mineralized float to attempt exposing in-situ mineralization. This method of exploration has historically been successful, as seen at the PN Vein, which was exposed by hand trenching across a mineralized float train.

4) Soil geochemical sampling should be conducted in areas that do not adequately delineate the full extent of geochemically anomalous areas in order to fully evaluate their size. Reconnaissance soil sampling along ridges and spurs should also be performed in the central and eastern parts of the property to identify future areas for exploration. Soil samplers should also collect samples from any recessive linear features during this work.

5) Detailed ground-based gravity and/or ELF-EM survey over the property will help delineate structural and mineralized zones.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



K. Carroll, B.Sc.

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APPENDIX I

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Kate Carroll, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Whitehorse, Yukon, do hereby certify that:

1. I graduated from the University of British Columbia in 2015 with a B.Sc. (Hons) in Geology.

2. From 2021 to present, I have been actively engaged in mineral exploration in the Yukon.

3. I am a full-time employee of Archer, Cathro & Associates (1981) Limited.

4. I participated in the field program and have interpreted all data resulting from this work.



K. Carroll, B.Sc.

APPENDIX II

YMEP STATEMENT OF EXPENDITURES

YMEP No: 22-034	Project Name: Groundhog		Applicant Name: Honey Badger Silver Inc.
Expense Claim No:	Project Type: Hard Rock		Program module: Target Evaluation
Date Submitted: January 31, 2023	Phone: 867 667 4415		email: lsmith@archercathro.com
Address: 41 MacDonald Road, Whitehorse, YT, Y1A 4R1			

Start and end dates of fieldwork	July 26 - August 4, 2022		Number of field days	10
Daily Field Expenses		Number Days	Rate/Day	Total
Number of Persons:		39	$ 100.00	$ 3,900.00
Persons	Position	Days	Rate/Day	Total
P3 Geologist	Sr. Geo	4	$ 500.00	$ 2,000.00
P2 Geologist	Sr. Geo	11	$ 500.00	$ 5,500.00
P6 Partner	Sr. Geo	0.25	$ 500.00	$ 125.00
P1 Geologist	Geo	11	$ 400.00	$ 4,400.00
CL1 Labour	Labour	10	$ 275.00	$ 2,750.00
CE2 Expeditor	Technician	4	$ 350.00	$ 1,400.00
A2 Admin	Technician	2.75	$ 350.00	$ 962.50
T3 Geo Tech	Technician	10	$ 350.00	$ 3,500.00
W2 Warehouse Manager	Technician	3	$ 350.00	$ 1,050.00
S2 ESG Manager	Technician	0.25	$ 350.00	$ 87.50
			Total Field	$ 21,775.00

Equipment	Days	Rate/Day	Total
Kubota 900, 10 days $100/day			$ 1,000.00
Tidy Tank, 10 days, $5/day			$ 50.00
Highboy Trailer, 2 days, $150/day			$ 300.00
Truck Rental and Mileage			$ 1,632.00
Lath			$ 383.40
		Equipment Total	$ 3,365.40

Other				
Persons/ Supplier	Position	Days	Rate/Day	Total
P2 Geologist - Report	Sr. Geo	5	$ 500.00	$ 2,500.00
ALS, as attached				$ 14,010.55
			Other Total	$ 14,010.55
			Total expenditures - YMEP	$ 43,050.95

APPENDIX III

SAMPLE HANDLING AND ANALYTICAL PROCEDURES

SAMPLE HANDLING AND ANALYTICAL PROCEDURES

All rock and soil samples collected during the 2022 program were sorted into rice bags and sealed with a plastic zap strap on the Groundhog property. Samples were brought to Whitehorse by Archer Cathro personnel. Sample bags were temporarily stored at the Archer Cathro office prior to shipment. All samples were delivered by truck to ALS Laboratories in Whitehorse, Yukon.

Rock Geochemical Samples

All 2022 rock sample sites were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Rock sample preparation was performed at ALS Laboratories in Whitehorse, Yukon. Each sample was dried and fine crushed to better than 70% passing 2 mm, then a 250 g split was pulverized to better than 85% passing 75 microns (PREP-31). This fine portion was shipped to ALS Minerals Laboratory in North Vancouver, BC. The fine fraction was analyzed for 35 elements using aqua regia digestion followed by inductively coupled plasma-atomic emission spectroscopy (ME-ICP41). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Overlimit values for silver, copper, lead and zinc were determined by agua regia digestion followed by inductively coupled plasma-atomic emission spectroscopy (Ag/Cu/Pb/Zn-OG46). Samples with higher grade silver and lead were then analyzed by fire assay with gravimetric finish (Ag-GRA21) and by titration (Pb-VOL70), respectively.

Soil Geochemical Samples

All 2022 soil sample locations were recorded using handheld GPS units. Sample sites were marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 0 to 80 cm deep holes using hand-held augers. They were placed into individually pre-numbered Kraft paper bags. Soil sample preparation was performed at ALS Minerals in Whitehorse, where the samples were dried and screened to <180 microns (PREP-41). The fine fractions were then shipped to ALS Minerals in North Vancouver, where they were dissolved in aqua regia and analyzed for 35 elements using inductively coupled plasma-atomic emission spectroscopy (ME-ICP41). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma-atomic emission spectroscopy finish (Au-ICP21).

APPENDIX IV

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions Property: Groundhog

Sample Number:	D007237	Date Collected:	27/07/2022	UTM:	611636	mE	Nad83, Zone 8
Elevation:	1806 m	Sampler:	Unknown Person	UTM:	6832752	mN	

Comments: 30cm vein trending 220N, tetrahedrite veins within quartz vein. Vein in dolostone, some malachite and yellow and green clays. Chip sampled across vein

Sample Number:	D007238	Date Collected:	27/07/2022	UTM:	611636	mE	Nad83, Zone 8
Elevation:	1806 m	Sampler:	Unknown Person	UTM:	6832725	mN	

Comments: 45cm quartz vein, malachite, azurite and tetrahedrite (in clumps) found in 30cm diameter blobe near highly brecciated section of the vein. Wall work dolostone

Sample Number:	D007239	Date Collected:	28/07/2022	UTM:	613206	mE	Nad83, Zone 8
Elevation:	1879 m	Sampler:	Unknown Person	UTM:	6830458	mN	

Comments: 80cm sample crossing a 30cm mineralization zone of Galena and red oxidation +/- tetrahedrite. Mineralization coating in veins appears to be filling voids. Mineralization zone trending 174/71 (low confidence on dip due to dip variation). Wall rock is light blue grey dolostone, weathering light beige.

Sample Number:	D007240	Date Collected:	28/07/2022	UTM:	613206	mE	Nad83, Zone 8
Elevation:	1879 m	Sampler:	Unknown Person	UTM:	6830458	mN	

Comments: Dolostone with Galena +/- tetrahedrite coating and infilling voids. Outcrop grab sample taken from histroical hand pit.

Sample Number:	D007241	Date Collected:	28/07/2022	UTM:	613208	mE	Nad83, Zone 8
Elevation:	1881 m	Sampler:	Unknown Person	UTM:	6830456	mN	

Comments: 1m chip sample acr oss subcrop with mineralization zone (not sure of width on mineralization). Dissiminated Galena. Mineralization zone trending ~ 171. Dolostone wall rock.

Sample Number:	D007242	Date Collected:	28/07/2022	UTM:	613208	mE	Nad83, Zone 8
Elevation:	1881 m	Sampler:	Unknown Person	UTM:	6830456	mN	

Comments: Dolostone with dissiminated Galena +/- tetrahedrite. Grab sample from subcrop in historically dug hand trench.

Rock Sample Descriptions Property: Groundhog

Sample Number:	D007243	Date Collected:	29/07/2022	UTM:	613120	mE	Nad83, Zone 8
Elevation:	1777 m	Sampler:	Unknown Person	UTM:	6829966	mN	

Comments: Quartz infilled breccia with fine grained dolostone clasts. Yellowy orange oxidation.

Sample Number:	D007244	Date Collected:	29/07/2022	UTM:	613262	mE	Nad83, Zone 8
Elevation:	1861 m	Sampler:	Unknown Person	UTM:	6829963	mN	

Comments: Dolostone with quartz veining, beside fault gauge. Sample taken from road cut. Orange to red oxidization

Sample Number:	D007245	Date Collected:	30/07/2022	UTM:	613816	mE	Nad83, Zone 8
Elevation:	1581 m	Sampler:	Unknown Person	UTM:	6828730	mN	

Comments: Dissimated sphalerite and dark black sugary mineral in quartz infilled breccia with silicified mudstone clasts. Mineralization and dark red oxidation appears in 5-30cm bands throughout outcrop. Historical hand pit trench dug out a similar outcrop ~4m above sample site.

Sample Number:	D007246	Date Collected:	30/07/2022	UTM:	613827	mE	Nad83, Zone 8
Elevation:	1593 m	Sampler:	Unknown Person	UTM:	6828701	mN	

Comments: 1m chip sample running NNE to SSW across ~30cm mineralized band in outcrop. Dissiminated sphalerite and black graining mineralization in quartz rich band. Wall rock appears to be quartz infilled breccia with ine grained silicified mudstone clasts.

Sample Number:	D007247	Date Collected:	01/08/2022	UTM:	612862	mE	Nad83, Zone 8
Elevation:	1639 m	Sampler:	Unknown Person	UTM:	6830035	mN	

Comments: 1.3m chip sample 85 degrees north across 70cm altered zone trending 160 degree north. Red orange oxidation and areas turining to clay, Galena mineralization in veins and in podes, patches of sphalerite and malachite mineralization, dissiminated pyrite, +/- tetrahedrite and calcopyrite. Qz infilled fault breccia, wall rock pure qz vein, dolomite and dark grey mudstone.

Sample Number:	D007248	Date Collected:	01/08/2022	UTM:	612864	mE	Nad83, Zone 8
Elevation:	1636 m	Sampler:	Unknown Person	UTM:	6830035	mN	

Comments: Quartz infill breccia along fault (?) mineralized zone. Alteration zone has bands (~1mm) and pods of Galena, sphalerite pods, dissiminated pyrite +/- tetrahedrite. Clasts silicified mudstone.

Rock Sample Descriptions Property: Groundhog

Sample Number:	D007249	Date Collected:	02/08/2022	UTM:	613174	mE	Nad83, Zone 8
Elevation:	1867 m	Sampler:	Unknown Person	UTM:	6830493	mN	

Comments: Dolomite infill breccia oxidizing yeloow and pink with dolostone clasts. Taken from handpit ~40cm deep.

Sample Number:	D007250	Date Collected:	02/08/2022	UTM:	613174	mE	Nad83, Zone 8
Elevation:	1868 m	Sampler:	Unknown Person	UTM:	6830496	mN	

Comments: Dolomite infill breccia oxidizing yellow and pink with dolostone clasts, slightly punky texture. Subcrop taken from handpit ~50cm deep.

Sample Number:	E813026	Date Collected:	29/07/2022	UTM:	613585	mE	Nad83, Zone 8
Elevation:	1677 m	Sampler:	Unknown Person	UTM:	6830894	mN	

Comments: Outcrop grab sample of sucrosic m.g. milky white qtz from zone of strongly silicified dolomitic siltstone; contains +/- minor disseminated, oxidized py and clasts of variably sericite + clay altered dolomitic siltstone

Sample Number:	E813027	Date Collected:	29/07/2022	UTM:	613628	mE	Nad83, Zone 8
Elevation:	1716 m	Sampler:	Unknown Person	UTM:	6830754	mN	

Comments: Subcrop grab sample from Ruzsy Showing of qtz fault vein breccia with yellow to orange oxidized clay matrix (clast supported); very minor disseminated m.g. gn

Sample Number:	E813028	Date Collected:	29/07/2022	UTM:	613702	mE	Nad83, Zone 8
Elevation:	1716 m	Sampler:	Unknown Person	UTM:	6830685	mN	

Comments: Float sample of oxidized breccia with silicified med. grey f.g. clasts (dolomitic siltstone?) and soft, greasy lustre, v.f.g. black clasts with milky white c.g. to sucrosic veinlets and infill of qtz; contains ~5% disseminated and banded f.g. to m.g. gn and vuggy limonite (~2J:8G) interstitial to qtz and clasts

Sample Number:	E813029	Date Collected:	29/07/2022	UTM:	613125	mE	Nad83, Zone 8
Elevation:	1841 m	Sampler:	Unknown Person	UTM:	6830415	mN	

Comments: Float sample from float train of variably oxidized qtz vein breccia and gouge with soft v.f.g. black matrix

Rock Sample Descriptions Property: Groundhog

Sample Number:	E813030	Date Collected:	30/07/2022	UTM:	613753	mE	Nad83, Zone 8
Elevation:	1583 m	Sampler:	Unknown Person	UTM:	6828662	mN	

Comments: 1.6 m chip sample oriented ~E-W acros zone of sooty weathering, moderately silicified and locally dark rust brown oxidized medium grey dolomitic f.g. sandstone; at least one of the oxidized zones ~10 cm wide is oriented 293/81 (sub-parallel to dolostone bedding)

Sample Number:	E813031	Date Collected:	30/07/2022	UTM:	613772	mE	Nad83, Zone 8
Elevation:	1588 m	Sampler:	Unknown Person	UTM:	6828703	mN	

Comments: Outcrop grab sample of super punky, oxidized rock from ~1 m wide oxidized zone in JW shear zone; limonite is 100H, 1J:1G:50H and 60J:40G

Sample Number:	E813032	Date Collected:	30/07/2022	UTM:	613763	mE	Nad83, Zone 8
Elevation:	1582 m	Sampler:	Unknown Person	UTM:	6828701	mN	

Comments: Outcrop grab sample taken beside sample E813031; m.g. white secondary dolomite with very minor (<1%) disseminated f.g. silvery-black metallic mineral; contains surfaces coated with very soft f.g. semi-metallic dark grey mineral

Sample Number:	E813033	Date Collected:	30/07/2022	UTM:	613761	mE	Nad83, Zone 8
Elevation:	1582 m	Sampler:	Unknown Person	UTM:	6828707	mN	

Comments: Float sample take from above streambed; white to pale yellow m.g. dolomite with infill bands of dark grey f.g. mineral; contains pods and disseminations of honey brown to grey brown sphalerite and vuggy, clay + limonite-filled cavities; strong white hydrozincite surface coatings

Sample Number:	E813034	Date Collected:	30/07/2022	UTM:	613822	mE	Nad83, Zone 8
Elevation:	1589 m	Sampler:	Unknown Person	UTM:	6828739	mN	

Comments: 80 cm chip sample across dolomitized and silicified dolostone with aggregates of f.g., semi-metallic, soft, silvery black mineral and minor disseminated py; dolomite is light yellow-orange clay-altered

Rock Sample Descriptions Property: Groundhog

Sample Number:	E813035	Date Collected:	30/07/2022	UTM:	613822 mE	Nad83, Zone 8
Elevation:	1585 m	Sampler:	Unknown Person	UTM:	6828739 mN	

Comments: Outcrop grab sample from same outcrop as sample E813034; dolomitized and silicified dolostone with aggregates of f.g., semi-metallic, soft, silvery black mineral and minor disseminated py; dolomite is light yellow-orange clay-altered

Sample Number:	E813036	Date Collected:	01/08/2022	UTM:	612440 mE	Nad83, Zone 8
Elevation:	1747 m	Sampler:	Unknown Person	UTM:	6829769 mN	

Comments: Outcrop grab sample from Geo showing; massive, c.g., beige sph, variably limonite (100H) altered with minor (~1%) disseminated f.g. py and minor milky white qtz veinlets and bands of f.g., soft, dark forest green host rock

Sample Number:	E813037	Date Collected:	01/08/2022	UTM:	613143 mE	Nad83, Zone 8
Elevation:	1787 m	Sampler:	Unknown Person	UTM:	6830004 mN	

Comments: Float sample taken from near Aztec showing; qtz infill breccia with clasts and bands of f.g. dark grey silicified wall rock; weakly oxidized surface coatings

Sample Number:	E813038	Date Collected:	01/08/2022	UTM:	612869 mE	Nad83, Zone 8
Elevation:	1640 m	Sampler:	Unknown Person	UTM:	6830030 mN	

Comments: Float sample taken near qtz vein outcrop at Sheep showing; v.c.g. oxidized qtz with pods of c.g. gn +/- py (up to 10%) and disseminated c.g. py + sph

Sample Number:	E813039	Date Collected:	03/08/2022	UTM:	612858 mE	Nad83, Zone 8
Elevation:	1323 m	Sampler:	Unknown Person	UTM:	6830039 mN	

Comments: Outcrop grab sample of semi-massive dark brown sphalerite in orange liminitic fault gouge with minor disseminated fine-grained pyrite and tetrahedrite; centimeter-wide milky white quartz veinlets.

Sample Number:	E814401	Date Collected:	01/08/2022	UTM:	612406 mE	Nad83, Zone 8
Elevation:	1682 m	Sampler:	Unknown Person	UTM:	6829840 mN	

Comments: Outcrop grab sample of approx. 5cm wide lenticular foliation-parallel milky white quartz vein with semi-massive banded fine-grained galena, sphalerite, chalcopyrite, pyrite in calcareous phyllite with bands of pale green micaceous mineral.

Rock Sample Descriptions Property: Groundhog

Sample Number:	E814402	Date Collected:	01/08/2022	UTM:	612446	mE	Nad83, Zone 8
Elevation:	1748 m	Sampler:	Unknown Person	UTM:	6829764	mN	

Comments: 1.3m chip sample of Geo zone. Massive sphalerite (maroon to orange-grey in colour) with sets of parallel quartz veinlets. Patches of reddish-orange oxidation. Patches of unknown fine-grained green mineral, sometime among sphalerite. Hosted in strongly deformed calcareous phyllite, parallel to bedding (stratiform).

Sample Number:	E814403	Date Collected:	01/08/2022	UTM:	613225	mE	Nad83, Zone 8
Elevation:	1833 m	Sampler:	Unknown Person	UTM:	6829702	mN	

Comments: Composite float sample of suspected fault, collected in old trench (see Kate Carroll's notes for trench info). Heavily oxidized breccias, some with quartz. Siliceous fine-grained sandstone also present.

Sample Number:	E814404	Date Collected:	01/08/2022	UTM:	613150	mE	Nad83, Zone 8
Elevation:	1784 m	Sampler:	Unknown Person	UTM:	6829874	mN	

Comments: 1.5m chip sample of subcrop near Aztec showing. Quartz breccia with shale (and dolostone?) clasts. Rock is heavily weathered, varying in colour from bright rusty orange to dark reddish-brown to greenish-yellow (scorodite?).

Sample Number:	E814405	Date Collected:	01/08/2022	UTM:	612858	mE	Nad83, Zone 8
Elevation:	1613 m	Sampler:	Unknown Person	UTM:	6830034	mN	

Comments: High grade float sample from creekbed, downstream of Sheep showing. Quartz, oxidized rusty-orange and bearing massive galena.

Sample Number:	E814406	Date Collected:	02/08/2022	UTM:	611601	mE	Nad83, Zone 8
Elevation:	1804 m	Sampler:	Unknown Person	UTM:	6832762	mN	

Comments: 1m chip sample of subcroppy fault breccia. Heavily fractured, next to solid outcrop of dolostone. Strongly oxidized, ranging in colour from reddish-brown to bright orange to green. Punky, lots of cavities.

Rock Sample Descriptions Property: Groundhog

Sample Number:	E814407	Date Collected:	02/08/2022	UTM:	611450	mE	Nad83, Zone 8
Elevation:	1796 m	Sampler:	Unknown Person	UTM:	6832881	mN	

Comments: Float sample of subcroppy oxidized rock in floor of historical trench (Tc in MJK's field notes). Colour varies from orange to reddish-purple. Punky texture, lots of small cavities (nearly vesicular). Oxidization appears banded. Unsure of lithology, no mineralization observed.

Sample Number:	E814408	Date Collected:	02/08/2022	UTM:	611364	mE	Nad83, Zone 8
Elevation:	1777 m	Sampler:	Unknown Person	UTM:	6832982	mN	

Comments: Float sample of oxidized quartz in floor of historical trench (Td in MJK's field notes). Possible sphalerite.

Sample Number:	E814409	Date Collected:	02/08/2022	UTM:	611641	mE	Nad83, Zone 8
Elevation:	1699 m	Sampler:	Unknown Person	UTM:	6833482	mN	

Comments: Float sample of oxidized rock in historical trench (Tg in MJK's field notes) at Nose showing. Weathered rusty-orange and purple-black. Punky texture. Clasts and crystals of varying size, most fine-grained. Breccia?

Sample Number:	E814410	Date Collected:	03/08/2022	UTM:	614582	mE	Nad83, Zone 8
Elevation:	1940 m	Sampler:	Unknown Person	UTM:	6828204	mN	

Comments: Outcrop grab sample of steeply dipping quartz vein roughly 20cm wide trending NE hosted in dolomite (station 22GR188). Vein displays brecciation throughout with regions of punky bright orange oxidization (limenite?). Patches of emerald-green staining (malachite?).

Sample Number:	E814411	Date Collected:	03/08/2022	UTM:	614605	mE	Nad83, Zone 8
Elevation:	1947 m	Sampler:	Unknown Person	UTM:	6828193	mN	

Comments: Float grab sample of massive galena found in ridgeline notch. Metallic purple-grey thoughout, very dense, with patches of blue-green to pale green mineral (malachite?). Some pieces coated in soft spongy/punky bright orange mineral (limenite?). Station 22GR189.

Rock Sample Descriptions Property: Groundhog

Sample Number:	E814412	Date Collected:	03/08/2022	UTM:	614606	mE	Nad83, Zone 8
Elevation:	1948 m	Sampler:	Unknown Person	UTM:	6828193	mN	

Comments: Grab sample of subcrop in ridge notch near Rob1 showing. Hand pit 60cm depth. Bright rusty-orange oxidized clasts with spongy texture, many containing massive galena. Station 22GR189.

Sample Number:	E814413	Date Collected:	03/08/2022	UTM:	614824	mE	Nad83, Zone 8
Elevation:	2022 m	Sampler:	Unknown Person	UTM:	6828125	mN	

Comments: Outcrop grab sample of quartz veins hosted in fracture dolostone at Rob1 showing. Localization orange oxidation in parts of vein.

Sample Number:	E814414	Date Collected:	03/08/2022	UTM:	614797	mE	Nad83, Zone 8
Elevation:	2021 m	Sampler:	Unknown Person	UTM:	6828111	mN	

Comments: Resampling of H248942, grab sample of float train at Rob1 showing. Orange to red oxidation, some orange clay limenite. Galena in pods and along quartz veins. Tiger-striped texture in dolostone(?) host rock. Minor malachite and disseminated chalcopyrite +/- tetrahedrite.

Sample Number:	E814451	Date Collected:	02/08/2022	UTM:	613172	mE	Nad83, Zone 8
Elevation:	1869 m	Sampler:	Unknown Person	UTM:	6830495	mN	

Comments: 2m of 4m chip 135 degree north across 4m fault zone trending 135 degrees N. Silicified fault breccia, medium grey to white in texture, punky texture.

Sample Number:	E814452	Date Collected:	02/08/2022	UTM:	613171	mE	Nad83, Zone 8
Elevation:	1868 m	Sampler:	Unknown Person	UTM:	6830495	mN	

Comments: 2m of 4m chip 135 degree north across 4m fault zone trending 135 degrees N. Silicified fault breccia, medium grey to white in texture, punky texture.

Sample Number:	E814453	Date Collected:	02/08/2022	UTM:	613142	mE	Nad83, Zone 8
Elevation:	1860 m	Sampler:	Unknown Person	UTM:	6830479	mN	

Comments: Quartz infill breccia with soft dark grey clasts (~5%, 1 cm diameter). Yellow, orange to red oxidation some orange clays in infill.

Rock Sample Descriptions Property: Groundhog

Sample Number:	E814454	Date Collected:	02/08/2022	UTM:	613156 mE	Nad83, Zone 8
Elevation:	1864 m	Sampler:	Unknown Person	UTM:	6830481 mN	

Comments: Quartz fault with orange to red oxidation staining

Sample Number:	E814455	Date Collected:	02/08/2022	UTM:	613156 mE	Nad83, Zone 8
Elevation:	1864 m	Sampler:	Unknown Person	UTM:	6830481 mN	

Comments: Quartz veins in assive tetrahedrite clasts (?) up to 2cm by 5cm oxidizing to malachite. Float sample

Sample Number:	E814456	Date Collected:	02/08/2022	UTM:	613272 mE	Nad83, Zone 8
Elevation:	1804 m	Sampler:	Unknown Person	UTM:	6830543 mN	

Comments: White quartz vein in dolostone outcrop. Galena and tetrahedrite mineralization in veins as pockets and along fractures.

Sample Number:	E814457	Date Collected:	02/08/2022	UTM:	613173 mE	Nad83, Zone 8
Elevation:	1867 m	Sampler:	Unknown Person	UTM:	6830501 mN	

Comments: Pink (hemitite?) dolomite infill breccia with dark grey silicified clasts. Float sample found in trench

APPENDIX V

CERTIFICATES OF ANALYSIS

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

CERTIFICATE WH22221968

Project: Groundhog

This report is for 488 samples of Soil submitted to our lab in Whitehorse, YT, Canada on 5-AUG-2022.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	MATT DUMALA SCOTT NEWMAN	STEVE ISRAEL LIZ SMITH

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-ICP41	35 Element Aqua Regia ICP-AES	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, Director, North Vancouver Operations

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CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY27571		0.40	0.001	0.2	0.27	6	<10	40	<0.5	<2	0.75	<0.5	3	4	8	1.32
YY27572		0.41	0.002	0.4	0.20	25	<10	30	<0.5	<2	1.66	<0.5	5	6	35	1.41
YY27573		0.33	0.005	1.0	0.22	26	<10	70	<0.5	<2	13.1	0.8	7	5	19	3.78
YY27574		0.24	0.001	0.2	0.75	13	<10	80	0.5	<2	2.74	0.7	6	12	19	2.44
YY27575		0.35	0.001	<0.2	0.36	5	<10	40	<0.5	<2	0.27	<0.5	3	7	7	1.13
YY27576		0.21	<0.001	<0.2	0.70	3	<10	50	<0.5	<2	0.32	<0.5	2	4	8	0.72
YY27577		0.35	0.006	0.4	0.79	32	<10	140	0.6	<2	4.50	0.5	9	16	21	3.94
YY27578		0.46	0.002	0.4	0.60	15	<10	80	0.5	<2	8.5	0.5	6	13	13	2.62
YY27579		0.39	0.003	0.6	0.50	30	<10	120	<0.5	<2	4.69	<0.5	12	13	30	3.21
YY27580		0.34	0.003	0.2	0.35	25	<10	50	<0.5	<2	2.60	<0.5	8	8	16	2.17
YY27581		0.27	0.001	0.4	0.65	17	<10	80	0.5	<2	0.71	1.3	8	16	13	2.40
YY27582		0.43	0.002	0.3	0.57	14	<10	60	<0.5	<2	2.33	<0.5	7	14	13	2.14
YY27583		0.33	0.003	0.4	0.31	12	<10	30	<0.5	<2	5.17	<0.5	4	8	7	1.42
YY27584		0.21	0.001	<0.2	0.81	15	<10	150	0.6	<2	2.41	1.0	7	11	41	4.62
YY27585		0.23	0.003	0.5	1.17	32	<10	110	0.5	<2	1.33	1.7	10	20	39	4.90
YY27586		0.34	0.003	0.5	1.18	36	<10	180	0.6	<2	1.59	2.2	11	19	24	6.18
YY27587		0.24	0.003	0.4	0.64	19	<10	130	<0.5	<2	3.97	2.5	7	9	24	3.46
YY27588		0.30	0.004	0.8	0.62	28	<10	110	<0.5	<2	5.05	1.1	8	13	25	4.36
YY27589		0.28	0.002	0.3	0.35	62	<10	110	<0.5	<2	2.89	<0.5	16	8	31	4.38
YY27590		0.39	0.005	0.5	0.56	17	<10	90	<0.5	<2	6.00	0.9	8	15	26	4.18
YY27591		0.33	0.006	0.4	0.73	13	<10	90	<0.5	<2	4.41	1.4	7	22	18	3.14
YY27592		0.23	0.003	0.4	0.62	15	<10	190	<0.5	<2	8.3	2.8	6	10	20	8.02
YY27593		0.59	0.005	0.9	0.22	64	<10	110	<0.5	<2	7.9	1.0	8	5	30	3.96
YY27594		0.38	0.004	1.0	0.46	31	<10	120	<0.5	<2	7.29	2.8	9	7	31	4.59
YY27595		0.28	0.004	0.9	0.17	26	<10	60	<0.5	<2	13.1	0.5	7	5	16	3.51
YY27596		0.55	0.002	0.3	0.39	15	<10	80	<0.5	<2	8.5	<0.5	6	8	11	2.36
YY27597		0.25	0.004	0.9	0.53	20	<10	90	0.5	<2	4.44	0.6	9	6	16	3.03
YY27598		0.31	0.002	0.5	0.49	15	<10	70	0.5	<2	5.76	<0.5	7	7	15	2.67
YY27599		0.36	0.006	1.2	0.41	30	<10	110	<0.5	<2	12.1	1.0	7	8	17	4.73
YY27600		0.30	0.005	1.5	0.45	28	<10	70	0.5	<2	9.8	0.7	7	10	23	4.31
YY27601		0.52	0.009	1.2	0.20	41	<10	110	<0.5	<2	11.6	<0.5	10	4	14	4.33
YY27602		0.41	0.013	4.0	0.30	55	<10	110	<0.5	<2	12.6	15.9	5	5	65	5.05
YY27603		0.25	0.005	0.7	0.63	29	<10	140	<0.5	<2	3.49	0.8	7	6	19	4.25
YY27604		0.20	0.006	0.9	0.70	32	<10	120	<0.5	<2	7.9	<0.5	9	8	25	6.30
YY27605		0.34	0.003	0.6	0.36	22	<10	110	<0.5	<2	12.5	0.5	9	7	18	4.46
YY27606		0.50	0.007	0.7	0.29	23	<10	70	<0.5	<2	12.2	<0.5	7	9	11	3.10
YY27607		0.41	0.002	<0.2	0.23	8	<10	100	<0.5	<2	16.5	<0.5	3	4	7	3.58
YY27608		0.33	0.005	0.3	0.55	17	<10	110	<0.5	<2	10.5	0.6	5	13	13	3.71
YY27609		0.27	0.005	0.4	0.55	15	<10	120	<0.5	<2	8.0	1.0	6	13	16	3.22
YY27610		0.30	0.003	0.3	0.64	15	<10	100	<0.5	<2	7.5	1.6	8	16	22	3.53

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27571		<10	<1	0.02	10	<10	0.28	208	3	0.01	16	370	13	0.02	7	1
YY27572		<10	<1	0.05	20	<10	0.47	147	3	<0.01	53	3620	24	0.01	18	2
YY27573		<10	<1	0.02	10	<10	7.29	1275	4	0.01	28	600	75	0.02	7	1
YY27574		<10	<1	0.03	10	<10	1.48	710	3	0.02	18	560	23	0.04	4	1
YY27575		<10	<1	0.02	10	<10	0.12	192	1	0.01	9	370	13	0.03	4	1
YY27576		<10	<1	0.02	<10	<10	0.13	174	<1	0.03	4	420	10	0.03	2	<1
YY27577		<10	<1	0.04	20	10	2.57	1515	3	0.01	28	1200	27	0.08	6	1
YY27578		<10	<1	0.02	10	10	5.07	819	3	0.01	23	690	22	0.02	4	1
YY27579		<10	<1	0.05	20	<10	2.72	638	6	0.01	43	920	61	0.03	8	3
YY27580		<10	<1	0.02	20	<10	1.45	300	6	<0.01	31	560	25	0.01	3	2
YY27581		<10	<1	0.03	10	<10	0.39	478	4	<0.01	31	520	43	0.03	6	2
YY27582		<10	<1	0.03	10	10	1.46	322	3	0.01	26	710	28	0.02	5	2
YY27583		<10	<1	0.03	10	<10	2.87	232	3	<0.01	17	620	18	0.02	8	1
YY27584		<10	<1	0.02	20	<10	1.09	1680	4	<0.01	19	730	37	0.07	3	3
YY27585		<10	<1	0.03	20	10	0.86	1345	3	<0.01	24	590	122	0.04	3	3
YY27586		<10	<1	0.03	20	10	0.78	2120	3	<0.01	25	760	72	0.05	3	3
YY27587		<10	<1	0.03	10	<10	1.95	1575	1	0.01	16	930	71	0.08	2	1
YY27588		<10	<1	0.03	10	10	2.70	1685	2	0.01	22	830	104	0.06	4	1
YY27589		<10	<1	0.03	10	<10	1.00	1040	2	<0.01	29	800	41	0.08	2	2
YY27590		<10	<1	0.03	10	10	3.49	1105	2	0.01	25	760	26	0.04	2	2
YY27591		<10	<1	0.03	20	10	2.61	811	1	0.01	24	800	17	0.03	2	2
YY27592		<10	<1	0.02	10	<10	4.29	2690	2	<0.01	14	1260	24	0.09	2	1
YY27593		<10	<1	0.03	10	<10	4.42	1025	8	<0.01	42	670	34	0.04	6	2
YY27594		<10	<1	0.03	10	<10	4.21	1625	4	0.01	28	700	71	0.03	6	1
YY27595		<10	<1	0.01	10	<10	7.24	1095	4	0.01	23	500	62	0.02	6	1
YY27596		<10	<1	0.03	10	<10	4.75	888	2	0.01	17	530	42	0.05	2	1
YY27597		<10	<1	0.04	10	<10	2.48	978	2	0.01	22	640	90	0.06	4	1
YY27598		<10	<1	0.03	10	<10	3.40	755	1	0.01	21	510	53	0.03	3	1
YY27599		<10	<1	0.02	10	<10	6.97	1835	4	0.01	21	590	177	0.04	5	1
YY27600		<10	<1	0.02	10	<10	5.62	1155	2	0.01	24	480	224	0.04	6	2
YY27601		<10	<1	0.03	10	<10	6.46	1795	2	<0.01	30	330	100	0.03	7	1
YY27602		<10	1	0.02	10	<10	6.86	2200	2	0.01	16	480	978	0.07	14	1
YY27603		<10	<1	0.03	10	<10	1.71	2000	2	0.03	17	870	72	0.06	3	1
YY27604		<10	1	0.03	10	<10	4.35	2180	5	0.01	29	670	43	0.04	5	2
YY27605		<10	<1	0.02	10	<10	6.98	1365	3	0.01	31	390	23	0.04	4	1
YY27606		<10	<1	0.02	10	<10	6.69	960	2	0.01	25	350	28	0.02	5	1
YY27607		<10	<1	0.01	<10	<10	9.27	1500	1	0.01	6	430	14	0.04	2	<1
YY27608		<10	<1	0.02	10	10	5.83	1360	1	0.01	16	850	23	0.06	2	1
YY27609		<10	<1	0.03	10	10	4.20	1025	1	0.01	17	940	32	0.07	3	1
YY27610		<10	<1	0.03	10	10	4.16	1050	1	0.01	20	900	29	0.03	3	2

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method Analyte Units LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY27571		10	<20	0.01	<10	<10	8	<10	31
YY27572		44	<20	<0.01	<10	<10	16	<10	250
YY27573		76	<20	0.01	<10	<10	13	<10	138
YY27574		23	<20	0.02	<10	<10	29	<10	118
YY27575		7	<20	0.01	<10	<10	11	<10	26
YY27576		9	<20	0.02	<10	<10	9	<10	25
YY27577		44	<20	0.02	<10	<10	35	<10	76
YY27578		47	<20	0.02	<10	<10	25	<10	92
YY27579		73	<20	0.03	<10	<10	24	<10	116
YY27580		41	<20	0.01	<10	<10	14	<10	106
YY27581		12	<20	0.01	<10	<10	21	<10	166
YY27582		20	<20	0.02	<10	<10	19	<10	73
YY27583		34	<20	0.01	<10	<10	8	<10	44
YY27584		15	<20	0.01	<10	<10	19	<10	133
YY27585		19	<20	0.03	<10	<10	32	<10	297
YY27586		25	<20	0.02	<10	<10	28	<10	322
YY27587		31	<20	0.01	<10	<10	16	<10	336
YY27588		38	<20	0.02	<10	<10	19	<10	230
YY27589		43	<20	<0.01	<10	<10	9	<10	106
YY27590		41	<20	0.03	<10	<10	24	<10	190
YY27591		34	<20	0.04	<10	<10	32	<10	388
YY27592		51	<20	0.01	<10	<10	21	<10	523
YY27593		70	<20	0.01	<10	<10	15	<10	231
YY27594		59	<20	0.01	<10	<10	17	<10	659
YY27595		72	<20	0.01	<10	<10	12	<10	114
YY27596		45	<20	0.01	<10	<10	12	<10	82
YY27597		26	<20	0.01	<10	<10	10	<10	163
YY27598		34	<20	0.01	<10	<10	12	<10	109
YY27599		69	<20	0.01	<10	<10	14	<10	227
YY27600		53	<20	0.02	<10	<10	16	<10	167
YY27601		72	<20	<0.01	<10	<10	7	<10	101
YY27602		97	<20	0.01	<10	<10	16	<10	2560
YY27603		28	<20	0.02	<10	<10	14	<10	142
YY27604		39	<20	0.02	<10	<10	17	<10	101
YY27605		64	<20	0.01	<10	<10	14	<10	103
YY27606		65	<20	0.02	<10	<10	16	<10	60
YY27607		77	<20	0.01	<10	<10	8	<10	57
YY27608		61	<20	0.02	<10	<10	21	<10	105
YY27609		54	<20	0.02	<10	<10	19	<10	169
YY27610		46	<20	0.03	<10	<10	23	<10	301

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY27611		0.26	<0.001	0.6	0.62	14	<10	130	<0.5	<2	7.1	2.4	7	15	17	3.26
YY27612		0.33	0.003	0.5	0.67	15	<10	100	<0.5	<2	5.14	1.2	7	16	17	2.62
YY27613		0.29	0.002	0.9	0.68	16	<10	90	<0.5	<2	6.21	3.1	8	16	20	3.49
YY27614		0.30	0.001	0.5	0.43	11	<10	80	0.5	<2	6.89	0.8	9	11	18	2.97
YY27615		0.28	0.005	0.3	0.87	13	<10	130	<0.5	<2	5.04	0.5	8	20	19	3.17
YY27616		0.31	0.005	1.7	0.78	35	<10	140	<0.5	<2	7.04	0.5	8	18	18	4.51
YY27617		0.32	0.006	1.4	0.36	34	<10	170	<0.5	<2	10.2	<0.5	15	8	24	6.15
YY27618		0.31	0.002	0.6	0.24	22	<10	70	<0.5	<2	10.4	<0.5	8	7	19	3.35
YY27619		0.34	0.003	0.6	0.25	25	<10	80	<0.5	<2	8.6	<0.5	9	8	16	3.42
YY27620		0.33	0.006	0.6	0.56	19	<10	150	<0.5	<2	10.1	0.6	7	15	15	3.32
YY27621		0.34	0.005	0.9	0.20	19	<10	120	<0.5	<2	17.5	0.5	5	4	11	3.74
YY27622		0.41	0.001	0.6	0.18	18	<10	70	<0.5	<2	13.0	<0.5	6	6	11	3.52
YY27623		0.29	0.002	1.0	0.32	35	<10	120	<0.5	<2	12.8	0.7	9	8	22	5.54
YY27624		0.41	0.004	1.0	0.29	25	<10	120	<0.5	<2	14.0	1.0	10	6	19	4.66
YY27625		0.33	0.014	5.1	0.38	52	<10	80	<0.5	<2	11.6	3.2	17	7	83	4.50
YY27626		0.43	0.005	2.7	0.25	70	<10	70	<0.5	<2	13.9	1.8	14	6	18	5.90
YY27627		0.31	0.001	<0.2	0.33	19	<10	90	<0.5	<2	0.11	<0.5	8	7	36	2.76
YY27628		0.30	0.004	0.7	0.49	20	<10	160	<0.5	<2	0.28	0.7	9	10	41	2.85
YY27629		0.31	0.002	0.7	0.76	33	<10	110	0.5	<2	0.32	0.8	10	18	15	3.48
YY27630		0.23	0.001	0.4	0.59	25	<10	130	<0.5	<2	2.11	1.3	6	10	17	2.32
YY27631		0.26	0.004	2.5	0.56	60	<10	100	0.5	<2	1.97	2.2	15	10	49	4.00
YY27632		0.25	0.001	0.4	0.97	11	<10	110	<0.5	<2	0.52	0.5	3	11	8	2.75
YY27633		0.26	0.002	0.2	0.24	27	<10	130	<0.5	<2	1.75	<0.5	15	3	7	2.46
YY27634		0.35	0.002	0.5	0.32	23	<10	60	0.5	<2	12.4	0.5	8	7	15	2.21
YY27635		0.30	0.003	1.1	0.74	44	<10	100	0.5	<2	3.02	0.8	12	13	24	3.92
YY27636		0.35	0.002	1.5	0.72	34	<10	100	0.5	<2	4.33	0.7	9	13	23	3.95
YY27637		0.25	0.003	0.7	0.47	29	<10	100	<0.5	<2	5.72	0.6	13	10	38	5.53
YY27638		0.31	0.003	0.5	0.50	27	<10	130	<0.5	<2	1.78	<0.5	10	11	39	3.33
YY27639		0.33	0.004	0.6	0.65	28	<10	170	<0.5	<2	0.77	<0.5	10	12	36	4.30
YY27640		0.14	0.002	0.6	0.89	31	<10	150	<0.5	<2	1.04	0.5	9	12	29	3.81
YY27641		0.26	0.002	0.4	0.64	20	<10	120	0.6	<2	1.07	0.8	12	13	21	5.97
YY27642		0.29	0.017	0.7	0.63	54	<10	150	0.5	<2	1.70	0.7	15	12	34	6.83
YY27643		0.33	0.004	0.8	0.42	52	<10	130	<0.5	<2	0.17	<0.5	10	9	69	2.96
YY27644		0.32	0.004	0.8	0.92	32	<10	110	0.5	<2	0.47	1.0	12	17	41	3.66
YY27645		0.31	0.004	0.4	0.75	22	<10	220	<0.5	<2	0.15	<0.5	8	12	43	3.09
YY27646		0.25	0.003	0.5	0.73	12	<10	110	<0.5	<2	0.30	0.5	7	9	31	2.16
YY27647		0.32	0.001	<0.2	1.49	12	<10	70	<0.5	<2	0.12	<0.5	8	21	14	3.28
YY27648		0.36	0.004	0.5	1.07	33	<10	70	0.5	<2	0.40	0.7	14	16	31	3.83
YY27649		0.41	<0.001	0.5	0.85	17	<10	180	0.5	<2	0.27	1.1	15	40	56	3.61
YY27650		0.42	0.007	0.9	0.49	19	<10	100	<0.5	<2	0.49	0.7	10	10	45	2.74

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CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27611		<10	<1	0.03	10	10	4.01	940	2	<0.01	20	710	59	0.03	3	2
YY27612		<10	<1	0.04	10	10	3.07	666	2	0.01	22	670	89	0.02	3	2
YY27613		<10	<1	0.03	10	10	3.62	1010	2	0.01	22	540	238	0.02	3	2
YY27614		<10	<1	0.03	10	<10	3.97	797	1	<0.01	22	520	149	0.05	2	1
YY27615		<10	<1	0.05	10	10	2.25	909	2	0.01	25	620	26	0.06	<2	2
YY27616		<10	<1	0.03	10	10	4.16	1460	4	0.01	22	640	155	0.05	4	1
YY27617		<10	<1	0.04	10	<10	5.79	981	5	0.01	33	900	55	0.06	10	2
YY27618		<10	<1	0.05	10	<10	5.80	728	2	0.01	25	220	33	0.09	5	1
YY27619		<10	<1	0.06	10	<10	4.80	717	2	0.01	23	300	49	0.12	6	1
YY27620		<10	<1	0.04	10	10	5.64	1170	2	0.01	22	550	37	0.05	3	1
YY27621		<10	<1	0.02	10	<10	9.85	1645	2	0.02	16	350	45	0.04	5	1
YY27622		<10	<1	0.02	10	<10	7.22	1080	2	0.01	24	260	39	0.01	8	1
YY27623		<10	<1	0.02	10	<10	7.18	2140	7	0.01	38	620	44	0.03	9	2
YY27624		<10	<1	0.03	10	<10	7.69	1815	5	0.01	44	830	51	0.06	8	1
YY27625		<10	<1	0.02	10	<10	6.43	1205	14	0.01	85	880	295	0.03	32	2
YY27626		<10	<1	0.02	10	<10	7.66	1860	4	0.01	66	630	291	0.04	18	2
YY27627		<10	<1	0.03	20	<10	0.07	94	6	<0.01	35	1030	35	0.02	4	1
YY27628		<10	<1	0.04	30	<10	0.19	303	4	<0.01	40	1210	59	0.02	5	1
YY27629		<10	<1	0.03	20	<10	0.22	411	3	<0.01	29	850	70	0.04	3	3
YY27630		<10	<1	0.03	10	<10	0.88	873	2	0.01	18	930	86	0.07	3	1
YY27631		<10	<1	0.02	20	<10	1.04	775	4	<0.01	63	1040	298	0.03	8	2
YY27632		<10	<1	0.02	10	<10	0.23	341	1	0.01	12	900	32	0.05	2	1
YY27633		<10	<1	0.05	20	<10	0.80	374	2	<0.01	24	1580	18	0.01	4	3
YY27634		<10	<1	0.03	10	<10	7.23	989	2	0.01	24	610	71	0.02	3	1
YY27635		<10	<1	0.04	20	10	1.70	1150	3	0.01	34	820	146	0.04	5	2
YY27636		<10	<1	0.03	20	<10	2.52	952	2	0.01	32	900	256	0.06	4	2
YY27637		<10	<1	0.03	20	<10	3.21	1380	8	0.01	50	800	48	0.04	6	2
YY27638		<10	<1	0.05	20	<10	0.99	529	11	<0.01	49	1010	31	0.03	6	2
YY27639		<10	<1	0.04	20	<10	0.36	632	9	0.01	46	850	40	0.04	7	2
YY27640		<10	<1	0.03	10	<10	0.36	892	4	0.02	31	1070	178	0.08	5	1
YY27641		<10	<1	0.03	20	<10	0.41	1760	3	0.01	36	640	44	0.05	7	2
YY27642		<10	<1	0.03	20	<10	0.91	1945	7	0.01	61	780	68	0.07	7	2
YY27643		<10	<1	0.05	30	<10	0.13	284	24	<0.01	60	1070	43	0.07	13	2
YY27644		<10	<1	0.06	30	10	0.43	576	7	0.01	47	1290	46	0.03	8	3
YY27645		<10	<1	0.04	40	10	0.21	217	4	<0.01	32	1070	26	0.01	4	1
YY27646		<10	<1	0.03	10	<10	0.18	205	2	0.02	29	1270	16	0.05	2	1
YY27647		<10	<1	0.04	20	20	0.70	287	2	<0.01	20	770	15	0.02	<2	2
YY27648		<10	<1	0.05	30	10	0.58	608	3	<0.01	36	960	45	0.02	4	3
YY27649		<10	<1	0.06	40	10	0.46	372	4	<0.01	72	1430	21	0.01	5	4
YY27650		<10	<1	0.04	20	<10	0.27	267	4	0.01	45	1000	20	0.02	4	1

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	1	20	0.01	10	10	1	10	2
YY27611		43	<20	0.02	<10	<10	22	<10	345
YY27612		34	<20	0.03	<10	<10	23	<10	251
YY27613		37	<20	0.03	<10	<10	23	<10	462
YY27614		44	<20	0.01	<10	<10	13	<10	179
YY27615		37	<20	0.03	<10	<10	29	<10	73
YY27616		43	<20	0.03	<10	<10	28	<10	99
YY27617		50	<20	0.01	<10	<10	16	<10	50
YY27618		64	<20	0.01	<10	<10	9	<10	38
YY27619		53	<20	0.01	<10	<10	9	<10	48
YY27620		70	<20	0.03	<10	<10	25	<10	103
YY27621		110	<20	0.01	<10	<10	11	<10	106
YY27622		60	<20	0.01	<10	<10	13	<10	105
YY27623		75	<20	0.01	<10	<10	22	<10	86
YY27624		110	<20	0.01	<10	<10	14	<10	140
YY27625		86	<20	0.01	<10	<10	18	<10	649
YY27626		74	<20	<0.01	<10	<10	16	<10	399
YY27627		23	<20	<0.01	<10	<10	16	<10	164
YY27628		29	<20	<0.01	<10	<10	18	<10	256
YY27629		9	<20	0.02	<10	<10	24	<10	195
YY27630		26	<20	0.01	<10	<10	17	<10	134
YY27631		23	<20	<0.01	<10	<10	17	<10	331
YY27632		12	<20	0.01	<10	<10	18	<10	163
YY27633		17	<20	<0.01	<10	<10	7	<10	31
YY27634		67	<20	<0.01	<10	<10	13	<10	76
YY27635		23	<20	0.01	<10	<10	25	<10	135
YY27636		30	<20	0.01	<10	<10	26	<10	154
YY27637		41	<20	0.01	<10	<10	20	<10	87
YY27638		39	<20	0.01	<10	<10	25	<10	88
YY27639		26	<20	0.01	<10	<10	30	<10	91
YY27640		21	<20	0.02	<10	<10	25	<10	110
YY27641		15	<20	0.02	<10	<10	33	<10	96
YY27642		26	<20	0.01	<10	<10	24	<10	145
YY27643		83	<20	<0.01	<10	<10	25	<10	59
YY27644		23	<20	0.02	<10	<10	34	<10	201
YY27645		22	<20	<0.01	<10	<10	22	<10	187
YY27646		22	<20	0.01	<10	<10	18	<10	126
YY27647		10	<20	0.01	<10	<10	22	<10	79
YY27648		19	<20	0.01	<10	<10	21	<10	137
YY27649		29	<20	0.03	<10	<10	36	<10	267
YY27650		21	<20	0.01	<10	<10	19	<10	200

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
YY27651		0.43	0.003	0.7	0.55	26	<10	90	<0.5	<2	0.30	1.5	17	7	74	4.74
YY27652		0.30	0.002	0.5	0.66	6	<10	80	<0.5	<2	0.08	0.5	6	7	21	1.70
YY27653		0.46	0.003	0.9	0.63	16	<10	50	<0.5	<2	0.11	1.0	15	9	42	3.91
YY27654		0.32	0.002	0.2	0.50	13	<10	30	<0.5	<2	0.05	<0.5	4	5	26	1.75
YY27655		0.51	0.005	0.8	0.35	81	<10	90	<0.5	<2	0.02	<0.5	14	9	55	2.51
YY27656		0.28	0.004	0.7	0.41	36	<10	80	<0.5	<2	4.44	0.8	13	9	38	6.76
YY27657		0.35	0.003	0.6	0.68	26	<10	120	<0.5	<2	1.46	<0.5	20	15	74	3.56
YY27658		0.29	0.001	0.5	0.99	35	<10	140	0.6	<2	0.91	<0.5	13	16	19	5.97
YY27659		0.26	0.001	<0.2	0.98	25	<10	160	0.5	<2	0.46	<0.5	8	15	19	3.86
YY27660		0.27	0.001	0.3	0.12	11	<10	30	<0.5	<2	6.8	<0.5	4	4	6	1.37
YY27661		0.28	0.003	0.3	0.30	17	<10	70	<0.5	<2	10.4	<0.5	5	6	12	1.91
YY27662		0.23	0.002	0.2	0.37	11	<10	70	<0.5	<2	9.0	<0.5	4	5	10	1.62
YY27663		0.26	0.003	0.7	0.30	52	<10	80	<0.5	2	6.56	1.0	8	7	31	3.15
YY27664		0.21	0.005	0.5	0.62	26	<10	100	0.5	<2	3.67	1.5	8	11	28	3.66
YY27665		0.26	0.002	0.4	0.27	24	<10	50	<0.5	<2	3.73	0.5	6	6	21	2.94
YY27666		0.30	0.003	1.0	0.24	30	<10	40	<0.5	<2	1.54	0.9	9	6	56	2.45
YY27667		0.29	0.001	0.4	0.29	27	<10	50	<0.5	<2	2.99	0.5	22	9	39	3.21
YY27668		0.28	0.003	<0.2	0.69	11	<10	80	<0.5	<2	1.08	0.5	8	23	16	2.38
YY27669		0.30	0.002	0.2	0.14	6	<10	30	<0.5	<2	5.41	<0.5	3	4	5	0.99
YY27670		0.21	0.003	0.3	0.63	11	<10	80	<0.5	<2	0.66	0.8	6	14	8	2.24
YY27671		0.24	0.003	0.2	0.45	31	<10	80	<0.5	<2	4.19	<0.5	16	10	11	3.17
YY27672		0.18	0.002	0.3	0.66	16	<10	80	<0.5	<2	1.15	0.6	6	12	12	2.93
YY27673		0.20	0.001	0.2	0.35	9	<10	40	<0.5	<2	0.77	<0.5	4	7	9	1.44
YY27674		0.25	0.005	0.4	0.73	16	<10	90	<0.5	<2	3.78	1.1	7	19	18	2.53
YY27675		0.22	0.003	0.5	0.94	22	<10	100	<0.5	<2	1.18	1.2	8	16	17	3.48
YY27676		0.23	0.003	0.3	0.85	12	<10	120	<0.5	<2	4.47	1.4	7	15	18	4.03
YY27677		0.21	0.002	0.3	0.63	15	<10	90	<0.5	<2	8.2	0.5	6	14	14	4.34
YY27678		0.31	0.005	0.5	0.42	17	<10	100	<0.5	<2	9.9	0.6	6	11	13	3.81
YY27679		0.29	0.002	0.9	0.18	31	<10	60	<0.5	<2	5.90	0.8	9	5	38	2.91
YY27680		0.19	0.005	0.3	0.33	13	<10	60	<0.5	<2	8.8	0.5	5	10	13	2.87
YY27681		0.22	0.003	0.8	0.34	17	<10	100	<0.5	2	9.6	0.7	8	7	21	4.37
YY27682		0.20	0.005	1.3	0.60	26	<10	110	<0.5	<2	6.9	5.1	10	7	55	5.25
YY27683		0.20	0.003	0.9	0.34	24	<10	70	<0.5	2	8.0	0.6	8	7	19	4.54
YY27684		0.22	0.005	1.0	0.20	28	<10	70	<0.5	<2	11.6	0.6	7	5	15	3.49
YY27685		0.26	0.007	1.1	0.20	19	<10	60	<0.5	<2	12.2	0.7	7	5	18	3.22
YY27686		0.31	0.002	0.5	0.17	10	<10	40	<0.5	<2	11.9	<0.5	5	8	10	1.93
YY27687		0.27	0.003	0.6	0.51	16	<10	70	0.6	<2	4.91	0.5	8	8	17	3.08
YY27688		0.28	0.003	0.6	0.19	13	<10	70	<0.5	<2	14.0	0.6	4	7	12	3.88
YY27689		0.30	0.018	2.5	0.17	90	<10	130	<0.5	<2	15.3	4.0	5	3	29	4.74
YY27690		0.25	0.009	4.0	0.35	47	<10	140	<0.5	<2	11.9	1.6	9	6	23	4.26

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27651		<10	<1	0.04	30	10	0.17	266	7	<0.01	71	2160	21	0.04	5	2
YY27652		<10	<1	0.04	10	<10	0.13	222	2	0.02	20	850	15	0.03	<2	1
YY27653		<10	<1	0.04	20	10	0.20	535	4	0.01	50	1270	34	0.02	3	1
YY27654		<10	<1	0.03	10	<10	0.06	88	3	0.02	23	800	10	0.03	2	<1
YY27655		<10	<1	0.05	50	<10	0.02	56	20	0.01	71	880	53	0.05	19	1
YY27656		<10	<1	0.02	10	<10	2.09	1605	18	0.02	86	1050	52	0.08	9	2
YY27657		<10	<1	0.04	20	10	0.72	658	6	0.01	50	1090	51	0.06	5	4
YY27658		<10	<1	0.03	20	10	0.50	1815	4	0.01	35	870	127	0.06	3	3
YY27659		<10	<1	0.03	20	10	0.36	987	5	0.01	28	1150	87	0.06	<2	2
YY27660		<10	<1	0.02	10	<10	3.91	337	1	0.02	20	560	32	0.02	<2	2
YY27661		<10	<1	0.02	10	<10	6.06	889	3	0.02	22	380	20	0.02	3	1
YY27662		<10	<1	0.03	10	<10	5.09	785	1	0.03	14	420	13	0.04	2	1
YY27663		<10	<1	0.02	10	<10	3.84	799	4	0.02	32	660	25	0.04	4	1
YY27664		<10	<1	0.02	10	<10	2.00	1215	3	0.02	27	940	33	0.06	3	1
YY27665		<10	<1	0.02	10	<10	2.05	609	3	0.02	23	550	25	0.03	3	1
YY27666		<10	<1	0.02	20	<10	0.78	331	20	0.02	55	560	174	0.03	5	2
YY27667		<10	<1	0.04	50	<10	0.25	470	11	0.02	56	1080	39	0.04	3	3
YY27668		<10	<1	0.03	10	10	0.73	460	2	0.02	31	870	21	0.02	<2	3
YY27669		<10	<1	0.02	10	<10	3.08	250	1	0.02	15	400	11	0.02	4	1
YY27670		<10	<1	0.03	10	<10	0.31	665	1	0.01	16	480	31	0.04	2	2
YY27671		<10	<1	0.03	10	<10	2.27	676	2	0.02	38	920	30	0.08	2	3
YY27672		<10	<1	0.03	10	<10	0.59	864	2	0.03	18	560	38	0.04	2	2
YY27673		<10	<1	0.02	10	<10	0.35	213	1	0.02	13	290	18	0.03	2	1
YY27674		<10	<1	0.03	10	10	2.36	572	2	0.02	27	740	85	0.03	6	2
YY27675		<10	<1	0.02	10	10	0.69	1015	2	0.02	21	670	51	0.06	2	2
YY27676		<10	<1	0.03	10	10	2.37	1510	1	0.03	17	970	36	0.07	3	1
YY27677		<10	<1	0.02	10	10	4.64	1450	1	0.02	19	640	44	0.04	2	1
YY27678		<10	<1	0.02	10	<10	5.46	1470	2	0.02	20	510	30	0.04	3	1
YY27679		<10	<1	0.02	10	<10	3.27	640	20	0.02	48	630	54	0.03	5	1
YY27680		<10	<1	0.02	10	<10	4.89	824	2	0.02	21	480	22	0.04	2	1
YY27681		<10	<1	0.02	10	<10	5.39	1140	2	0.02	25	450	32	0.03	5	1
YY27682		<10	<1	0.03	10	<10	3.71	1895	4	0.03	26	870	60	0.05	5	1
YY27683		<10	<1	0.02	10	<10	4.45	1020	2	0.02	24	510	100	0.05	6	1
YY27684		<10	<1	0.02	10	<10	6.44	1045	2	0.02	20	350	85	0.05	4	1
YY27685		<10	<1	0.02	10	<10	6.87	829	2	0.02	22	260	87	0.04	4	1
YY27686		<10	<1	0.02	10	<10	6.87	641	1	0.02	18	260	45	0.04	<2	1
YY27687		<10	<1	0.03	10	<10	2.92	954	2	0.02	22	480	71	0.04	2	2
YY27688		<10	<1	0.01	10	<10	7.45	1655	1	0.02	20	340	31	0.05	2	1
YY27689		<10	<1	0.01	10	<10	8.30	3600	2	0.02	17	400	262	0.06	12	1
YY27690		<10	<1	0.02	10	<10	6.48	1570	4	0.02	28	1130	267	0.07	12	1

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Finalized Date: 5-OCT-2022
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Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	1	20	0.01	10	10	1	10	2
YY27651		57	<20	<0.01	<10	<10	22	<10	291
YY27652		10	<20	0.01	<10	<10	15	<10	103
YY27653		19	<20	0.01	<10	<10	26	<10	242
YY27654		11	<20	0.02	<10	<10	19	<10	48
YY27655		61	<20	0.01	<10	<10	39	<10	26
YY27656		30	<20	0.01	<10	<10	27	<10	72
YY27657		25	<20	<0.01	<10	<10	24	<10	80
YY27658		16	<20	0.01	<10	<10	27	<10	120
YY27659		15	<20	0.01	<10	<10	31	<10	165
YY27660		46	<20	<0.01	<10	<10	4	<10	48
YY27661		68	<20	0.01	<10	<10	13	<10	87
YY27662		57	<20	0.01	<10	<10	12	<10	52
YY27663		43	<20	0.01	<10	<10	14	<10	217
YY27664		26	<20	0.01	<10	<10	23	<10	330
YY27665		26	<20	0.01	<10	<10	10	<10	111
YY27666		22	<20	0.01	<10	<10	23	<10	168
YY27667		46	<20	<0.01	<10	<10	16	<10	141
YY27668		24	<20	0.05	<10	<10	32	<10	127
YY27669		30	<20	<0.01	<10	<10	3	<10	50
YY27670		10	<20	0.02	<10	<10	20	<10	109
YY27671		45	<20	0.01	<10	<10	14	<10	59
YY27672		15	<20	0.02	<10	<10	20	<10	96
YY27673		11	<20	0.01	<10	<10	11	<10	38
YY27674		33	<20	0.03	<10	<10	26	<10	200
YY27675		16	<20	0.03	<10	<10	25	<10	187
YY27676		33	<20	0.03	<10	<10	24	<10	220
YY27677		44	<20	0.02	<10	<10	22	<10	121
YY27678		51	<20	0.01	<10	<10	19	<10	111
YY27679		48	<20	0.01	<10	<10	15	<10	217
YY27680		56	<20	0.02	<10	<10	16	<10	101
YY27681		71	<20	0.02	<10	<10	15	<10	158
YY27682		39	<20	0.02	<10	<10	17	<10	1200
YY27683		43	<20	0.01	<10	<10	15	<10	135
YY27684		67	<20	0.01	<10	<10	8	<10	135
YY27685		56	<20	0.01	<10	<10	8	<10	162
YY27686		61	<20	<0.01	<10	<10	7	<10	82
YY27687		28	<20	0.01	<10	<10	14	<10	126
YY27688		88	<20	<0.01	<10	<10	11	<10	108
YY27689		112	<20	0.01	<10	<10	8	<10	654
YY27690		85	<20	0.01	<10	<10	13	<10	328

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
YY27691		0.22	0.010	1.2	0.45	47	<10	140	<0.5	<2	7.1	0.9	13	8	35	5.38
YY27692		0.25	0.006	0.9	0.19	38	<10	100	<0.5	<2	15.3	0.7	7	5	17	5.04
YY27693		0.28	0.004	0.6	0.13	17	<10	80	<0.5	<2	17.1	<0.5	6	5	9	3.52
YY27694		0.30	0.003	0.3	0.21	10	<10	90	<0.5	<2	15.8	<0.5	4	5	9	3.02
YY27695		0.22	0.004	0.5	0.25	11	<10	120	<0.5	<2	14.3	0.6	7	6	10	3.80
YY27696		0.27	0.004	0.2	0.39	12	<10	90	<0.5	<2	11.3	<0.5	5	11	10	2.55
YY27697		0.27	0.003	0.3	0.38	11	<10	90	<0.5	2	11.0	0.7	5	10	14	2.50
YY27698		0.18	0.002	0.3	0.44	8	<10	80	<0.5	<2	3.89	<0.5	8	9	13	2.12
YY27699		0.22	0.008	2.5	0.40	38	<10	120	<0.5	2	11.0	3.0	8	7	27	4.93
YY27700		0.24	0.005	0.7	0.54	12	<10	70	<0.5	<2	6.9	2.9	5	12	27	3.02
YY27701		0.30	0.007	1.8	0.38	24	<10	50	<0.5	<2	5.86	1.5	7	11	20	3.87
YY27702		0.27	0.004	0.5	0.80	15	<10	100	<0.5	<2	5.88	1.2	9	20	22	4.19
YY27703		0.25	0.007	0.3	0.56	12	<10	80	<0.5	<2	9.0	<0.5	6	16	16	3.96
YY27704		0.30	0.003	0.4	0.50	14	<10	90	<0.5	2	5.73	<0.5	9	13	21	4.39
YY27705		0.27	0.003	0.7	0.29	20	<10	130	<0.5	2	14.9	<0.5	8	7	33	5.03
YY27706		0.23	0.009	0.8	0.34	20	<10	110	<0.5	<2	13.4	<0.5	7	8	16	3.63
YY27707		0.34	0.002	0.7	0.18	24	<10	130	<0.5	<2	17.1	<0.5	3	5	11	4.22
YY27708		0.28	0.006	2.6	0.38	37	<10	120	<0.5	<2	13.3	2.2	7	9	19	3.77
YY27709		0.28	0.006	5.2	0.24	41	<10	70	<0.5	2	14.8	6.5	3	6	34	3.45
YY27710		0.27	0.006	2.3	0.14	27	<10	100	<0.5	2	14.0	<0.5	9	5	29	4.20
YY27711		0.27	0.006	0.8	0.27	32	<10	110	<0.5	<2	13.1	0.5	7	7	11	3.87
YY27712		0.24	0.007	0.7	0.89	41	<10	170	<0.5	<2	5.17	0.8	16	18	47	4.55
YY27713		0.25	0.009	2.3	0.89	53	<10	190	<0.5	<2	1.69	1.8	15	15	36	5.41
YY27714		0.34	0.004	0.5	1.15	21	<10	110	<0.5	<2	0.37	<0.5	8	26	20	3.08
YY27715		0.26	0.006	2.0	0.61	23	<10	120	<0.5	2	7.5	0.5	7	14	30	4.29
YY27716		0.28	0.001	0.7	0.26	22	<10	60	<0.5	<2	9.2	0.6	6	8	20	1.67
YY27717		0.23	<0.001	0.5	0.55	12	<10	80	<0.5	<2	6.31	1.1	4	6	16	2.13
YY27718		0.25	<0.001	0.4	0.90	11	<10	80	<0.5	<2	1.06	<0.5	3	9	13	1.57
YY27719		0.28	<0.001	0.5	0.62	10	<10	60	<0.5	<2	0.72	0.5	3	9	15	1.19
YY27720		0.24	<0.001	<0.2	0.33	<2	<10	20	<0.5	<2	0.26	<0.5	1	2	2	0.36
YY27721		0.23	0.002	0.8	0.58	67	<10	130	<0.5	<2	0.52	1.8	11	15	38	3.98
YY27722		0.23	0.001	0.2	0.65	38	<10	80	<0.5	<2	0.23	<0.5	9	10	25	3.23
YY27723		0.22	<0.001	<0.2	0.42	4	<10	50	<0.5	<2	0.14	<0.5	1	3	5	0.57
YY27724		0.23	<0.001	0.6	0.79	39	<10	120	<0.5	<2	2.47	1.7	11	11	21	3.65
YY27725		0.23	<0.001	0.5	0.97	36	<10	140	0.5	<2	0.56	<0.5	7	14	24	3.54
YY27726		0.21	0.001	0.2	0.83	17	<10	100	0.5	<2	0.63	<0.5	9	13	20	4.57
YY27727		0.26	0.001	0.4	0.62	25	<10	100	0.5	<2	1.37	<0.5	9	13	23	4.74
YY27728		0.24	0.001	0.4	0.78	17	<10	100	<0.5	<2	0.80	<0.5	6	8	26	2.77
YY27729		0.29	0.003	0.5	0.82	36	<10	160	0.5	<2	1.00	0.7	12	17	39	4.67
YY27730		0.16	<0.001	0.6	0.71	20	<10	170	<0.5	<2	2.41	1.2	7	11	23	5.04

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27691		<10	<1	0.02	10	<10	3.71	1765	10	0.02	59	980	55	0.06	13	2
YY27692		<10	<1	0.02	10	<10	8.54	1845	4	0.02	21	410	75	0.01	5	1
YY27693		<10	<1	0.01	10	<10	9.68	1445	2	0.02	14	250	23	0.02	2	1
YY27694		<10	<1	0.02	10	<10	8.75	1235	1	0.02	13	390	22	0.04	3	1
YY27695		<10	1	0.02	10	<10	7.92	1390	1	0.02	13	780	70	0.05	<2	1
YY27696		<10	<1	0.03	10	10	6.37	888	1	0.02	17	410	22	0.03	<2	1
YY27697		<10	<1	0.03	10	<10	6.33	845	2	0.02	16	450	17	0.04	<2	1
YY27698		<10	<1	0.04	10	<10	2.09	417	1	0.03	16	680	19	0.06	2	1
YY27699		<10	<1	0.03	10	<10	6.23	1485	3	0.01	24	500	312	0.04	7	1
YY27700		<10	<1	0.03	10	<10	3.98	978	1	0.02	18	540	106	0.03	2	1
YY27701		<10	<1	0.04	10	<10	3.46	603	2	0.01	22	400	271	0.04	9	2
YY27702		<10	<1	0.03	10	10	3.58	1160	1	0.01	25	660	73	0.02	2	2
YY27703		<10	<1	0.03	10	10	5.27	1105	1	0.02	24	500	37	0.03	2	2
YY27704		<10	<1	0.06	20	<10	3.01	539	2	0.01	34	360	33	0.08	3	2
YY27705		<10	<1	0.03	10	<10	8.37	989	6	0.01	28	510	55	0.05	5	1
YY27706		<10	<1	0.02	10	<10	7.67	1115	4	0.02	25	390	50	0.04	4	1
YY27707		<10	<1	0.02	<10	<10	9.44	1650	3	0.02	16	270	56	0.05	<2	1
YY27708		<10	<1	0.02	10	<10	7.64	1330	4	0.01	23	370	263	0.04	6	1
YY27709		<10	<1	0.01	<10	<10	8.54	1500	2	0.02	13	250	692	0.05	10	1
YY27710		<10	<1	0.01	10	<10	7.90	1105	4	0.01	38	320	70	0.06	13	1
YY27711		<10	<1	0.02	10	<10	7.23	1675	2	0.01	35	370	40	0.04	3	1
YY27712		<10	<1	0.04	10	10	2.96	875	11	0.01	87	1170	36	0.03	15	2
YY27713		<10	<1	0.02	10	10	0.46	1905	10	<0.01	62	1550	110	0.12	8	1
YY27714		<10	<1	0.04	20	10	0.44	547	3	0.01	30	680	28	0.03	4	3
YY27715		<10	<1	0.02	10	10	4.40	1290	4	0.01	28	480	59	0.04	12	2
YY27716		<10	<1	0.03	10	<10	5.52	477	2	0.01	35	760	84	0.02	4	1
YY27717		<10	<1	0.02	10	<10	3.71	765	1	0.02	16	770	67	0.04	<2	1
YY27718		<10	<1	0.04	10	<10	0.33	355	1	0.03	13	1010	60	0.08	<2	1
YY27719		<10	<1	0.03	10	<10	0.18	293	1	0.04	10	930	54	0.07	<2	1
YY27720		<10	<1	0.02	<10	<10	0.07	45	<1	0.04	1	470	5	0.03	<2	<1
YY27721		<10	<1	0.04	20	<10	0.28	645	4	<0.01	43	1080	110	0.05	5	2
YY27722		<10	<1	0.03	10	<10	0.15	548	4	0.02	30	1000	67	0.04	3	1
YY27723		<10	<1	0.02	<10	<10	0.06	56	<1	0.04	2	430	7	0.02	<2	<1
YY27724		<10	<1	0.03	10	10	1.25	1100	2	0.01	25	950	129	0.06	2	2
YY27725		<10	<1	0.03	20	10	0.36	406	3	0.01	26	1380	96	0.07	3	2
YY27726		<10	<1	0.03	20	<10	0.34	841	3	0.01	25	850	45	0.05	3	2
YY27727		<10	<1	0.03	20	<10	0.76	1095	5	0.01	37	680	72	0.04	5	2
YY27728		<10	<1	0.04	10	<10	0.27	492	4	0.03	25	840	48	0.06	3	1
YY27729		<10	1	0.04	20	10	0.64	827	6	0.01	48	760	125	0.03	5	2
YY27730		<10	<1	0.04	10	<10	1.12	1765	3	0.03	26	1100	74	0.07	3	1

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
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Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	1	20	0.01	10	10	1	10	2
YY27691		50	<20	0.01	<10	<10	23	<10	126
YY27692		96	<20	0.01	<10	<10	10	<10	169
YY27693		86	<20	<0.01	<10	<10	7	<10	47
YY27694		86	<20	0.01	<10	<10	9	<10	60
YY27695		84	<20	0.01	<10	<10	11	<10	83
YY27696		73	<20	0.02	<10	<10	16	<10	65
YY27697		67	<20	0.01	<10	<10	15	<10	201
YY27698		31	<20	0.02	<10	<10	16	<10	45
YY27699		61	<20	0.01	<10	<10	13	<10	633
YY27700		35	<20	0.02	<10	<10	19	<10	560
YY27701		34	<20	0.02	<10	<10	17	<10	451
YY27702		32	<20	0.04	<10	<10	29	<10	293
YY27703		42	<20	0.03	<10	<10	23	<10	106
YY27704		35	<20	0.01	<10	<10	16	<10	68
YY27705		83	<20	0.01	<10	<10	10	<10	52
YY27706		66	<20	0.01	<10	<10	13	<10	48
YY27707		112	<20	0.01	<10	<10	7	<10	93
YY27708		69	<20	0.01	<10	<10	14	<10	622
YY27709		82	<20	0.01	<10	<10	9	<10	1480
YY27710		181	<20	<0.01	<10	<10	8	<10	152
YY27711		70	<20	0.01	<10	<10	15	<10	119
YY27712		45	<20	0.03	<10	<10	31	<10	124
YY27713		33	<20	0.02	<10	<10	34	<10	201
YY27714		15	<20	0.04	<10	<10	40	<10	73
YY27715		65	<20	0.03	<10	<10	25	<10	148
YY27716		64	<20	0.01	<10	<10	13	<10	147
YY27717		39	<20	0.01	<10	<10	12	<10	203
YY27718		20	<20	0.02	<10	<10	20	<10	127
YY27719		18	<20	0.02	<10	<10	12	<10	115
YY27720		10	<20	0.02	<10	<10	10	<10	15
YY27721		17	<20	0.01	<10	<10	23	<10	248
YY27722		13	<20	0.01	<10	<10	22	<10	186
YY27723		9	<20	0.02	<10	<10	12	<10	13
YY27724		24	<20	0.01	<10	<10	24	<10	242
YY27725		13	<20	0.01	<10	<10	29	<10	144
YY27726		13	<20	0.01	<10	<10	24	<10	116
YY27727		17	<20	0.01	<10	<10	26	<10	124
YY27728		19	<20	0.02	<10	<10	18	<10	68
YY27729		27	<20	0.01	<10	<10	28	<10	180
YY27730		20	<20	0.01	<10	<10	21	<10	153

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Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY27731		0.19	0.002	0.6	0.75	39	<10	180	0.5	<2	1.22	0.9	12	12	27	4.92
YY27732		0.28	0.001	0.9	0.91	34	<10	140	0.5	<2	0.30	<0.5	6	13	36	2.79
YY27733		0.27	0.002	0.3	0.53	21	<10	80	<0.5	<2	0.23	1.4	13	18	47	3.03
YY27734		0.22	0.002	0.2	1.35	28	<10	100	0.5	<2	0.29	<0.5	17	18	35	3.94
YY27735		0.22	<0.001	<0.2	1.24	7	<10	50	<0.5	<2	0.35	<0.5	5	12	11	1.98
YY27736		0.26	0.001	0.2	1.62	20	<10	70	0.5	<2	0.73	<0.5	12	19	25	3.59
YY27737		0.24	0.001	0.6	0.68	18	<10	90	<0.5	<2	0.59	1.1	11	15	46	3.33
YY27738		0.28	0.001	0.6	0.73	16	<10	120	<0.5	<2	0.36	0.9	10	17	43	2.92
YY27739		0.20	<0.001	0.8	0.46	23	<10	180	<0.5	<2	0.37	<0.5	5	6	31	1.85
YY27740		0.30	0.004	0.6	0.54	38	<10	200	<0.5	<2	0.13	<0.5	9	10	51	3.10
YY27741		0.25	0.001	0.8	0.72	15	<10	100	<0.5	<2	0.10	0.5	8	12	31	2.66
YY27742		0.24	0.001	0.6	0.58	49	<10	130	<0.5	<2	0.11	<0.5	7	11	46	2.81
YY27743		0.31	0.003	0.7	0.14	29	<10	120	<0.5	<2	0.02	<0.5	4	3	39	1.14
YY27744		0.26	0.003	0.8	0.41	35	<10	130	<0.5	<2	0.36	<0.5	10	8	47	3.15
YY27745		0.29	0.003	0.5	0.52	26	<10	120	<0.5	<2	0.63	0.5	10	12	36	3.57
YY27746		0.23	0.002	0.7	0.55	32	<10	120	<0.5	<2	2.16	0.5	11	12	52	3.73
YY27747		0.19	0.001	0.5	0.47	27	<10	90	0.5	<2	1.77	0.8	9	11	25	4.43
YY27748		0.19	0.004	3.1	0.71	57	<10	110	0.6	<2	1.91	1.8	15	12	44	4.70
YY27749		0.18	<0.001	0.4	0.77	22	<10	140	0.5	<2	4.55	2.3	10	15	16	3.64
YY27750		0.23	0.002	0.9	0.55	39	<10	110	0.5	<2	0.96	0.6	11	10	45	4.33
YY27751		0.22	0.005	0.7	0.55	62	<10	100	0.5	<2	0.27	1.4	12	9	58	4.59
YY27752		0.20	0.004	0.9	0.53	50	<10	90	<0.5	<2	1.46	1.7	11	10	47	3.85
YY27753		0.26	<0.001	0.3	0.83	21	<10	160	<0.5	<2	0.57	1.2	5	14	13	2.75
YY27754		0.21	0.008	2.8	0.42	107	<10	120	<0.5	<2	4.26	3.2	20	9	94	5.92
YY27755		0.21	<0.001	<0.2	0.67	21	<10	120	<0.5	<2	0.36	<0.5	6	13	10	2.25
YY27756		0.26	0.001	0.3	0.40	15	<10	150	<0.5	<2	0.32	0.8	8	7	33	2.39
YY27757		0.30	0.002	0.6	0.43	15	<10	140	<0.5	<2	0.32	<0.5	5	6	27	2.04
YY27758		0.32	0.016	5.4	0.20	61	<10	60	<0.5	<2	13.1	8.2	6	4	54	2.15
YY27759		0.34	0.001	0.6	1.29	39	<10	140	0.6	<2	0.46	0.8	12	17	31	4.47
YY27760		0.25	<0.001	<0.2	1.10	25	<10	150	<0.5	<2	0.23	<0.5	7	13	18	3.21
YY27761		0.26	<0.001	1.0	0.71	18	<10	170	<0.5	<2	0.19	1.0	10	11	42	3.14
YY27762		0.28	<0.001	0.3	0.71	13	<10	80	<0.5	<2	0.53	0.6	4	9	15	1.89
YY27763		0.24	0.001	0.6	0.68	21	<10	90	<0.5	<2	1.86	1.7	9	10	29	2.86
YY27764		0.25	0.002	0.6	0.47	15	<10	150	<0.5	<2	0.37	0.5	4	9	19	1.90
YY27765		0.28	0.003	0.6	0.46	33	<10	140	<0.5	<2	0.11	<0.5	6	8	32	2.12
YY27766		0.26	0.003	0.6	0.47	15	<10	150	<0.5	<2	0.13	<0.5	5	10	25	1.91
YY27767		0.23	0.001	0.6	1.16	16	<10	240	0.6	<2	0.35	<0.5	13	43	29	3.64
YY27768		0.25	0.002	0.6	0.89	19	<10	140	<0.5	<2	0.18	<0.5	10	16	25	2.96
YY27769		0.27	0.001	0.5	0.67	12	<10	110	<0.5	<2	0.14	0.8	11	21	32	2.92
YY27770		0.24	0.001	0.3	0.51	10	<10	50	<0.5	<2	0.08	<0.5	7	8	28	2.13

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27731		<10	<1	0.03	20	<10	0.39	1085	7	0.02	47	1190	74	0.06	6	2
YY27732		<10	<1	0.05	20	10	0.31	179	12	0.01	31	1490	39	0.07	6	2
YY27733		<10	<1	0.05	20	10	0.23	300	4	0.01	51	1310	22	0.02	3	1
YY27734		<10	<1	0.05	40	20	0.76	727	2	0.01	37	820	38	0.01	2	4
YY27735		<10	1	0.03	20	10	0.50	178	1	0.02	11	710	11	0.04	<2	1
YY27736		<10	<1	0.04	30	20	0.86	399	1	0.01	26	550	40	0.01	2	3
YY27737		<10	<1	0.04	20	10	0.30	135	3	0.01	46	1350	20	0.04	4	2
YY27738		<10	<1	0.04	20	10	0.31	262	4	0.01	45	1350	19	0.02	4	1
YY27739		<10	<1	0.04	10	<10	0.07	97	6	0.03	31	1060	28	0.07	4	<1
YY27740		<10	<1	0.05	30	<10	0.16	272	8	0.01	52	950	37	0.04	6	2
YY27741		<10	<1	0.04	20	10	0.16	247	4	0.02	35	1030	25	0.03	3	1
YY27742		<10	<1	0.06	20	<10	0.10	248	11	0.02	45	1420	43	0.08	9	1
YY27743		<10	<1	0.03	20	<10	0.01	39	21	0.01	26	360	26	0.03	9	1
YY27744		<10	1	0.04	20	<10	0.24	535	20	0.01	50	740	55	0.03	9	2
YY27745		<10	<1	0.04	30	<10	0.32	604	11	0.01	48	1000	29	0.03	6	2
YY27746		<10	<1	0.05	20	<10	1.04	665	11	0.01	49	930	33	0.05	7	2
YY27747		<10	<1	0.03	20	<10	0.92	1110	5	0.01	40	600	55	0.03	7	2
YY27748		<10	1	0.04	20	10	0.76	1640	4	0.01	49	1200	1080	0.12	11	2
YY27749		<10	<1	0.04	20	10	2.38	1665	2	0.01	24	1080	84	0.08	4	1
YY27750		<10	<1	0.04	30	<10	0.56	752	7	0.01	65	640	65	0.02	9	2
YY27751		<10	<1	0.05	20	<10	0.15	684	13	0.01	87	1140	112	0.04	12	2
YY27752		<10	<1	0.04	20	<10	0.81	597	8	0.01	72	880	89	0.03	10	2
YY27753		<10	<1	0.04	20	10	0.26	611	2	0.01	18	1230	43	0.06	2	2
YY27754		<10	1	0.04	20	<10	2.48	806	6	0.01	87	990	533	0.03	10	2
YY27755		<10	<1	0.04	10	<10	0.20	472	3	0.01	15	970	50	0.04	3	1
YY27756		<10	<1	0.04	20	<10	0.14	379	5	0.01	32	1000	68	0.03	4	1
YY27757		<10	<1	0.03	20	<10	0.13	99	3	0.01	25	840	42	0.03	3	1
YY27758		<10	1	0.02	10	<10	7.63	873	1	0.02	17	520	887	0.03	23	1
YY27759		<10	<1	0.05	30	10	0.61	647	4	0.01	41	1050	104	0.02	5	3
YY27760		<10	1	0.05	20	10	0.47	306	3	0.01	24	990	52	0.03	2	2
YY27761		<10	1	0.06	30	10	0.21	391	4	0.01	45	1350	36	0.02	3	1
YY27762		<10	<1	0.04	20	<10	0.31	155	2	0.02	20	1010	44	0.03	3	1
YY27763		<10	<1	0.05	20	10	0.97	953	3	0.02	29	1190	85	0.04	4	1
YY27764		<10	<1	0.03	20	<10	0.17	217	5	<0.01	20	760	38	0.04	3	1
YY27765		<10	<1	0.03	20	<10	0.15	186	15	<0.01	30	710	43	0.02	5	2
YY27766		<10	1	0.04	20	<10	0.17	54	5	<0.01	26	850	35	0.02	4	2
YY27767		<10	<1	0.04	20	10	0.52	459	4	<0.01	47	1340	43	0.03	3	4
YY27768		<10	<1	0.04	20	10	0.35	425	3	<0.01	31	980	38	0.02	3	2
YY27769		<10	1	0.05	20	10	0.28	403	3	<0.01	42	1030	27	0.02	2	1
YY27770		<10	<1	0.03	10	<10	0.13	198	3	0.01	29	850	18	0.02	3	1

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method Analyte Units LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY27731		25	<20	0.01	<10	<10	26	<10	147
YY27732		40	<20	0.01	<10	10	30	<10	115
YY27733		23	<20	0.01	<10	<10	20	<10	239
YY27734		18	<20	0.01	<10	<10	17	<10	98
YY27735		17	<20	0.01	<10	<10	12	<10	43
YY27736		34	<20	<0.01	<10	<10	17	<10	78
YY27737		35	<20	0.01	<10	<10	22	<10	244
YY27738		26	<20	0.01	<10	<10	23	<10	218
YY27739		37	<20	0.01	<10	<10	20	<10	69
YY27740		40	<20	0.01	<10	<10	24	<10	154
YY27741		14	<20	0.01	<10	<10	21	<10	157
YY27742		150	<20	0.01	<10	<10	27	<10	78
YY27743		45	<20	<0.01	<10	<10	8	<10	10
YY27744		48	<20	<0.01	<10	<10	19	<10	54
YY27745		30	<20	0.01	<10	<10	26	<10	82
YY27746		39	<20	0.01	<10	<10	26	<10	82
YY27747		17	<20	0.01	<10	<10	20	<10	114
YY27748		17	<20	0.01	<10	<10	25	<10	266
YY27749		30	<20	0.01	<10	<10	26	<10	270
YY27750		17	<20	<0.01	<10	<10	23	<10	158
YY27751		24	<20	0.01	<10	<10	23	<10	246
YY27752		21	<20	0.01	<10	<10	20	<10	285
YY27753		17	<20	0.01	<10	<10	29	<10	175
YY27754		37	<20	0.01	<10	<10	21	<10	491
YY27755		10	<20	0.02	<10	<10	28	<10	121
YY27756		25	<20	<0.01	<10	<10	16	<10	211
YY27757		22	<20	<0.01	<10	<10	14	<10	155
YY27758		69	<20	<0.01	<10	<10	9	<10	1565
YY27759		17	<20	<0.01	<10	<10	31	<10	178
YY27760		11	<20	0.01	<10	<10	22	<10	138
YY27761		27	<20	0.01	<10	<10	22	<10	225
YY27762		15	<20	0.01	<10	<10	17	<10	149
YY27763		28	<20	0.01	<10	<10	23	<10	182
YY27764		26	<20	0.01	<10	<10	17	<10	87
YY27765		42	<20	<0.01	<10	<10	20	<10	75
YY27766		32	<20	<0.01	<10	<10	19	<10	96
YY27767		27	<20	0.03	<10	<10	44	<10	139
YY27768		12	<20	0.01	<10	<10	25	<10	129
YY27769		15	<20	0.01	<10	<10	26	<10	177
YY27770		9	<20	0.01	<10	<10	15	<10	139

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Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY27771		0.32	0.002	0.9	0.56	13	<10	90	<0.5	<2	0.16	1.0	10	10	41	2.58
YY27772		0.36	0.001	0.7	0.57	18	<10	90	<0.5	<2	0.26	1.2	14	13	56	3.07
YY27773		0.31	0.003	0.7	0.29	16	<10	80	<0.5	<2	0.18	0.9	10	5	47	2.68
YY27774		0.25	0.001	0.6	0.28	35	<10	90	0.6	<2	4.15	2.3	11	8	18	2.88
YY27775		0.33	0.012	0.7	1.39	27	<10	60	<0.5	<2	3.72	1.3	23	29	72	4.35
YY27776		0.28	0.011	0.8	1.04	23	<10	60	<0.5	<2	5.09	1.3	23	22	61	4.26
YY27777		0.28	0.007	0.8	0.39	66	<10	90	<0.5	<2	9.8	<0.5	12	7	18	2.51
YY27778		0.30	0.003	0.2	0.77	103	<10	100	<0.5	<2	5.00	<0.5	20	7	21	3.27
YY27779		0.26	0.003	1.1	0.34	37	<10	130	0.5	<2	6.96	1.9	13	9	44	3.03
YY27780		0.24	0.005	0.8	0.39	42	<10	140	0.6	<2	5.14	1.2	11	10	31	2.77
YY27781		0.23	0.002	0.8	0.47	28	<10	170	0.5	<2	4.30	1.5	12	10	34	2.85
YY27782		0.24	0.010	<0.2	1.01	22	<10	110	0.5	<2	0.43	<0.5	11	17	24	4.01
YY27783		0.23	0.003	<0.2	1.21	22	<10	60	<0.5	<2	0.24	<0.5	24	16	37	4.84
YY27784		0.25	0.004	0.4	0.91	16	<10	70	<0.5	<2	1.75	0.9	11	15	29	3.65
YY27785		0.24	0.001	0.5	0.84	14	<10	70	<0.5	<2	0.29	1.3	10	12	20	3.36
YY27786		0.25	0.004	0.2	1.05	26	<10	60	<0.5	<2	2.53	<0.5	22	12	25	4.17
YY27787		0.24	0.002	0.5	0.98	13	<10	70	0.5	<2	0.66	0.5	16	12	43	4.57
YY27788		0.26	0.001	0.3	1.16	10	<10	70	<0.5	<2	0.38	<0.5	16	15	32	4.64
YY27789		0.28	0.001	0.3	0.91	11	<10	70	0.5	<2	0.49	<0.5	16	12	30	4.27
YY27790		0.18	0.002	0.2	0.98	13	<10	60	<0.5	<2	0.69	<0.5	16	12	28	3.66
YY27791		0.26	<0.001	0.2	0.81	18	<10	50	<0.5	<2	0.74	<0.5	27	10	43	4.42
YY27792		0.30	0.009	0.6	0.37	17	<10	50	0.5	<2	2.12	<0.5	26	5	56	4.67
YY27793		0.27	0.010	0.6	0.60	22	<10	70	0.8	<2	0.79	<0.5	26	7	48	6.24
YY27794		0.29	<0.001	0.4	0.68	15	<10	40	0.5	<2	3.22	<0.5	33	10	76	5.68
YY27795		0.26	0.002	0.2	0.50	13	<10	60	0.5	<2	0.91	<0.5	18	4	24	4.96
YY27796		0.27	0.003	<0.2	0.64	9	<10	50	<0.5	<2	0.60	<0.5	18	6	29	3.83
YY27797		0.35	0.001	0.7	0.86	43	<10	50	<0.5	<2	0.55	2.1	23	11	40	4.38
YY27798		0.24	0.002	<0.2	0.93	13	<10	80	<0.5	<2	6.03	<0.5	21	20	30	3.63
YY27799		0.36	0.002	<0.2	0.78	9	<10	40	<0.5	<2	7.4	<0.5	18	12	25	3.10
YY27800		0.27	<0.001	<0.2	0.77	8	<10	50	<0.5	<2	6.53	<0.5	20	9	32	3.91
YY27801		0.30	0.001	<0.2	0.45	9	<10	30	<0.5	2	9.8	<0.5	16	5	22	3.00
YY27802		0.30	<0.001	<0.2	0.85	6	<10	30	<0.5	<2	11.5	<0.5	15	10	22	3.01
YY27803		0.32	0.001	<0.2	0.60	10	<10	40	<0.5	<2	10.1	<0.5	16	8	24	3.12
YY27804		0.27	0.003	0.3	0.88	20	<10	50	<0.5	<2	4.67	0.6	23	12	43	4.03
YY27805		0.32	0.001	0.2	0.72	10	<10	40	<0.5	<2	6.40	<0.5	17	9	27	3.43
YY27806		0.31	0.003	<0.2	0.79	13	<10	40	<0.5	<2	7.5	<0.5	17	10	32	3.52
YY27807		0.34	0.001	0.2	1.05	13	<10	60	<0.5	<2	3.33	<0.5	18	15	37	4.02
YY27808		0.32	0.003	0.2	1.12	11	<10	50	<0.5	<2	1.36	<0.5	18	15	36	4.01
YY27809		0.25	0.002	0.3	1.03	13	<10	60	<0.5	<2	2.20	<0.5	17	21	40	3.90
YY27810		0.31	<0.001	0.6	1.00	19	<10	70	<0.5	<2	0.94	1.5	17	17	43	4.08

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Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27771		<10	<1	0.04	20	10	0.20	250	3	<0.01	44	1060	22	0.01	3	1
YY27772		<10	<1	0.02	30	10	0.26	235	4	<0.01	54	1280	21	<0.01	5	2
YY27773		<10	<1	0.03	30	<10	0.07	195	3	<0.01	44	1230	20	0.02	4	1
YY27774		<10	<1	0.04	20	<10	2.25	1270	10	<0.01	48	1020	27	0.02	8	2
YY27775		<10	<1	0.04	40	20	1.21	395	5	<0.01	60	2290	27	0.02	6	3
YY27776		<10	<1	0.05	30	10	0.97	476	4	<0.01	57	1980	28	0.05	7	3
YY27777		<10	<1	0.03	10	<10	5.81	811	2	<0.01	25	950	245	0.03	14	1
YY27778		<10	<1	0.05	20	10	2.88	677	3	<0.01	20	2600	40	0.03	6	2
YY27779		<10	<1	0.05	20	<10	3.64	421	14	<0.01	65	2380	33	0.09	10	2
YY27780		<10	<1	0.06	20	<10	2.57	415	7	<0.01	57	1470	34	0.04	11	2
YY27781		<10	<1	0.06	20	<10	2.32	340	9	<0.01	53	1350	34	0.03	10	2
YY27782		<10	<1	0.05	20	10	0.40	465	2	<0.01	30	2000	20	0.03	3	1
YY27783		<10	<1	0.04	20	10	0.46	889	2	<0.01	33	2540	20	0.04	3	1
YY27784		<10	<1	0.05	20	10	0.73	614	1	<0.01	31	2070	16	0.04	2	1
YY27785		<10	<1	0.05	20	10	0.31	538	3	<0.01	25	1780	20	0.04	2	1
YY27786		<10	<1	0.04	20	10	0.73	445	1	<0.01	35	790	36	0.06	2	3
YY27787		<10	<1	0.04	20	10	0.44	317	2	<0.01	38	1970	23	0.04	3	2
YY27788		<10	<1	0.04	30	10	0.52	485	2	<0.01	33	1600	16	0.04	3	3
YY27789		<10	<1	0.04	30	10	0.47	487	1	<0.01	30	1000	21	0.03	<2	3
YY27790		<10	<1	0.04	30	10	0.60	289	1	<0.01	29	810	22	0.04	2	3
YY27791		<10	<1	0.04	30	10	0.48	515	1	<0.01	41	1030	27	0.06	2	2
YY27792		<10	<1	0.07	30	<10	0.19	462	4	<0.01	53	2060	32	0.06	7	3
YY27793		<10	<1	0.05	30	<10	0.31	904	4	<0.01	80	1480	39	0.04	7	3
YY27794		<10	<1	0.05	20	10	0.41	432	1	<0.01	64	2090	34	0.13	3	2
YY27795		<10	<1	0.04	30	<10	0.31	1245	1	0.01	19	690	52	0.06	<2	2
YY27796		<10	<1	0.05	20	10	0.32	405	1	<0.01	25	810	22	0.04	<2	2
YY27797		<10	<1	0.05	40	10	0.59	636	2	<0.01	37	1350	157	0.04	2	3
YY27798		<10	<1	0.06	40	10	0.87	500	1	0.01	31	910	19	0.06	<2	3
YY27799		<10	<1	0.03	30	10	0.73	414	1	<0.01	26	690	19	0.03	<2	2
YY27800		<10	<1	0.04	30	10	0.75	803	1	0.01	28	900	21	0.04	<2	3
YY27801		<10	<1	0.03	30	10	0.78	501	1	0.01	23	650	22	0.05	<2	2
YY27802		<10	<1	0.03	20	10	0.83	436	<1	0.01	25	450	15	0.02	<2	3
YY27803		<10	<1	0.04	30	10	0.74	524	1	0.01	25	640	22	0.04	<2	3
YY27804		<10	<1	0.05	30	10	0.73	533	1	0.01	34	950	69	0.04	<2	3
YY27805		<10	<1	0.05	30	10	0.58	487	1	0.01	27	780	29	0.03	<2	2
YY27806		<10	<1	0.04	30	10	0.63	495	1	0.01	31	980	23	0.04	<2	2
YY27807		<10	<1	0.04	40	10	0.74	466	1	0.01	36	1210	24	0.02	2	3
YY27808		<10	<1	0.05	30	10	0.75	398	1	0.01	35	1010	27	0.02	<2	3
YY27809		<10	<1	0.05	40	10	0.76	360	1	0.01	39	1520	26	0.03	3	3
YY27810		<10	<1	0.05	40	10	0.76	622	3	<0.01	47	1320	40	0.03	3	3

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method Analyte Units LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY27771		20	<20	0.01	<10	<10	18	<10	234
YY27772		32	<20	0.01	<10	<10	21	<10	261
YY27773		28	<20	<0.01	<10	<10	12	<10	232
YY27774		33	<20	<0.01	<10	<10	25	<10	286
YY27775		95	<20	0.01	<10	<10	36	<10	204
YY27776		121	<20	0.01	<10	<10	29	<10	187
YY27777		64	<20	0.01	<10	<10	14	<10	95
YY27778		41	<20	0.01	<10	<10	18	<10	58
YY27779		82	<20	<0.01	<10	<10	66	<10	245
YY27780		53	<20	<0.01	<10	<10	52	<10	237
YY27781		49	<20	<0.01	<10	<10	54	<10	256
YY27782		13	<20	0.01	<10	<10	27	<10	113
YY27783		10	<20	0.01	<10	<10	29	<10	99
YY27784		33	<20	0.01	<10	<10	22	<10	96
YY27785		12	<20	0.01	<10	<10	23	<10	134
YY27786		79	<20	<0.01	<10	<10	8	<10	83
YY27787		22	<20	0.01	<10	<10	15	<10	122
YY27788		14	<20	0.01	<10	<10	18	<10	79
YY27789		17	<20	0.01	<10	<10	13	<10	86
YY27790		22	<20	<0.01	<10	<10	7	<10	71
YY27791		22	<20	0.01	<10	<10	10	<10	71
YY27792		23	<20	<0.01	<10	<10	10	<10	58
YY27793		17	<20	<0.01	<10	<10	11	<10	67
YY27794		43	<20	<0.01	<10	<10	10	<10	75
YY27795		24	<20	0.01	<10	<10	13	<10	74
YY27796		17	<20	<0.01	<10	<10	7	<10	61
YY27797		21	<20	0.01	<10	<10	12	<10	372
YY27798		132	<20	0.04	<10	<10	19	<10	51
YY27799		173	<20	0.01	<10	<10	7	<10	56
YY27800		150	<20	0.01	<10	<10	9	<10	74
YY27801		221	<20	<0.01	<10	<10	4	<10	54
YY27802		262	<20	<0.01	<10	<10	5	<10	60
YY27803		230	<20	<0.01	<10	<10	6	<10	64
YY27804		112	<20	<0.01	<10	<10	12	<10	141
YY27805		156	<20	<0.01	<10	<10	7	<10	80
YY27806		191	<20	<0.01	<10	<10	9	<10	85
YY27807		88	<20	<0.01	<10	<10	15	<10	113
YY27808		37	<20	<0.01	<10	<10	13	<10	121
YY27809		61	<20	0.01	<10	<10	21	<10	133
YY27810		33	<20	<0.01	<10	<10	24	<10	206

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY27811		0.30	0.003	1.3	0.61	32	<10	70	0.5	<2	0.68	2.4	14	14	53	3.79
YY27812		0.31	0.003	1.5	0.58	31	<10	80	0.5	<2	0.72	3.3	15	11	57	3.91
YY27813		0.33	0.004	2.1	0.55	38	<10	90	0.5	<2	1.44	5.5	23	14	71	4.76
YY27814		0.31	0.004	1.3	0.46	45	<10	100	0.5	<2	1.06	2.5	16	10	61	3.81
YY27815		0.30	0.005	1.6	0.35	78	<10	110	0.7	<2	1.92	3.0	16	9	74	4.23
YY27816		0.33	0.004	1.3	0.26	73	<10	90	0.6	<2	3.91	2.9	14	7	60	3.64
YY27817		0.32	0.002	1.1	0.30	62	<10	90	0.6	<2	8.2	3.3	10	10	47	2.90
YY27818		0.28	0.004	1.0	0.50	47	<10	150	0.5	<2	3.74	1.1	15	9	55	4.06
YY27819		0.29	<0.001	0.9	0.56	16	<10	200	<0.5	<2	0.22	1.8	19	16	68	4.60
YY27820		0.26	0.003	1.2	0.56	14	<10	170	<0.5	<2	0.13	1.0	13	11	47	3.08
YY27821		0.27	0.001	0.6	0.46	15	<10	100	<0.5	<2	0.15	0.7	11	14	43	2.95
YY27822		0.23	0.003	0.9	0.59	13	<10	150	<0.5	<2	0.18	0.7	9	11	42	2.69
YY27823		0.25	<0.001	0.6	0.89	12	<10	140	<0.5	<2	0.16	<0.5	7	13	28	2.30
YY27824		0.29	0.002	1.5	0.41	10	<10	100	<0.5	<2	0.28	0.6	8	8	45	2.02
YY27825		0.36	0.003	1.3	0.22	28	<10	200	<0.5	<2	0.40	2.0	12	7	66	2.78
YY27826		0.46	0.004	2.0	0.37	16	<10	110	<0.5	<2	0.33	1.8	14	8	76	3.18
YY27827		0.48	0.003	1.3	0.43	17	<10	60	<0.5	<2	0.32	1.6	14	8	66	3.38
YY27828		0.41	0.001	1.1	0.35	13	<10	240	<0.5	<2	0.36	1.0	14	9	55	3.29
YY27829		0.29	0.001	0.8	0.89	31	<10	190	<0.5	2	0.15	0.8	15	14	42	4.15
YY27830		0.29	0.002	0.6	1.04	31	<10	130	0.5	<2	3.04	1.0	13	20	41	3.57
YY27831		0.26	<0.001	<0.2	1.71	5	<10	50	0.6	<2	2.96	<0.5	15	24	30	3.86
YY27832		0.27	<0.001	0.3	1.32	17	<10	70	0.5	<2	0.20	<0.5	11	24	22	4.06
YY27833		0.20	<0.001	0.3	1.13	22	<10	100	0.5	<2	0.83	<0.5	9	17	21	3.26
YY27834		0.28	<0.001	0.5	1.24	25	<10	100	0.5	<2	0.84	0.8	10	21	27	3.88
YY27835		0.21	<0.001	0.4	1.18	52	<10	90	0.6	<2	1.94	0.8	8	18	30	3.56
YY27836		0.24	<0.001	0.8	1.61	48	<10	110	0.6	<2	0.81	0.5	10	23	28	3.62
YY27837		0.25	0.001	0.2	1.57	10	<10	70	0.6	<2	0.76	<0.5	12	23	27	3.19
YY27838		0.26	<0.001	<0.2	1.76	16	<10	80	0.6	<2	0.23	<0.5	11	27	22	3.74
YY27839		0.25	<0.001	0.2	1.57	16	<10	70	<0.5	<2	0.13	0.6	13	27	17	3.62
YY27840		0.24	<0.001	<0.2	1.39	21	<10	100	<0.5	<2	0.25	<0.5	11	23	18	3.53
YY27841		0.24	0.001	0.6	1.71	25	<10	60	0.5	2	3.56	0.6	16	25	30	3.68
YY27842		0.28	0.030	2.1	1.26	61	<10	80	0.5	<2	3.77	4.3	13	21	45	4.62
YY27843		0.26	0.002	0.5	1.63	49	<10	120	0.7	<2	0.34	2.0	16	30	28	5.13
YY27844		0.24	<0.001	0.5	1.35	32	<10	100	0.5	<2	0.34	<0.5	9	21	21	3.23
YY27845		0.25	<0.001	0.5	1.53	42	<10	110	0.5	<2	0.97	1.0	11	29	25	3.78
YY27846		0.28	<0.001	0.3	1.91	19	<10	60	0.5	<2	0.51	0.5	16	34	23	3.79
YY27847		0.27	0.002	0.5	1.94	24	<10	70	0.5	<2	1.19	0.5	16	35	32	3.95
YY27848		0.19	<0.001	<0.2	2.03	9	<10	70	0.5	<2	0.78	<0.5	11	32	26	3.17
YY27849		0.22	<0.001	<0.2	1.92	10	<10	70	0.5	<2	0.89	<0.5	13	30	23	3.17
YY27850		0.26	<0.001	<0.2	2.31	19	<10	50	0.6	<2	0.38	<0.5	23	42	25	4.10

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27811		<10	<1	0.06	30	10	0.33	349	7	0.01	50	1860	41	0.04	7	3
YY27812		<10	<1	0.07	30	<10	0.29	347	7	0.01	46	1940	48	0.04	6	3
YY27813		<10	<1	0.06	30	10	0.34	658	7	<0.01	60	2300	73	0.05	6	3
YY27814		<10	<1	0.06	20	<10	0.36	290	12	0.01	63	1630	40	0.05	12	3
YY27815		<10	<1	0.06	20	<10	0.67	466	24	0.01	98	1790	59	0.06	23	3
YY27816		<10	<1	0.05	20	<10	1.94	470	26	0.01	105	1550	52	0.04	25	3
YY27817		<10	<1	0.06	20	<10	4.29	442	21	0.01	90	2070	90	0.04	16	2
YY27818		<10	<1	0.05	20	<10	2.09	773	4	<0.01	66	1340	44	0.04	9	2
YY27819		<10	<1	0.05	20	10	0.18	670	5	<0.01	81	1470	30	0.04	6	2
YY27820		<10	<1	0.05	30	<10	0.15	327	4	<0.01	48	1080	33	0.03	5	1
YY27821		<10	<1	0.05	30	<10	0.15	387	4	<0.01	42	1240	31	0.03	3	1
YY27822		<10	<1	0.05	20	10	0.18	214	3	<0.01	41	940	25	0.03	3	1
YY27823		<10	<1	0.04	20	10	0.25	230	2	0.01	26	820	23	0.04	2	1
YY27824		<10	<1	0.04	10	<10	0.10	141	3	0.01	32	1230	24	0.10	3	1
YY27825		<10	<1	0.05	30	<10	0.04	304	5	<0.01	59	1950	28	0.03	4	1
YY27826		<10	<1	0.04	30	<10	0.12	300	7	<0.01	64	1790	27	0.02	5	1
YY27827		<10	<1	0.05	40	10	0.16	295	6	0.01	66	1540	33	0.02	7	2
YY27828		<10	<1	0.04	20	<10	0.09	553	4	<0.01	49	1580	23	0.04	3	2
YY27829		<10	<1	0.05	20	10	0.25	713	5	<0.01	47	1510	86	0.05	4	1
YY27830		<10	<1	0.06	30	10	1.82	539	5	0.01	50	1320	57	0.03	6	3
YY27831		<10	<1	0.03	50	30	1.12	429	<1	0.01	36	650	11	0.03	<2	3
YY27832		<10	<1	0.04	30	20	0.61	582	6	0.01	37	1060	152	0.05	3	2
YY27833		<10	<1	0.04	30	10	0.44	824	2	0.01	26	1220	60	0.08	2	2
YY27834		<10	<1	0.04	30	10	0.55	747	2	<0.01	34	1300	65	0.07	2	3
YY27835		<10	<1	0.03	30	10	0.60	570	2	0.01	31	1520	77	0.09	2	3
YY27836		<10	<1	0.03	30	20	0.71	555	2	0.01	29	1410	158	0.08	2	3
YY27837		<10	<1	0.04	30	20	0.90	426	2	0.02	30	930	40	0.06	<2	3
YY27838		<10	<1	0.04	40	30	0.90	492	1	0.01	33	930	41	0.04	2	3
YY27839		10	<1	0.04	20	20	0.73	1005	2	0.01	27	890	56	0.05	2	1
YY27840		<10	<1	0.04	20	20	0.52	1060	2	0.01	23	910	90	0.06	2	1
YY27841		<10	<1	0.03	40	30	1.61	550	1	0.01	41	890	140	0.03	4	3
YY27842		<10	<1	0.03	30	20	2.60	889	2	0.01	46	910	424	0.04	6	4
YY27843		<10	<1	0.04	30	20	0.72	1205	3	0.01	43	1200	345	0.06	4	3
YY27844		<10	<1	0.03	20	10	0.50	567	2	0.02	25	1230	257	0.06	3	2
YY27845		<10	<1	0.03	20	20	0.84	792	1	0.01	31	1480	143	0.10	4	3
YY27846		<10	<1	0.03	30	30	1.36	870	1	0.01	35	810	72	0.04	2	5
YY27847		<10	<1	0.04	20	30	1.61	715	1	0.01	38	920	161	0.05	2	4
YY27848		10	<1	0.04	20	30	1.15	484	<1	0.02	27	1310	20	0.09	<2	4
YY27849		<10	<1	0.04	20	30	1.13	675	<1	0.02	27	1160	23	0.08	<2	3
YY27850		10	<1	0.04	30	40	1.46	1310	1	0.01	36	1120	56	0.05	<2	5

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Finalized Date: 5-OCT-2022
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Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method / Analyte / Units / LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY27811		22	<20	0.01	<10	<10	36	<10	319
YY27812		21	<20	<0.01	<10	<10	38	<10	402
YY27813		33	<20	<0.01	<10	<10	35	<10	448
YY27814		31	<20	0.01	<10	<10	36	<10	382
YY27815		40	<20	<0.01	<10	<10	48	<10	477
YY27816		47	<20	<0.01	<10	<10	38	<10	454
YY27817		114	<20	<0.01	<10	<10	42	<10	632
YY27818		56	<20	<0.01	<10	<10	21	<10	263
YY27819		26	<20	<0.01	<10	<10	16	<10	194
YY27820		17	<20	<0.01	<10	<10	21	<10	263
YY27821		16	<20	<0.01	<10	<10	18	<10	227
YY27822		20	<20	0.01	<10	<10	21	<10	202
YY27823		16	<20	0.01	<10	<10	23	<10	114
YY27824		21	<20	0.01	<10	<10	15	<10	166
YY27825		46	<20	<0.01	<10	<10	19	<10	341
YY27826		36	<20	<0.01	<10	<10	18	<10	332
YY27827		27	20	<0.01	<10	<10	15	<10	376
YY27828		31	<20	0.01	<10	<10	18	<10	158
YY27829		18	<20	<0.01	<10	<10	33	<10	221
YY27830		66	<20	0.01	<10	<10	28	<10	208
YY27831		100	<20	0.01	<10	<10	17	<10	64
YY27832		12	<20	0.01	<10	<10	25	<10	237
YY27833		35	<20	0.01	<10	<10	21	<10	111
YY27834		34	<20	0.01	<10	<10	26	<10	188
YY27835		68	<20	0.01	<10	<10	23	<10	235
YY27836		48	<20	0.01	<10	<10	26	<10	170
YY27837		37	<20	0.02	<10	<10	21	<10	88
YY27838		17	<20	0.01	<10	<10	25	<10	105
YY27839		11	<20	0.01	<10	<10	28	<10	116
YY27840		16	<20	0.01	<10	<10	28	<10	102
YY27841		110	<20	0.01	<10	<10	17	<10	182
YY27842		31	<20	0.01	<10	<10	24	<10	1360
YY27843		13	<20	0.01	<10	<10	35	<10	478
YY27844		22	<20	0.01	<10	<10	27	<10	156
YY27845		41	<20	0.01	<10	<10	26	<10	223
YY27846		24	<20	0.01	<10	<10	24	<10	120
YY27847		33	<20	0.01	<10	<10	26	<10	148
YY27848		41	<20	0.01	<10	<10	23	<10	89
YY27849		43	<20	0.01	<10	<10	20	<10	92
YY27850		22	<20	0.01	<10	<10	30	<10	93

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY27851		0.24	<0.001	<0.2	2.55	13	<10	50	0.7	<2	0.41	<0.5	24	44	30	4.52
YY27852		0.25	<0.001	<0.2	2.12	18	<10	60	0.5	<2	0.25	<0.5	21	33	22	4.02
YY27853		0.25	<0.001	0.2	1.94	17	<10	70	0.5	<2	0.41	<0.5	22	30	23	3.76
YY27854		0.28	0.001	<0.2	2.10	25	<10	70	<0.5	<2	0.37	<0.5	23	44	19	4.19
YY27855		0.26	<0.001	<0.2	1.94	12	<10	50	0.5	<2	0.24	<0.5	16	26	21	3.51
YY27856		0.25	0.001	0.4	1.43	19	<10	80	<0.5	<2	1.38	0.5	12	26	27	2.74
YY27857		0.25	<0.001	0.2	1.78	22	<10	70	0.5	<2	0.29	0.5	20	30	24	3.83
YY27858		0.24	<0.001	0.2	1.89	29	<10	60	0.6	<2	0.23	0.8	18	31	36	4.51
YY27859		0.21	<0.001	0.4	1.36	27	<10	90	0.5	<2	0.21	1.3	10	31	19	3.29
YY27860		0.23	<0.001	0.3	1.66	24	<10	50	<0.5	<2	0.54	0.9	7	26	20	3.24
YY27861		0.20	<0.001	<0.2	1.52	21	<10	110	<0.5	<2	0.24	1.4	16	31	19	3.61
YY27862		0.22	<0.001	0.2	1.03	22	<10	70	<0.5	<2	0.07	1.0	9	25	17	3.33
YY27863		0.25	<0.001	0.3	0.83	33	<10	70	<0.5	<2	0.20	1.1	6	15	19	2.99
YY27864		0.24	0.001	0.4	1.05	39	<10	80	<0.5	<2	0.10	0.9	8	20	23	3.68
YY27865		0.25	<0.001	0.4	1.05	32	<10	80	<0.5	<2	0.39	1.0	13	18	28	3.65
YY27866		0.25	0.002	0.6	0.83	49	<10	70	<0.5	<2	0.47	1.8	12	14	51	4.20
YY27867		0.23	0.004	1.1	1.20	78	<10	80	0.6	<2	0.15	1.5	12	23	28	4.98
YY27868		0.25	0.004	1.4	1.11	63	<10	120	0.6	<2	0.69	2.2	12	22	36	5.05
YY27869		0.27	0.001	0.4	1.19	67	<10	130	0.5	<2	0.33	1.1	12	20	23	5.31
YY27870		0.31	<0.001	0.3	0.86	16	<10	150	<0.5	<2	0.28	<0.5	4	15	13	2.30
YY27871		0.30	<0.001	<0.2	1.00	28	<10	110	<0.5	<2	0.24	<0.5	8	17	22	3.12
YY27872		0.25	<0.001	<0.2	0.34	<2	<10	20	<0.5	<2	0.14	<0.5	1	2	6	0.46
YY27873		0.38	<0.001	<0.2	0.88	26	<10	70	<0.5	<2	0.05	<0.5	5	13	17	2.86
YY27874		0.32	<0.001	0.4	1.03	25	<10	180	<0.5	<2	0.34	<0.5	7	14	20	3.07
YY27875		0.30	0.001	0.6	0.68	25	<10	80	<0.5	<2	0.89	0.6	10	12	23	2.86
YY27876		0.28	0.003	0.7	0.38	35	<10	100	0.5	<2	7.1	1.0	6	5	16	2.34
YY27877		0.34	0.004	3.7	0.59	35	<10	60	<0.5	<2	4.16	2.3	9	11	41	3.24
YY27878		0.37	0.003	1.3	0.31	31	<10	80	<0.5	<2	9.8	1.4	7	7	22	2.95
YY27879		0.19	<0.001	0.9	0.70	25	<10	100	<0.5	<2	3.93	0.7	12	10	28	2.40
YY27880		0.30	0.002	0.7	0.35	26	<10	100	<0.5	<2	1.36	1.0	12	7	46	2.96
YY27881		0.29	0.003	0.6	0.52	14	<10	130	<0.5	<2	0.24	0.6	8	9	41	2.55
YY27882		0.33	0.003	0.6	0.50	15	<10	120	<0.5	<2	0.24	1.1	9	10	38	2.57
YY27883		0.35	0.002	0.5	0.63	15	<10	130	<0.5	<2	0.21	1.1	9	11	35	2.62
YY27884		0.36	0.003	0.5	0.56	16	<10	200	<0.5	<2	0.15	<0.5	7	9	32	2.59
YY27885		0.42	0.003	0.7	0.50	13	<10	100	<0.5	<2	0.24	0.5	9	7	43	2.82
YY27886		0.35	0.002	0.8	0.52	12	<10	100	<0.5	<2	0.14	0.7	10	10	39	2.65
YY27887		0.40	0.004	1.1	0.90	15	<10	180	<0.5	<2	0.13	0.5	12	15	35	3.40
YY27888		0.32	0.002	0.7	0.52	14	<10	100	<0.5	<2	0.21	1.1	14	10	49	3.39
YY27889		0.52	0.002	1.0	1.11	11	<10	120	<0.5	<2	0.23	1.3	22	41	55	4.83
YY27890		0.47	0.002	0.5	0.53	21	<10	80	<0.5	<2	0.31	1.0	14	10	52	3.48

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27851		10	<1	0.04	50	40	1.59	1075	<1	0.01	38	1200	38	0.05	<2	5
YY27852		10	<1	0.04	20	30	1.37	1165	1	0.01	33	1030	106	0.06	2	4
YY27853		10	<1	0.04	30	30	1.13	1015	1	0.01	31	1000	59	0.05	2	4
YY27854		10	<1	0.04	20	30	1.30	1095	1	0.01	40	1120	84	0.05	2	3
YY27855		<10	<1	0.03	20	30	1.05	602	1	0.01	28	950	64	0.06	<2	2
YY27856		<10	<1	0.03	20	20	1.08	571	<1	0.02	27	960	104	0.06	2	3
YY27857		<10	<1	0.04	20	30	0.98	1220	1	0.01	32	1200	132	0.05	<2	3
YY27858		<10	<1	0.04	30	30	1.13	1180	2	0.01	38	1110	138	0.05	3	4
YY27859		<10	<1	0.05	20	20	0.69	382	2	0.01	33	850	166	0.06	2	1
YY27860		<10	<1	0.04	20	20	0.79	267	2	0.01	29	1090	150	0.07	<2	3
YY27861		10	<1	0.04	20	20	0.69	1765	2	0.01	25	990	93	0.07	2	1
YY27862		<10	<1	0.04	20	10	0.42	756	3	0.01	23	890	84	0.05	2	<1
YY27863		<10	<1	0.03	20	10	0.28	292	3	0.01	25	970	197	0.04	4	<1
YY27864		<10	<1	0.04	20	10	0.36	544	4	0.01	30	930	400	0.05	3	1
YY27865		<10	<1	0.04	20	10	0.43	756	3	0.01	31	1230	211	0.05	3	1
YY27866		<10	<1	0.04	20	10	0.36	419	5	0.01	54	1290	211	0.04	6	2
YY27867		<10	<1	0.04	20	10	0.37	1205	4	0.01	39	1190	1015	0.05	6	1
YY27868		<10	<1	0.04	30	10	0.51	1240	4	0.01	48	1560	306	0.07	6	3
YY27869		<10	<1	0.04	20	10	0.36	1740	4	0.02	31	1320	465	0.07	4	2
YY27870		<10	<1	0.04	20	10	0.28	125	2	0.01	17	890	48	0.04	3	1
YY27871		<10	<1	0.04	20	10	0.35	281	3	0.01	31	1110	58	0.02	3	1
YY27872		<10	<1	0.02	<10	<10	0.05	49	1	0.02	3	500	4	<0.01	<2	<1
YY27873		<10	<1	0.04	20	10	0.34	318	4	<0.01	20	910	50	0.01	4	2
YY27874		<10	<1	0.04	20	10	0.39	297	3	<0.01	22	990	53	0.01	2	2
YY27875		<10	<1	0.02	20	10	0.47	396	3	<0.01	33	630	98	0.02	6	2
YY27876		<10	<1	0.02	30	<10	4.09	1610	5	0.01	21	430	99	0.02	6	1
YY27877		<10	<1	0.03	20	10	2.40	680	4	<0.01	39	950	533	0.02	13	2
YY27878		<10	<1	0.02	10	<10	5.71	1205	3	<0.01	29	570	163	0.02	7	1
YY27879		<10	<1	0.03	10	<10	2.26	771	1	0.01	29	1090	157	0.02	9	2
YY27880		<10	<1	0.03	20	<10	0.64	307	5	<0.01	46	1340	69	0.02	7	2
YY27881		<10	<1	0.04	20	<10	0.18	194	4	<0.01	38	1200	26	0.01	4	1
YY27882		<10	<1	0.04	20	<10	0.17	278	3	<0.01	36	1370	32	0.02	3	1
YY27883		<10	<1	0.04	20	10	0.18	288	3	<0.01	35	1270	28	0.02	2	1
YY27884		<10	<1	0.05	20	10	0.19	208	5	<0.01	30	1000	35	0.03	3	1
YY27885		<10	<1	0.03	30	10	0.18	172	4	<0.01	38	1290	18	0.02	4	1
YY27886		<10	<1	0.04	20	<10	0.15	228	3	<0.01	39	1060	18	0.02	2	1
YY27887		<10	<1	0.04	20	10	0.27	380	3	<0.01	37	1240	29	0.03	3	1
YY27888		<10	<1	0.03	30	10	0.18	417	4	<0.01	52	1240	24	0.01	4	1
YY27889		<10	<1	0.03	30	20	0.58	691	3	<0.01	68	1380	20	0.01	3	4
YY27890		<10	<1	0.03	20	10	0.19	439	4	<0.01	50	1630	19	<0.01	4	2

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method Analyte Units LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY27851		25	<20	0.01	<10	<10	24	<10	88
YY27852		16	<20	0.01	<10	<10	24	<10	109
YY27853		29	<20	0.01	<10	<10	21	<10	110
YY27854		24	<20	0.01	<10	<10	30	<10	147
YY27855		20	<20	0.01	<10	<10	19	<10	95
YY27856		50	<20	0.01	<10	<10	22	<10	115
YY27857		21	<20	0.01	<10	<10	25	<10	139
YY27858		16	<20	0.01	<10	<10	23	<10	197
YY27859		14	<20	0.02	<10	<10	30	<10	245
YY27860		29	<20	0.02	<10	<10	24	<10	278
YY27861		19	<20	0.01	<10	<10	33	<10	132
YY27862		8	<20	0.01	<10	<10	32	<10	117
YY27863		14	<20	0.01	<10	<10	32	<10	279
YY27864		9	<20	0.01	<10	<10	33	<10	288
YY27865		22	<20	0.01	<10	<10	26	<10	208
YY27866		29	<20	0.01	<10	<10	25	<10	466
YY27867		10	<20	0.01	<10	<10	33	<10	490
YY27868		24	<20	0.01	<10	<10	31	<10	498
YY27869		13	<20	0.02	<10	<10	36	<10	386
YY27870		13	<20	0.01	<10	<10	22	<10	88
YY27871		17	<20	0.01	<10	<10	26	<10	168
YY27872		10	<20	0.03	<10	<10	13	<10	12
YY27873		5	<20	0.01	<10	<10	21	<10	105
YY27874		17	<20	<0.01	<10	<10	26	<10	107
YY27875		15	<20	<0.01	<10	<10	19	<10	176
YY27876		38	<20	0.01	<10	<10	10	<10	218
YY27877		32	<20	0.01	<10	<10	25	<10	460
YY27878		53	<20	<0.01	<10	<10	16	<10	263
YY27879		28	<20	0.01	<10	<10	17	<10	195
YY27880		42	<20	<0.01	<10	<10	16	<10	239
YY27881		26	<20	<0.01	<10	<10	17	<10	186
YY27882		27	<20	<0.01	<10	<10	18	<10	187
YY27883		23	<20	0.01	<10	<10	19	<10	173
YY27884		37	<20	<0.01	<10	<10	19	<10	147
YY27885		39	<20	<0.01	<10	<10	18	<10	177
YY27886		21	<20	0.01	<10	<10	20	<10	184
YY27887		13	<20	0.01	<10	<10	27	<10	171
YY27888		23	<20	0.01	<10	<10	20	<10	258
YY27889		28	<20	0.01	<10	<10	37	<10	259
YY27890		27	<20	<0.01	<10	<10	24	<10	215

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
YY27891		0.37	0.001	0.7	0.75	18	<10	120	<0.5	<2	0.21	0.9	12	10	47	3.40
YY27892		0.31	0.001	0.7	0.42	9	<10	100	<0.5	<2	0.07	0.6	7	5	34	2.17
YY27893		0.39	0.002	0.9	0.36	38	<10	130	0.6	<2	4.89	0.9	11	10	26	2.85
YY27894		0.42	<0.001	0.6	0.27	40	<10	60	0.6	<2	4.40	<0.5	7	7	37	2.21
YY27895		0.46	0.001	1.2	0.21	37	<10	30	0.9	<2	1.82	2.6	13	5	60	3.05
YY27896		0.36	0.018	0.9	1.41	24	<10	70	0.5	<2	0.86	1.5	21	34	72	4.63
YY27897		0.34	0.003	1.2	0.49	40	<10	150	0.6	<2	6.05	1.3	12	13	43	2.99
YY27898		0.25	0.004	0.6	0.80	20	<10	160	0.6	<2	4.11	0.7	8	13	24	2.72
YY27899		0.31	0.005	0.2	1.17	22	<10	60	0.6	<2	0.37	<0.5	17	18	35	4.70
YY27900		0.33	0.002	<0.2	0.30	10	<10	40	<0.5	<2	0.29	<0.5	15	4	29	3.68
YY27901		0.24	<0.001	<0.2	0.61	11	<10	60	<0.5	<2	1.13	<0.5	11	6	19	2.95
YY27902		0.33	0.004	<0.2	0.96	16	<10	60	0.5	<2	0.28	<0.5	11	15	26	3.51
YY27903		0.33	<0.001	<0.2	0.87	19	<10	50	<0.5	2	0.11	<0.5	12	11	22	3.61
YY27904		0.31	<0.001	0.2	1.04	12	<10	60	<0.5	<2	0.38	<0.5	15	14	33	4.36
YY27905		0.45	<0.001	<0.2	1.14	11	<10	70	<0.5	<2	0.56	<0.5	16	15	30	3.58
YY27906		0.29	<0.001	<0.2	1.08	7	<10	90	<0.5	<2	0.18	<0.5	13	14	16	3.75
YY27907		0.36	<0.001	<0.2	1.27	9	<10	70	<0.5	<2	0.33	<0.5	14	15	15	4.03
YY27908		0.33	<0.001	<0.2	1.23	10	<10	90	<0.5	<2	0.25	<0.5	14	16	15	4.14
YY27909		0.32	0.004	0.2	0.68	13	<10	40	0.5	<2	0.35	<0.5	19	7	32	4.56
YY27910		0.32	<0.001	<0.2	0.70	11	<10	50	0.5	<2	0.58	<0.5	20	9	30	4.35
YY27911		0.46	0.001	0.2	0.56	13	<10	40	<0.5	<2	6.74	<0.5	21	7	28	3.49
YY27912		0.42	<0.001	<0.2	1.03	6	<10	30	<0.5	<2	4.89	<0.5	16	15	33	3.20
YY27913		0.35	0.003	0.2	0.89	16	<10	60	<0.5	<2	1.39	<0.5	20	12	35	5.02
YY27914		0.40	0.003	0.3	0.71	17	<10	70	<0.5	<2	0.63	<0.5	20	8	35	4.44
YY27915		0.44	0.002	0.2	0.50	11	<10	40	<0.5	<2	2.74	<0.5	18	8	27	3.76
YY27916		0.48	0.001	<0.2	0.40	10	<10	40	<0.5	<2	6.25	<0.5	16	6	21	3.26
YY27917		0.44	<0.001	<0.2	0.80	12	<10	40	<0.5	<2	5.63	<0.5	22	9	25	3.40
YY27918		0.46	<0.001	<0.2	0.53	8	<10	40	<0.5	<2	8.9	<0.5	14	7	20	2.75
YY27919		0.32	0.001	0.2	0.51	11	<10	40	<0.5	<2	3.84	<0.5	15	6	24	3.28
YY27920		0.33	0.002	0.2	0.42	16	<10	40	<0.5	<2	4.37	<0.5	21	8	28	3.48
YY27921		0.44	0.001	0.2	0.63	24	<10	40	<0.5	<2	4.81	<0.5	21	8	32	3.67
YY27922		0.32	0.002	0.2	0.92	9	<10	50	<0.5	2	4.00	<0.5	20	12	32	3.60
YY27923		0.42	0.005	0.3	1.15	21	<10	60	<0.5	<2	3.94	0.6	26	16	46	4.14
YY27924		0.36	0.007	0.5	0.88	17	<10	50	<0.5	<2	6.53	0.7	21	16	49	3.67
YY27925		0.35	0.009	0.7	1.31	21	<10	60	0.5	<2	0.75	1.0	19	24	61	4.45
YY27926		0.35	0.002	1.0	1.14	29	<10	100	<0.5	<2	1.52	2.4	21	26	56	4.29
YY27927		0.35	0.001	0.6	1.00	17	<10	130	<0.5	<2	1.97	1.1	18	18	45	3.90
YY27928		0.30	0.001	0.5	0.85	15	<10	90	<0.5	<2	4.99	0.9	17	14	38	3.52
YY27929		0.32	0.004	1.0	0.82	38	<10	190	0.6	<2	0.59	1.1	12	24	45	3.44
YY27930		0.41	0.004	1.1	0.75	49	<10	190	0.6	<2	0.50	1.6	13	18	50	3.55

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27891		<10	<1	0.04	20	10	0.22	315	3	<0.01	42	1440	17	0.01	3	2
YY27892		<10	<1	0.04	10	<10	0.05	176	3	0.01	31	840	18	0.03	3	<1
YY27893		<10	<1	0.05	20	<10	2.58	1265	9	<0.01	58	1600	36	0.03	8	2
YY27894		<10	1	0.05	20	<10	2.11	516	7	<0.01	58	3090	29	0.01	13	2
YY27895		<10	<1	0.08	20	<10	0.75	322	20	<0.01	98	1400	33	0.04	14	2
YY27896		<10	1	0.05	40	20	1.12	384	5	<0.01	64	2390	30	0.02	6	4
YY27897		<10	<1	0.07	20	<10	2.84	488	13	<0.01	70	1990	84	0.06	14	2
YY27898		<10	<1	0.05	20	10	2.18	559	3	0.01	30	1370	136	0.06	7	1
YY27899		<10	<1	0.04	30	10	0.48	534	2	<0.01	41	1640	27	0.01	3	2
YY27900		<10	<1	0.03	30	<10	0.11	500	1	<0.01	30	580	9	0.01	<2	3
YY27901		<10	<1	0.03	20	<10	0.21	396	1	<0.01	19	800	11	0.01	<2	2
YY27902		<10	<1	0.04	30	10	0.38	473	1	<0.01	28	1540	15	0.01	2	2
YY27903		<10	1	0.04	20	10	0.31	670	1	<0.01	23	850	14	0.01	<2	1
YY27904		<10	<1	0.04	30	10	0.50	381	1	<0.01	33	1210	18	0.02	3	3
YY27905		<10	1	0.03	30	10	0.71	590	1	<0.01	30	800	21	0.04	<2	3
YY27906		<10	<1	0.03	30	10	0.46	577	1	<0.01	21	900	19	0.02	2	3
YY27907		<10	1	0.03	30	10	0.64	779	1	<0.01	24	770	19	0.02	2	4
YY27908		<10	<1	0.04	20	10	0.55	691	<1	0.01	22	820	14	0.03	<2	3
YY27909		<10	<1	0.04	20	10	0.30	564	1	0.01	31	1010	24	0.05	2	2
YY27910		<10	<1	0.04	30	10	0.37	575	<1	0.01	30	870	23	0.03	<2	3
YY27911		<10	<1	0.03	30	10	0.54	402	<1	0.01	32	720	21	0.06	<2	2
YY27912		<10	<1	0.03	20	10	1.01	352	<1	0.01	28	480	9	0.03	<2	2
YY27913		<10	<1	0.04	30	10	0.52	710	1	0.01	37	1000	25	0.05	2	3
YY27914		<10	<1	0.04	30	10	0.40	554	1	0.01	34	1140	28	0.04	2	3
YY27915		<10	<1	0.04	30	<10	0.44	552	1	0.01	27	770	22	0.04	<2	4
YY27916		<10	<1	0.03	20	<10	0.70	600	1	0.01	22	700	14	0.07	<2	2
YY27917		<10	<1	0.03	30	10	0.73	491	1	0.01	26	660	22	0.07	<2	2
YY27918		<10	<1	0.03	20	10	0.52	504	<1	0.01	21	570	14	0.05	<2	2
YY27919		<10	<1	0.04	20	<10	0.35	407	<1	0.01	20	670	22	0.04	<2	2
YY27920		<10	<1	0.04	30	<10	0.44	483	1	0.01	28	770	25	0.05	<2	2
YY27921		<10	<1	0.04	30	10	0.58	517	<1	0.01	31	1020	21	0.05	3	2
YY27922		<10	<1	0.04	20	10	0.69	413	1	0.01	31	720	27	0.03	<2	2
YY27923		<10	<1	0.04	30	10	0.87	437	1	0.01	43	1060	42	0.05	2	3
YY27924		<10	<1	0.04	30	10	0.72	408	2	0.01	42	1610	32	0.03	2	3
YY27925		<10	<1	0.04	40	20	0.88	457	3	0.01	50	2040	34	0.03	4	3
YY27926		<10	<1	0.05	30	10	0.89	627	5	0.01	70	1920	74	0.03	8	3
YY27927		<10	<1	0.05	30	10	0.72	668	4	0.01	53	1320	39	0.03	7	3
YY27928		<10	<1	0.04	30	10	0.71	653	3	0.01	43	960	38	0.04	5	2
YY27929		<10	<1	0.05	20	10	0.36	452	10	0.01	61	1380	35	0.03	11	3
YY27930		<10	<1	0.06	30	10	0.30	406	12	0.01	65	1500	37	0.03	13	3

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method Analyte Units LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY27891		24	<20	0.01	<10	<10	26	<10	217
YY27892		23	<20	0.01	<10	<10	11	<10	153
YY27893		47	<20	<0.01	<10	<10	31	<10	110
YY27894		47	<20	0.01	<10	<10	31	<10	127
YY27895		26	<20	<0.01	<10	<10	30	<10	456
YY27896		28	<20	0.01	<10	<10	40	<10	224
YY27897		81	<20	<0.01	<10	<10	70	<10	242
YY27898		37	<20	0.01	<10	<10	34	<10	136
YY27899		13	<20	0.01	<10	<10	23	<10	78
YY27900		10	<20	<0.01	<10	<10	3	<10	63
YY27901		35	<20	0.01	<10	<10	8	<10	41
YY27902		11	<20	0.01	<10	<10	18	<10	59
YY27903		7	<20	0.01	<10	<10	17	<10	61
YY27904		15	<20	0.01	<10	<10	15	<10	78
YY27905		27	<20	0.01	<10	<10	12	<10	71
YY27906		12	<20	0.01	<10	<10	12	<10	69
YY27907		19	<20	0.01	<10	<10	11	<10	58
YY27908		15	<20	0.01	<10	<10	15	<10	47
YY27909		12	<20	<0.01	<10	<10	8	<10	67
YY27910		22	<20	<0.01	<10	<10	8	<10	67
YY27911		157	<20	<0.01	<10	<10	5	<10	74
YY27912		133	<20	<0.01	<10	<10	5	<10	57
YY27913		40	<20	<0.01	<10	<10	12	<10	97
YY27914		24	<20	0.01	<10	<10	11	<10	86
YY27915		76	<20	0.01	<10	<10	5	<10	74
YY27916		156	<20	<0.01	<10	<10	4	<10	55
YY27917		152	<20	<0.01	<10	<10	5	<10	51
YY27918		262	<20	<0.01	<10	<10	4	<10	44
YY27919		81	<20	<0.01	<10	<10	5	<10	68
YY27920		87	<20	<0.01	<10	<10	4	<10	61
YY27921		111	<20	0.01	<10	<10	8	<10	62
YY27922		112	<20	<0.01	<10	<10	9	<10	75
YY27923		99	<20	<0.01	<10	<10	15	<10	144
YY27924		167	<20	0.01	<10	<10	15	<10	156
YY27925		26	<20	0.01	<10	<10	30	<10	194
YY27926		41	<20	<0.01	<10	<10	37	<10	287
YY27927		50	<20	<0.01	<10	<10	18	<10	174
YY27928		125	<20	<0.01	<10	<10	13	<10	177
YY27929		27	<20	0.01	<10	<10	43	<10	227
YY27930		26	<20	0.01	<10	<10	46	<10	267

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
YY27931		0.40	0.002	1.1	0.78	47	<10	200	0.6	<2	0.44	1.6	12	22	49	3.53
YY27932		0.35	0.010	2.0	0.45	120	<10	140	0.7	<2	0.75	2.8	18	13	67	4.37
YY27933		0.39	0.012	1.9	0.53	76	<10	150	0.5	<2	1.62	2.4	18	12	56	3.96
YY27934		0.34	0.009	2.0	0.36	155	<10	210	0.6	3	1.14	2.9	17	12	75	4.83
YY27935		0.33	0.003	1.0	0.81	16	<10	240	<0.5	<2	0.19	0.8	10	20	44	2.82
YY27936		0.40	0.003	0.8	0.62	16	<10	190	<0.5	<2	0.21	1.0	12	16	61	3.27
YY27937		0.38	0.004	0.8	0.74	14	<10	160	<0.5	<2	0.22	1.5	12	15	58	2.99
YY27938		0.37	0.002	0.6	0.81	11	<10	150	<0.5	<2	0.19	0.6	8	22	33	2.08
YY27939		0.42	0.002	0.6	1.07	13	<10	340	<0.5	<2	0.40	0.7	13	35	46	3.17
YY27940		0.31	0.004	1.2	0.41	12	<10	100	<0.5	<2	0.26	0.8	9	7	53	2.43
YY27941		0.33	<0.001	0.6	1.26	6	<10	110	<0.5	<2	0.52	0.5	14	14	36	4.94
YY27942		0.47	0.002	0.7	0.33	9	<10	140	<0.5	<2	0.21	0.5	9	8	50	2.32
YY27943		0.43	0.003	1.7	0.68	14	<10	210	<0.5	<2	0.31	1.4	12	12	54	2.96
YY27944		0.27	0.001	0.5	1.12	30	<10	120	0.5	<2	0.81	<0.5	10	19	29	3.38
YY27945		0.33	0.001	0.2	1.79	9	<10	80	0.7	<2	0.97	<0.5	15	23	35	4.07
YY27946		0.32	0.001	0.6	1.03	27	<10	90	<0.5	<2	0.56	0.6	7	19	20	3.22
YY27947		0.30	<0.001	0.4	1.20	25	<10	80	0.5	<2	0.29	0.7	9	21	22	3.87
YY27948		0.30	<0.001	0.2	1.21	14	<10	90	0.5	<2	0.75	0.5	9	17	24	3.06
YY27949		0.38	0.002	1.2	1.12	39	<10	90	0.5	<2	0.33	1.4	10	20	34	4.11
YY27950		0.38	0.011	0.4	0.98	46	<10	80	<0.5	<2	0.19	1.2	12	18	46	4.27
YY27951		0.31	<0.001	0.4	1.20	20	<10	70	<0.5	<2	0.45	0.7	7	17	21	2.59
YY27952		0.38	0.007	2.9	1.02	70	<10	100	0.5	<2	0.29	2.1	7	20	14	4.04
YY27953		0.28	0.001	0.2	0.86	42	<10	100	<0.5	<2	0.24	0.7	16	16	38	4.17
YY27954		0.35	0.001	0.3	1.24	21	<10	60	<0.5	<2	0.43	0.7	13	19	36	3.30
YY27955		0.24	<0.001	0.3	0.81	6	<10	30	<0.5	<2	0.50	<0.5	4	8	14	1.12
YY27956		0.29	<0.001	0.5	1.07	17	<10	50	<0.5	<2	0.65	1.0	8	13	14	2.19
YY27957		0.33	0.005	2.5	1.35	53	<10	60	0.6	<2	0.29	1.7	18	24	47	5.05
YY27958		0.27	0.003	0.7	1.47	36	<10	120	0.5	<2	0.41	0.6	18	27	41	4.44
YY27959		0.37	0.001	0.7	1.63	33	<10	60	0.6	2	0.25	0.8	16	30	28	4.10
YY27960		0.34	<0.001	<0.2	1.82	18	<10	70	<0.5	<2	0.33	<0.5	18	35	17	3.80
YY27961		0.47	0.002	0.6	1.72	37	<10	50	0.5	2	1.20	0.5	22	33	46	4.40
YY27962		0.31	0.001	0.4	1.96	27	<10	60	0.5	<2	0.77	<0.5	18	36	42	3.87
YY27963		0.25	<0.001	<0.2	1.55	14	<10	80	<0.5	<2	0.75	0.6	17	27	22	2.91
YY27964		0.34	<0.001	0.2	1.66	21	<10	70	<0.5	<2	0.39	<0.5	15	25	18	3.47
YY27965		0.28	<0.001	<0.2	1.52	13	<10	60	0.5	<2	0.43	<0.5	11	20	16	2.54
YY27966		0.24	<0.001	<0.2	1.82	12	<10	40	<0.5	<2	0.95	<0.5	15	28	37	3.10
YY27967		0.34	<0.001	<0.2	1.77	16	<10	70	<0.5	<2	0.33	0.7	16	25	20	3.25
YY27968		0.30	<0.001	0.2	1.87	16	<10	50	<0.5	<2	0.18	0.5	15	35	15	3.58
YY27969		0.29	<0.001	<0.2	1.73	13	<10	50	<0.5	<2	0.15	0.5	15	32	16	3.42
YY27970		0.32	<0.001	0.3	1.70	23	<10	60	<0.5	<2	0.54	<0.5	9	25	27	3.71

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CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27931		<10	<1	0.05	30	10	0.37	310	12	0.01	66	1400	34	0.02	12	4
YY27932		<10	<1	0.07	30	<10	0.19	438	21	0.01	100	1870	57	0.07	26	4
YY27933		<10	<1	0.05	30	<10	0.61	474	9	0.01	68	1270	118	0.09	13	3
YY27934		<10	<1	0.07	30	<10	0.32	850	35	0.01	133	1810	51	0.10	29	3
YY27935		<10	<1	0.05	20	10	0.30	264	3	0.01	44	1130	28	0.03	5	1
YY27936		<10	<1	0.04	30	10	0.25	235	4	0.01	55	1180	25	0.02	7	2
YY27937		<10	<1	0.04	30	10	0.34	210	4	0.01	59	1200	21	0.03	6	1
YY27938		<10	<1	0.05	20	10	0.31	173	2	0.02	34	920	18	0.03	3	1
YY27939		<10	<1	0.07	30	10	0.61	329	3	0.01	51	1340	26	0.02	3	3
YY27940		<10	<1	0.05	30	<10	0.13	130	3	0.01	49	1130	20	0.02	5	2
YY27941		<10	<1	0.03	10	10	0.40	821	1	0.02	27	1690	13	0.06	<2	3
YY27942		<10	<1	0.04	40	<10	0.04	151	3	0.01	42	1210	15	0.02	4	1
YY27943		<10	<1	0.04	30	10	0.25	316	3	0.01	57	1200	29	0.04	4	2
YY27944		<10	<1	0.04	20	10	0.47	424	3	0.01	35	1180	45	0.06	4	2
YY27945		<10	<1	0.04	40	30	0.99	399	1	0.01	36	780	22	0.04	<2	3
YY27946		<10	<1	0.04	20	10	0.44	320	2	0.01	28	1050	116	0.04	3	3
YY27947		<10	<1	0.03	30	10	0.48	695	3	0.01	30	1020	100	0.04	2	2
YY27948		<10	<1	0.03	20	10	0.51	460	1	0.02	25	910	34	0.06	2	2
YY27949		<10	<1	0.04	20	10	0.40	718	4	0.01	46	1190	272	0.04	5	2
YY27950		<10	<1	0.03	20	10	0.37	653	6	0.01	50	1100	254	0.03	5	1
YY27951		<10	<1	0.03	20	10	0.56	369	1	0.02	24	950	83	0.04	2	2
YY27952		<10	<1	0.02	20	10	0.23	1130	2	0.01	23	970	842	0.05	5	2
YY27953		<10	<1	0.03	20	10	0.29	1105	5	0.01	39	1230	227	0.04	5	1
YY27954		<10	<1	0.03	20	20	0.62	582	2	0.01	34	920	163	0.04	2	2
YY27955		<10	<1	0.02	10	10	0.29	135	<1	0.04	10	420	37	0.04	<2	1
YY27956		<10	<1	0.03	10	10	0.53	688	1	0.03	17	800	186	0.06	<2	1
YY27957		<10	<1	0.04	40	20	0.69	763	4	0.01	60	910	454	0.03	6	3
YY27958		<10	<1	0.03	20	20	0.85	750	3	0.01	47	920	259	0.04	3	3
YY27959		<10	<1	0.03	20	20	0.93	919	2	0.01	40	770	289	0.03	3	3
YY27960		10	<1	0.03	20	30	1.05	1210	1	0.01	30	980	84	0.05	2	2
YY27961		<10	<1	0.03	20	30	1.15	681	1	0.01	48	1120	133	0.04	3	4
YY27962		10	<1	0.03	20	30	1.40	551	1	0.01	42	1030	104	0.04	2	4
YY27963		<10	<1	0.04	10	20	0.78	1045	1	0.02	25	1190	71	0.09	2	2
YY27964		<10	<1	0.03	20	20	0.90	881	1	0.01	26	990	182	0.06	2	3
YY27965		<10	<1	0.03	20	20	0.61	810	<1	0.02	19	870	62	0.06	<2	2
YY27966		<10	<1	0.03	20	30	1.19	506	<1	0.01	29	910	45	0.08	<2	3
YY27967		<10	<1	0.03	30	30	0.97	712	1	0.01	29	1120	56	0.05	<2	3
YY27968		10	<1	0.04	20	30	1.04	698	1	0.01	30	820	50	0.05	<2	2
YY27969		10	<1	0.03	20	30	0.96	831	1	0.01	29	950	66	0.04	<2	2
YY27970		<10	<1	0.03	20	20	0.92	380	1	0.01	30	900	59	0.06	2	3

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method Analyte Units LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY27931		25	<20	0.01	<10	<10	44	<10	275
YY27932		33	<20	<0.01	<10	<10	65	<10	401
YY27933		40	<20	0.01	<10	<10	34	<10	422
YY27934		46	<20	0.01	<10	<10	109	<10	310
YY27935		18	<20	0.01	<10	<10	26	<10	213
YY27936		25	<20	0.01	<10	<10	21	<10	247
YY27937		34	<20	<0.01	<10	<10	22	<10	285
YY27938		16	<20	0.01	<10	<10	27	<10	149
YY27939		34	<20	0.05	<10	<10	39	<10	192
YY27940		25	<20	<0.01	<10	<10	13	<10	255
YY27941		31	<20	0.01	<10	<10	33	<10	73
YY27942		27	<20	<0.01	<10	<10	20	<10	218
YY27943		33	<20	0.01	<10	<10	20	<10	271
YY27944		33	<20	0.01	<10	<10	23	<10	128
YY27945		40	<20	0.01	<10	<10	18	<10	94
YY27946		27	<20	0.01	<10	<10	23	<10	240
YY27947		15	<20	0.01	<10	<10	25	<10	181
YY27948		33	<20	0.01	<10	<10	18	<10	104
YY27949		16	<20	0.01	<10	<10	28	<10	346
YY27950		13	<20	0.01	<10	<10	25	<10	297
YY27951		18	<20	0.02	<10	<10	22	<10	142
YY27952		12	<20	0.01	<10	<10	30	<10	339
YY27953		15	<20	0.01	<10	<10	30	<10	231
YY27954		23	<20	0.01	<10	<10	19	<10	153
YY27955		21	<20	0.02	<10	<10	11	<10	48
YY27956		20	<20	0.02	<10	<10	17	<10	149
YY27957		18	<20	0.01	<10	<10	25	<10	466
YY27958		17	<20	0.01	<10	<10	31	<10	247
YY27959		15	<20	0.01	<10	<10	25	<10	237
YY27960		22	<20	0.02	<10	<10	31	<10	96
YY27961		58	<20	0.01	<10	<10	21	<10	167
YY27962		33	<20	0.01	<10	<10	29	<10	121
YY27963		40	<20	0.01	<10	<10	21	<10	112
YY27964		24	<20	0.01	<10	<10	22	<10	109
YY27965		27	<20	0.02	<10	<10	19	<10	69
YY27966		50	<20	0.01	<10	<10	18	<10	84
YY27967		25	<20	0.01	<10	<10	18	<10	133
YY27968		13	<20	0.01	<10	<10	29	<10	103
YY27969		12	<20	0.01	<10	<10	23	<10	115
YY27970		35	<20	0.01	<10	<10	20	<10	133

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
YY27971		0.43	0.002	0.6	1.79	32	<10	70	0.6	<2	0.30	0.7	18	32	46	4.25
YY27972		0.42	0.002	0.4	1.54	29	<10	50	0.5	<2	0.52	0.7	11	25	42	3.44
YY27973		0.35	0.001	0.5	1.32	17	<10	40	<0.5	<2	0.68	0.6	9	21	34	2.68
YY27974		0.36	0.001	0.2	1.83	33	<10	60	0.5	<2	0.27	0.6	12	30	27	4.15
YY27975		0.37	<0.001	0.2	2.07	11	<10	40	0.6	<2	1.06	<0.5	18	34	37	3.93
YY27976		0.39	<0.001	<0.2	1.62	4	<10	50	<0.5	<2	0.18	<0.5	11	23	21	2.93
YY27977		0.46	0.001	0.6	1.13	25	<10	70	0.5	2	0.16	2.4	11	26	32	3.01
YY27978		0.39	0.001	0.6	1.31	33	<10	140	0.6	<2	0.42	2.3	10	28	26	3.87
YY27979		0.37	0.001	0.5	1.14	28	<10	100	<0.5	<2	0.34	0.9	8	19	25	2.91
YY27980		0.29	0.005	0.9	1.31	49	<10	90	0.6	<2	0.15	2.0	15	24	44	5.44
YY27981		0.41	0.003	0.8	1.22	43	<10	90	0.5	<2	0.20	1.4	10	24	28	4.12
YY27982		0.35	0.004	1.0	1.17	48	<10	110	0.5	<2	0.39	1.2	10	24	25	3.61
YY27983		0.31	<0.001	0.3	0.89	21	<10	70	<0.5	<2	0.18	0.9	6	16	15	2.34
YY27984		0.42	0.002	<0.2	1.08	30	<10	90	<0.5	<2	0.25	<0.5	9	21	21	3.71
YY27985		0.43	0.001	0.3	1.28	33	<10	130	0.5	<2	0.48	0.7	9	24	19	3.86
YY27986		0.41	0.002	0.3	1.38	44	<10	130	0.6	<2	0.21	0.5	12	24	31	4.06
YY27987		0.45	0.006	1.3	0.89	79	<10	120	<0.5	<2	2.72	1.5	10	15	35	3.70
YY27988		0.25	0.001	0.3	1.70	32	<10	100	0.7	<2	1.00	1.1	13	23	24	4.24
YY27989		0.27	0.003	1.1	1.14	63	<10	150	0.6	<2	2.41	2.2	13	21	39	5.16
YY27990		0.31	0.001	0.7	1.12	46	<10	90	0.5	<2	0.29	1.6	13	20	35	4.13
YY27991		0.27	0.001	0.2	1.09	25	<10	60	<0.5	<2	0.08	0.9	7	19	19	2.44
YY27992		0.34	0.005	1.0	1.08	55	<10	100	0.5	<2	0.95	2.9	13	24	62	4.28
YY27993		0.39	0.004	0.5	0.79	24	<10	110	<0.5	<2	3.81	4.6	12	17	23	2.94
YY27994		0.40	0.002	0.7	1.20	23	<10	180	<0.5	<2	1.85	3.0	12	31	26	2.40
YY27995		0.25	<0.001	0.2	0.83	9	<10	100	<0.5	<2	0.62	0.6	5	10	10	1.31
YY27996		0.32	0.002	0.7	1.10	27	<10	130	<0.5	<2	0.73	0.9	8	22	29	2.96
YY27997		0.36	0.005	1.5	1.68	10	<10	200	<0.5	<2	0.40	2.3	11	41	29	2.40
YY27998		0.41	0.004	0.9	1.03	31	<10	80	<0.5	<2	0.71	1.0	10	21	35	3.09
YY27999		0.33	0.005	1.0	0.85	47	<10	190	<0.5	<2	1.36	1.3	12	17	43	3.26
YY28000		0.32	0.003	0.4	1.69	21	<10	70	0.5	<2	1.23	0.6	15	30	38	3.70
YY11902		0.28	0.002	<0.2	2.54	8	<10	40	0.7	<2	0.49	<0.5	23	37	40	4.34
YY11903		0.33	0.001	<0.2	2.51	9	<10	30	0.6	<2	0.47	<0.5	23	38	36	4.33
YY11904		0.33	0.001	<0.2	2.50	9	<10	40	0.7	<2	0.42	<0.5	25	39	37	4.51
YY11905		0.48	0.001	<0.2	2.53	9	<10	40	0.7	<2	0.33	<0.5	21	37	36	4.78
YY11906		0.38	0.001	<0.2	2.47	12	<10	70	0.9	<2	0.37	<0.5	28	35	44	4.63
YY11907		0.44	0.001	<0.2	1.98	15	<10	50	0.7	<2	0.64	<0.5	23	36	42	4.36
YY11908		0.27	<0.001	<0.2	1.82	12	<10	40	0.6	<2	0.60	<0.5	18	33	30	4.16
YY11909		0.34	0.001	0.4	1.19	13	<10	160	<0.5	<2	0.92	3.9	11	20	25	1.97
YY11910		0.22	0.001	0.4	1.03	22	<10	150	<0.5	<2	0.94	4.9	9	19	27	1.99
YY11911		0.33	0.001	0.5	1.12	20	<10	200	<0.5	<2	0.77	1.6	9	19	19	2.54

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY27971		<10	<1	0.04	30	30	1.13	681	2	0.01	52	890	141	0.02	3	4
YY27972		<10	<1	0.04	20	20	0.87	446	1	0.01	33	1040	108	0.05	3	3
YY27973		<10	<1	0.03	20	20	0.65	424	1	0.03	25	890	98	0.06	<2	2
YY27974		<10	<1	0.03	30	30	1.03	1110	2	0.01	35	710	68	0.04	2	5
YY27975		10	<1	0.04	30	40	1.37	538	1	0.01	41	840	36	0.05	2	4
YY27976		<10	<1	0.03	30	30	0.81	324	1	0.02	28	640	16	0.02	<2	2
YY27977		<10	<1	0.03	20	20	0.61	507	4	<0.01	43	800	268	0.01	3	2
YY27978		<10	<1	0.04	20	10	0.76	735	3	0.01	41	580	100	0.02	3	4
YY27979		<10	<1	0.03	20	10	0.54	373	2	0.02	33	800	136	0.03	3	2
YY27980		<10	<1	0.03	20	10	0.56	1485	5	<0.01	59	830	376	0.03	6	2
YY27981		<10	<1	0.03	20	10	0.54	647	4	<0.01	44	890	223	0.04	3	2
YY27982		<10	<1	0.03	20	10	0.58	501	3	<0.01	39	790	223	0.04	5	2
YY27983		<10	<1	0.03	10	10	0.31	423	2	0.01	21	820	103	0.04	<2	<1
YY27984		<10	<1	0.03	20	10	0.42	689	3	<0.01	29	1030	80	0.04	2	1
YY27985		<10	<1	0.03	20	10	0.47	713	2	<0.01	29	1060	82	0.05	2	2
YY27986		<10	<1	0.03	20	10	0.61	613	3	<0.01	45	760	71	0.03	5	3
YY27987		<10	<1	0.03	20	10	1.64	881	4	0.01	42	970	255	0.05	7	2
YY27988		<10	<1	0.03	20	20	0.95	900	3	<0.01	38	1040	61	0.04	3	2
YY27989		<10	<1	0.03	20	10	1.57	1120	3	<0.01	56	1210	136	0.05	5	2
YY27990		<10	<1	0.04	20	10	0.50	764	5	<0.01	44	920	156	0.04	6	3
YY27991		<10	<1	0.03	10	10	0.42	377	3	<0.01	24	830	72	0.03	3	1
YY27992		<10	<1	0.04	20	10	0.95	541	5	<0.01	65	680	217	0.03	7	3
YY27993		<10	<1	0.03	20	10	2.42	999	4	0.01	46	810	104	0.05	3	2
YY27994		<10	<1	0.03	20	10	1.51	188	3	<0.01	42	1000	181	0.29	2	3
YY27995		<10	<1	0.02	10	10	0.25	140	1	0.02	13	390	46	0.08	<2	1
YY27996		<10	<1	0.03	20	10	0.74	220	3	<0.01	37	720	89	0.04	3	2
YY27997		<10	<1	0.03	20	30	1.15	82	1	<0.01	38	960	147	0.14	<2	4
YY27998		<10	<1	0.03	20	10	0.80	353	3	<0.01	39	750	180	0.03	3	2
YY27999		<10	<1	0.03	20	10	0.98	380	5	<0.01	53	1130	145	0.03	8	2
YY28000		10	<1	0.03	30	30	1.38	441	2	<0.01	43	920	80	0.04	4	3
YY11902		10	<1	0.03	40	50	1.73	311	1	<0.01	45	490	38	0.04	<2	3
YY11903		10	<1	0.03	50	50	1.77	323	1	<0.01	46	680	25	0.03	2	3
YY11904		10	<1	0.03	50	50	1.72	622	1	<0.01	46	480	30	0.03	<2	4
YY11905		10	<1	0.03	50	50	1.72	932	1	<0.01	48	500	29	0.02	2	5
YY11906		10	<1	0.05	30	40	1.51	572	1	<0.01	46	390	24	0.02	<2	3
YY11907		10	<1	0.03	40	30	1.26	609	2	<0.01	46	680	23	0.03	3	3
YY11908		<10	<1	0.02	40	30	1.13	543	2	<0.01	43	520	19	0.04	2	3
YY11909		<10	<1	0.02	20	20	0.82	94	3	0.01	33	830	96	0.33	2	3
YY11910		<10	<1	0.02	10	10	0.68	73	4	0.01	30	840	101	0.69	<2	2
YY11911		<10	<1	0.03	20	10	0.64	137	2	0.01	27	870	86	0.11	<2	2

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Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method Analyte Units LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY27971		16	<20	0.02	<10	<10	29	<10	204
YY27972		30	<20	0.01	<10	<10	21	<10	193
YY27973		37	<20	0.02	<10	<10	20	<10	164
YY27974		18	<20	0.01	<10	<10	24	<10	132
YY27975		44	<20	0.01	<10	<10	21	<10	106
YY27976		13	<20	0.02	<10	<10	21	<10	60
YY27977		11	<20	0.01	<10	<10	27	<10	250
YY27978		16	<20	0.02	<10	<10	31	<10	714
YY27979		15	<20	0.01	<10	<10	23	<10	253
YY27980		11	<20	0.01	<10	<10	28	<10	410
YY27981		10	<20	0.01	<10	<10	27	<10	398
YY27982		17	<20	0.02	<10	<10	27	<10	284
YY27983		12	<20	0.01	<10	<10	20	<10	182
YY27984		12	<20	0.01	<10	<10	27	<10	219
YY27985		13	<20	0.02	<10	<10	31	<10	212
YY27986		11	<20	0.01	<10	<10	30	<10	179
YY27987		26	<20	0.01	<10	<10	23	<10	268
YY27988		16	<20	0.02	<10	<10	29	<10	182
YY27989		19	<20	0.01	<10	<10	34	<10	352
YY27990		13	<20	0.01	<10	<10	24	<10	321
YY27991		7	<20	0.01	<10	<10	25	<10	127
YY27992		21	<20	0.02	<10	<10	28	<10	494
YY27993		40	<20	0.01	<10	<10	23	<10	448
YY27994		32	<20	0.03	<10	<10	32	<10	429
YY27995		25	<20	0.02	<10	<10	16	<10	110
YY27996		18	<20	0.01	<10	<10	24	<10	310
YY27997		24	<20	0.02	<10	<10	25	<10	188
YY27998		17	<20	0.02	<10	<10	24	<10	314
YY27999		35	<20	0.01	<10	<10	20	<10	347
YY28000		41	<20	0.01	<10	<10	21	<10	184
YY11902		25	<20	<0.01	<10	<10	19	<10	202
YY11903		25	20	0.01	<10	<10	21	<10	153
YY11904		26	<20	<0.01	<10	<10	20	<10	152
YY11905		20	20	<0.01	<10	<10	20	<10	215
YY11906		24	<20	<0.01	<10	<10	18	<10	94
YY11907		30	<20	0.01	<10	<10	21	<10	103
YY11908		29	<20	<0.01	<10	<10	17	<10	92
YY11909		31	<20	0.02	<10	<10	19	<10	371
YY11910		30	<20	0.02	<10	<10	22	<10	395
YY11911		26	<20	0.02	<10	<10	20	<10	394

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

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
YY11912		0.39	0.001	0.6	1.00	19	<10	220	<0.5	<2	2.35	11.0	7	24	29	2.06
YY11913		0.38	0.006	3.2	1.06	31	<10	360	<0.5	<2	0.94	3.3	11	26	49	2.68
YY11914		0.27	<0.001	0.2	0.98	15	<10	80	<0.5	<2	0.19	1.2	4	13	10	1.65
YY11915		0.29	0.005	1.6	1.10	71	<10	130	0.5	<2	0.35	1.6	10	25	33	4.21
YY11916		0.31	<0.001	<0.2	0.68	16	<10	80	<0.5	<2	0.12	0.5	4	13	7	1.72
YY11917		0.29	0.004	1.2	1.15	78	<10	150	0.5	<2	0.49	1.5	11	20	37	4.71
YY11918		0.27	0.001	0.8	1.08	51	<10	100	0.5	<2	0.25	1.3	7	25	22	3.53
YY11919		0.32	0.003	0.6	0.41	25	<10	80	<0.5	2	0.14	1.7	19	8	98	5.14
YY11920		0.33	0.005	0.6	0.56	18	<10	90	<0.5	<2	0.18	1.6	16	9	90	4.29
YY11921		0.32	0.002	0.4	1.03	20	<10	110	<0.5	<2	0.37	0.6	12	29	48	3.60
YY11922		0.26	<0.001	0.6	1.34	42	<10	250	0.7	<2	0.79	0.7	20	22	48	4.24
YY11923		0.30	<0.001	0.3	1.66	13	<10	140	0.7	<2	0.37	<0.5	19	30	42	4.57
YY11924		0.37	0.001	<0.2	1.82	19	<10	50	0.7	<2	1.04	<0.5	23	34	43	4.44
YY11925		0.38	0.002	<0.2	1.67	17	<10	30	0.5	<2	2.46	<0.5	21	35	40	4.03
YY11926		0.44	0.001	<0.2	2.14	8	<10	40	0.6	<2	0.56	<0.5	20	32	37	4.20
YY11927		0.37	<0.001	<0.2	2.07	6	<10	40	0.6	<2	0.61	<0.5	17	31	34	3.81
YY11928		0.33	<0.001	<0.2	2.28	6	<10	70	0.7	<2	0.43	<0.5	19	31	37	3.70
YY11929		0.27	0.002	<0.2	2.40	8	<10	30	0.6	<2	0.59	<0.5	22	38	36	4.26
YY11930		0.39	0.002	<0.2	2.59	8	<10	40	0.7	<2	0.55	<0.5	24	38	41	4.53
YY11931		0.27	<0.001	<0.2	1.41	19	<10	50	0.5	<2	0.63	<0.5	12	28	25	2.97
YY11932		0.43	0.001	<0.2	2.31	4	<10	40	0.5	<2	0.47	<0.5	15	31	29	3.85
YY11933		0.38	<0.001	<0.2	1.94	3	<10	40	0.6	<2	0.68	<0.5	14	26	28	3.25
YY11934		0.38	0.002	<0.2	2.59	9	<10	40	0.8	<2	0.34	<0.5	29	37	46	4.60
YY11935		0.33	0.002	<0.2	2.60	9	<10	40	0.8	<2	0.35	<0.5	30	37	46	4.59
YY11936		0.44	0.001	<0.2	2.36	8	<10	40	0.8	2	0.70	<0.5	25	36	41	4.50
YY11937		0.66	<0.001	<0.2	2.24	7	<10	30	0.6	<2	1.79	<0.5	23	36	37	4.35
YY11938		0.49	0.002	0.2	1.82	18	<10	40	0.6	<2	1.86	<0.5	24	40	41	4.40
YY11939		0.54	<0.001	<0.2	2.19	5	<10	50	0.8	<2	0.50	<0.5	25	33	51	4.50
YY11940		0.32	<0.001	0.2	1.29	17	<10	70	0.6	<2	0.85	<0.5	30	24	60	4.83
YY33685		0.24	<0.001	<0.2	1.15	31	<10	90	<0.5	<2	0.30	0.7	9	24	20	3.42
YY33686		0.27	<0.001	<0.2	1.48	7	<10	70	0.6	<2	1.87	<0.5	14	22	30	3.89
YY33687		0.22	<0.001	0.3	1.42	18	<10	80	0.6	<2	0.56	0.5	10	18	24	3.27
YY33688		0.24	0.002	<0.2	1.27	26	<10	70	0.5	<2	0.19	0.6	11	26	20	3.13
YY11982		0.35	<0.001	<0.2	1.75	9	<10	40	0.5	<2	0.72	<0.5	12	30	30	3.04
YY11983		0.52	<0.001	0.3	1.78	19	<10	40	<0.5	<2	1.35	0.8	15	35	39	3.77
YY11984		0.32	<0.001	0.3	1.57	12	<10	50	<0.5	<2	0.62	<0.5	11	25	31	2.87
YY11985		0.32	<0.001	0.2	0.99	12	<10	30	<0.5	<2	0.89	0.6	6	13	28	1.59
YY11986		0.39	0.003	0.5	1.43	23	<10	50	<0.5	<2	3.02	1.1	14	29	36	3.55
YY11987		0.33	<0.001	<0.2	1.32	17	<10	80	0.5	2	0.65	0.9	13	24	48	3.08
YY11988		0.41	<0.001	4.3	1.56	20	<10	80	<0.5	<2	0.57	0.5	9	28	27	3.18

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY11912		<10	<1	0.03	20	10	1.49	91	5	<0.01	36	960	175	0.93	2	3
YY11913		<10	<1	0.03	20	10	0.88	195	4	<0.01	56	1020	1115	0.11	4	3
YY11914		<10	<1	0.04	10	10	0.24	234	3	0.01	14	880	43	0.07	<2	<1
YY11915		<10	<1	0.03	20	10	0.50	597	4	<0.01	51	930	333	0.04	5	3
YY11916		<10	<1	0.04	20	10	0.21	240	3	<0.01	13	520	33	0.03	<2	<1
YY11917		<10	<1	0.04	20	10	0.50	532	5	<0.01	53	1130	199	0.05	8	3
YY11918		<10	<1	0.04	20	10	0.41	356	3	<0.01	39	870	216	0.04	5	2
YY11919		<10	1	0.04	30	<10	0.18	290	16	<0.01	88	1320	38	0.03	7	2
YY11920		<10	1	0.03	40	10	0.26	248	5	<0.01	69	1260	35	0.01	4	1
YY11921		<10	<1	0.03	30	10	0.56	256	4	<0.01	50	1200	43	0.03	4	2
YY11922		<10	<1	0.05	30	20	0.79	814	8	0.01	49	780	82	0.03	4	3
YY11923		<10	1	0.05	30	20	1.01	480	4	<0.01	43	660	68	0.03	3	3
YY11924		10	<1	0.04	40	30	1.20	699	3	<0.01	48	710	25	0.03	3	4
YY11925		<10	<1	0.03	40	30	1.46	550	3	<0.01	50	920	23	0.04	4	3
YY11926		10	<1	0.03	50	40	1.39	420	1	<0.01	42	600	16	0.03	3	3
YY11927		10	1	0.03	50	40	1.36	329	1	0.01	38	580	19	0.03	3	3
YY11928		10	<1	0.04	30	40	1.34	324	1	0.01	36	380	23	0.02	2	3
YY11929		10	<1	0.03	50	50	1.66	262	1	<0.01	45	520	29	0.03	4	2
YY11930		10	1	0.04	50	60	1.73	375	1	<0.01	46	550	34	0.02	4	3
YY11931		<10	<1	0.03	20	20	0.90	544	2	0.01	32	720	17	0.04	2	2
YY11932		10	<1	0.04	30	40	1.62	229	<1	<0.01	38	1020	14	0.02	2	3
YY11933		10	<1	0.04	20	30	1.22	216	1	0.01	31	880	15	0.04	2	2
YY11934		10	<1	0.03	60	50	1.76	388	1	<0.01	46	710	49	0.02	3	3
YY11935		10	<1	0.03	50	60	1.76	406	1	<0.01	46	550	29	0.02	2	3
YY11936		10	<1	0.04	50	50	1.67	416	1	<0.01	46	580	21	0.02	4	3
YY11937		10	<1	0.04	50	50	1.63	461	1	<0.01	44	690	18	0.02	2	3
YY11938		<10	<1	0.04	50	40	1.44	687	3	<0.01	52	900	22	0.04	3	3
YY11939		10	<1	0.04	50	40	1.37	526	1	<0.01	42	510	24	0.03	2	3
YY11940		<10	1	0.05	40	20	0.85	1110	3	<0.01	48	870	61	0.04	3	3
YY33685		<10	1	0.04	20	10	0.45	605	3	<0.01	33	740	67	0.03	3	1
YY33686		<10	<1	0.03	40	30	0.91	774	1	<0.01	34	700	23	0.03	2	4
YY33687		<10	<1	0.04	30	20	0.58	458	2	0.01	27	930	96	0.04	2	2
YY33688		<10	<1	0.03	20	10	0.45	504	2	<0.01	35	570	77	0.02	3	1
YY11982		10	<1	0.03	20	30	1.16	310	1	0.01	31	740	37	0.04	2	3
YY11983		<10	1	0.03	20	30	1.44	882	1	<0.01	41	810	75	0.04	3	4
YY11984		<10	<1	0.03	20	20	0.91	450	1	0.01	27	860	58	0.06	<2	3
YY11985		<10	<1	0.03	10	10	0.39	286	1	0.03	14	960	55	0.09	<2	1
YY11986		<10	1	0.03	20	30	2.50	723	2	<0.01	39	810	149	0.02	3	3
YY11987		<10	<1	0.04	20	20	0.74	1880	2	<0.01	29	1000	45	0.06	3	3
YY11988		<10	<1	0.04	20	20	0.85	475	2	0.01	31	730	125	0.05	3	3

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method Analyte Units LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
YY11912		41	<20	0.01	<10	<10	20	<10	857
YY11913		22	<20	0.01	<10	<10	27	<10	675
YY11914		13	<20	0.01	<10	<10	24	<10	131
YY11915		14	<20	0.02	<10	<10	32	<10	397
YY11916		9	<20	0.01	<10	<10	26	<10	109
YY11917		14	<20	0.01	<10	<10	31	<10	507
YY11918		10	<20	0.01	<10	<10	26	<10	452
YY11919		18	<20	<0.01	<10	<10	15	<10	339
YY11920		20	<20	<0.01	<10	<10	14	<10	376
YY11921		22	<20	0.03	<10	<10	28	<10	232
YY11922		33	<20	0.01	<10	<10	23	<10	312
YY11923		19	<20	<0.01	<10	<10	21	<10	286
YY11924		33	<20	<0.01	<10	<10	18	<10	111
YY11925		83	<20	0.01	<10	<10	18	<10	111
YY11926		28	20	0.01	<10	<10	18	<10	76
YY11927		31	<20	0.01	<10	<10	18	<10	77
YY11928		26	<20	0.01	<10	<10	18	<10	114
YY11929		28	20	0.01	<10	<10	20	<10	161
YY11930		27	20	<0.01	<10	<10	20	<10	197
YY11931		32	<20	0.01	<10	<10	19	<10	79
YY11932		26	<20	0.01	<10	<10	17	<10	74
YY11933		35	<20	0.01	<10	<10	14	<10	61
YY11934		20	20	<0.01	<10	<10	20	<10	184
YY11935		21	20	0.01	<10	<10	20	<10	131
YY11936		32	20	0.01	<10	<10	18	<10	89
YY11937		67	20	0.01	<10	<10	19	<10	85
YY11938		65	20	<0.01	<10	<10	20	<10	104
YY11939		28	<20	0.01	<10	<10	20	<10	91
YY11940		33	<20	<0.01	<10	<10	18	<10	210
YY33685		16	<20	0.02	<10	<10	30	<10	203
YY33686		70	<20	0.01	<10	<10	17	<10	82
YY33687		28	<20	0.01	<10	<10	21	<10	155
YY33688		12	<20	0.02	<10	<10	31	<10	202
YY11982		26	<20	0.01	<10	<10	20	<10	87
YY11983		47	<20	0.01	<10	<10	22	<10	154
YY11984		31	<20	0.01	<10	<10	21	<10	100
YY11985		43	<20	0.02	<10	<10	15	<10	129
YY11986		41	<20	0.01	<10	<10	24	<10	214
YY11987		39	<20	0.01	<10	<10	17	<10	159
YY11988		32	<20	0.01	<10	<10	24	<10	172

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
YY11989		0.27	<0.001	<0.2	1.46	14	<10	40	<0.5	<2	0.17	0.5	14	43	18	2.92
YY11990		0.34	<0.001	<0.2	1.61	10	<10	50	<0.5	<2	0.16	<0.5	8	29	13	2.77
YY09981		0.40	<0.001	0.7	1.03	51	<10	130	0.6	<2	1.07	1.1	20	18	52	4.23
YY09982		0.55	<0.001	0.5	1.30	53	<10	160	0.7	<2	0.74	0.7	20	23	41	4.01
YY09983		0.56	0.001	0.9	1.08	28	<10	110	0.7	<2	0.62	2.2	23	31	65	4.33
YY09984		0.49	0.003	1.5	0.52	64	<10	430	0.5	<2	1.03	2.2	14	11	56	3.15
YY09985		0.41	0.003	1.0	0.60	39	<10	430	<0.5	<2	0.66	1.7	9	8	41	2.38
YY09986		0.48	0.014	1.8	0.57	104	<10	160	<0.5	<2	1.99	2.9	10	10	56	3.22

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Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOD	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2	1
YY11989		<10	<1	0.03	20	20	0.83	623	1	0.01	34	760	48	0.03	2	1
YY11990		<10	<1	0.03	10	20	0.95	343	1	<0.01	23	1110	28	0.04	<2	2
YY09981		<10	<1	0.04	30	10	0.81	628	12	<0.01	64	1100	72	0.04	6	3
YY09982		<10	<1	0.04	30	20	1.02	730	9	<0.01	57	1080	83	0.03	4	4
YY09983		<10	<1	0.04	40	20	0.82	808	22	<0.01	87	1020	89	0.02	9	3
YY09984		<10	<1	0.04	30	10	0.64	424	22	<0.01	74	1150	160	0.06	30	2
YY09985		<10	<1	0.04	20	<10	0.31	305	11	0.01	49	920	102	0.02	18	2
YY09986		<10	<1	0.04	20	<10	1.04	329	9	<0.01	60	1110	243	0.06	14	2

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

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	1	20	0.01	10	10	1	10	2
YY11989		12	<20	0.02	<10	<10	27	<10	108
YY11990		13	<20	0.01	<10	<10	21	<10	80
YY09981		39	<20	0.01	<10	<10	21	<10	402
YY09982		29	<20	0.02	<10	<10	26	<10	355
YY09983		23	<20	0.01	<10	<10	35	<10	495
YY09984		39	<20	<0.01	<10	<10	27	<10	657
YY09985		23	<20	0.01	<10	<10	28	<10	461
YY09986		32	<20	0.01	<10	<10	25	<10	492

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Finalized Date: 5-OCT-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22221968

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

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

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

Applies to Method:	Au-ICP21	ME-ICP41

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12-DEC-2022
Account: F

CERTIFICATE WH22246602

Project: Groundhog

This report is for 49 samples of Rock submitted to our lab in Whitehorse, YT, Canada on 5-AUG-2022.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	MATT DUMALA SCOTT NEWMAN	STEVE ISRAEL LIZ SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
OA-HSUL10	Handling of High Sulphide Samples
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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Ag-OG46	Ore Grade Ag - Aqua Regia	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	
Pb-OG46	Ore Grade Pb - Aqua Regia	
Zn-OG46	Ore Grade Zn - Aqua Regia	
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM
Pb-VOL70	Pb by Titration	

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, Director, North Vancouver Operations

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22246602

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Ag-GRA21 Ag ppm 5	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
E813026		1.06		0.001	0.2	0.06	5	<10	170	<0.5	<2	1.66	<0.5	1	12	9
E813027		1.21		0.003	<0.2	0.01	42	<10	20	<0.5	<2	0.01	1.8	<1	8	4
E813028		1.09		0.039	>100	0.06	321	<10	30	<0.5	2	0.03	7.4	1	10	916
E813029		2.98		0.539	3.4	0.52	1525	<10	90	0.6	<2	0.11	6.5	4	31	291
E813030		3.78		0.010	0.4	0.08	88	<10	90	<0.5	2	14.9	<0.5	11	5	7
E813031		1.13		0.016	2.2	0.14	94	<10	250	<0.5	4	0.37	0.6	19	5	110
E813032		1.41		0.002	<0.2	0.03	4	<10	110	<0.5	<2	19.2	0.5	1	4	2
E813033		2.10		0.003	1.4	0.01	11	<10	70	<0.5	<2	14.9	360	6	1	101
E813034		3.29		0.004	9.5	0.02	19	<10	80	<0.5	<2	12.9	42.6	4	6	28
E813035		2.64		0.005	14.1	0.02	11	<10	80	<0.5	<2	11.5	67.4	5	4	30
E813036		1.91		<0.001	<0.2	0.46	3	<10	10	<0.5	3	2.18	0.8	6	<1	10
E813037		1.88		<0.001	0.4	0.08	12	<10	120	<0.5	<2	0.03	<0.5	1	12	4
E813038		1.59		0.010	>100	<0.01	90	<10	<10	<0.5	<2	0.29	25.6	<1	15	226
E813039		2.18		0.017	13.4	0.02	147	<10	40	<0.5	<2	4.96	>1000	7	3	1415
E814401		1.59		0.002	17.9	0.09	3	<10	90	<0.5	<2	8.1	38.5	9	10	250
E814402		2.28		<0.001	0.4	1.93	6	<10	10	<0.5	5	2.43	1.2	18	11	433
E814403		2.07		0.003	0.3	0.08	109	<10	70	<0.5	<2	0.05	<0.5	1	13	13
E814404		2.14		0.004	14.2	0.11	46	<10	110	<0.5	<2	0.04	0.9	<1	16	33
E814405		0.75		0.002	77.9	<0.01	69	<10	<10	<0.5	<2	0.07	2.6	<1	15	65
E814406		2.34		0.102	11.9	0.20	438	<10	140	<0.5	2	5.41	12.7	2	12	242
E814407		1.47		0.040	13.0	0.05	235	<10	60	<0.5	6	0.09	56.5	15	1	317
E814408		1.78		0.001	0.2	0.08	13	<10	60	<0.5	<2	0.28	1.6	1	11	14
E814409		1.42		0.078	4.1	0.19	471	<10	80	<0.5	<2	0.48	16.0	1	8	541
E814410		1.42		0.005	4.8	0.03	14	<10	10	<0.5	<2	3.92	329	<1	7	223
E814411		3.97	2120	0.015	>100	<0.01	189	<10	<10	<0.5	57	0.03	62.2	1	<1	2600
E814412		1.38		0.042	>100	0.02	279	<10	10	<0.5	20	0.49	>1000	<1	1	5260
E814413		1.57		0.001	3.5	0.04	6	<10	20	<0.5	<2	13.3	1.8	<1	9	14
E814414		1.88		0.053	>100	0.08	735	<10	10	<0.5	5	0.44	226	1	5	3360
D007237		0.70	2410	0.008	>100	0.01	3670	<10	70	<0.5	5	6.56	153.5	1	6	>10000
D007238		1.60	2430	0.035	>100	0.02	629	<10	70	<0.5	<2	4.24	547	<1	3	7110
D007239		2.49		0.007	55.2	0.02	55	<10	20	<0.5	<2	16.7	281	<1	1	602
D007240		1.52		0.011	>100	0.02	62	<10	20	<0.5	<2	16.1	285	<1	1	517
D007241		3.28		0.003	3.5	0.02	23	<10	30	<0.5	<2	17.2	43.8	<1	1	63
D007242		1.33		0.005	34.3	0.02	62	<10	20	<0.5	<2	12.9	394	<1	1	433
D007243		1.80		0.003	0.6	0.06	21	<10	40	<0.5	<2	18.7	1.5	1	1	14
D007244		1.41		0.031	0.9	0.06	61	<10	90	<0.5	<2	0.09	2.4	<1	9	10
D007245		1.81		0.003	3.6	0.02	9	<10	70	<0.5	<2	4.75	241	6	8	92
D007246		2.49		0.002	4.7	0.03	12	<10	100	<0.5	<2	3.23	165.0	3	7	100
D007247		3.64		0.005	9.6	0.05	59	<10	130	<0.5	<2	11.7	297	4	5	420
D007248		1.78		0.001	>100	0.03	85	<10	80	<0.5	<2	5.14	271	3	4	1060

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To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22246602

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
	Units	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
	LOD	0.01	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2
E813026		1.02	<10	<1	0.03	<10	<10	0.87	187	<1	<0.01	4	80	24	0.14	8
E813027		0.96	<10	<1	<0.01	<10	<10	<0.01	91	2	<0.01	4	30	121	<0.01	<2
E813028		4.34	<10	1	0.03	<10	<10	0.01	83	2	<0.01	9	90	>10000	0.29	208
E813029		6.63	10	<1	0.03	<10	<10	0.05	100	5	<0.01	18	570	175	0.07	24
E813030		1.68	<10	<1	0.01	<10	<10	8.41	1435	5	0.01	153	280	103	0.08	4
E813031		46.7	20	<1	0.06	<10	<10	0.31	1270	10	<0.01	58	100	276	0.34	14
E813032		1.91	<10	<1	0.01	<10	<10	10.50	2010	<1	0.02	3	10	16	0.23	<2
E813033		2.30	10	13	<0.01	<10	<10	8.53	1870	<1	0.01	2	10	9	2.97	7
E813034		2.25	<10	2	0.01	<10	<10	7.12	2070	<1	0.01	2	10	16	0.82	2
E813035		2.73	<10	3	0.01	<10	<10	5.96	2370	1	0.01	2	10	6	1.46	2
E813036		34.9	20	<1	<0.01	<10	<10	1.29	12500	<1	0.01	58	30	3	0.04	2
E813037		1.07	<10	<1	0.06	<10	<10	0.02	121	4	<0.01	5	60	4	0.05	3
E813038		1.48	<10	<1	<0.01	<10	<10	0.14	159	<1	<0.01	1	30	>10000	1.62	244
E813039		3.59	<10	5	0.01	<10	<10	2.89	481	1	<0.01	4	10	829	7.72	9
E814401		1.85	<10	3	0.06	<10	<10	0.54	486	<1	<0.01	13	220	>10000	2.36	33
E814402		35.0	<10	<1	0.01	<10	10	1.09	10950	1	<0.01	77	80	29	0.25	2
E814403		3.67	<10	<1	0.02	<10	<10	0.03	82	2	<0.01	4	230	33	0.02	12
E814404		1.27	<10	<1	0.06	<10	<10	0.02	168	6	<0.01	5	190	153	0.06	58
E814405		0.93	<10	<1	<0.01	<10	<10	0.04	85	<1	<0.01	1	<10	>10000	0.34	205
E814406		13.25	<10	1	0.02	<10	<10	3.17	347	12	<0.01	16	650	1530	0.06	49
E814407		48.3	<10	<1	0.01	<10	<10	0.19	245	10	<0.01	61	20	1230	0.10	32
E814408		2.32	<10	<1	0.01	<10	<10	0.14	135	3	<0.01	14	230	134	0.02	3
E814409		13.40	<10	1	0.04	<10	<10	0.10	270	2	<0.01	37	60	172	0.04	62
E814410		1.04	<10	1	0.02	<10	<10	2.30	298	1	<0.01	6	50	383	0.02	4
E814411		1.57	<10	1	<0.01	<10	<10	0.02	65	1	<0.01	2	<10	>10000	>10.0	2450
E814412		2.32	<10	5	0.01	10	<10	0.28	362	6	<0.01	17	50	>10000	3.57	782
E814413		0.89	<10	<1	0.02	10	<10	7.79	585	<1	<0.01	5	270	958	0.01	3
E814414		7.38	<10	1	0.04	<10	<10	0.26	241	5	<0.01	12	50	>10000	1.09	528
D007237		1.29	<10	15	0.01	<10	<10	3.76	312	<1	<0.01	3	10	2700	1.54	>10000
D007238		2.00	<10	4	0.01	<10	<10	2.40	614	1	<0.01	5	80	>10000	2.15	4820
D007239		0.73	<10	1	0.01	<10	<10	10.15	972	<1	0.01	5	30	>10000	0.19	158
D007240		0.73	<10	2	0.01	<10	<10	9.59	679	<1	0.01	6	20	>10000	0.50	199
D007241		0.64	<10	<1	0.01	<10	<10	10.20	1345	<1	<0.01	5	20	400	0.01	15
D007242		0.92	<10	2	0.01	<10	<10	7.86	1265	<1	<0.01	6	20	959	0.02	111
D007243		1.08	<10	<1	0.01	<10	<10	11.15	453	<1	0.01	15	20	35	0.01	<2
D007244		1.13	<10	<1	0.05	<10	<10	0.05	98	5	<0.01	5	40	93	0.06	8
D007245		1.31	20	5	0.01	<10	<10	2.66	737	<1	<0.01	3	10	40	3.90	15
D007246		1.19	20	3	0.01	<10	<10	1.77	544	1	<0.01	3	20	35	1.87	12
D007247		2.56	<10	1	0.02	<10	<10	6.56	779	<1	<0.01	6	30	2730	1.09	20
D007248		2.14	<10	1	0.01	<10	<10	2.90	580	1	<0.01	4	20	>10000	4.28	775

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VANCOUVER BC V6B 1L8

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22246602

Sample Description	Method / Analyte / Units / LOD	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Ag-OG46 Ag ppm 1	Cu-OG46 Cu % 0.001	Pb-OG46 Pb % 0.001	Zn-OG46 Zn % 0.001	Pb-VOL70 Pb % 0.01
E813026		<1	152	<20	<0.01	<10	<10	6	<10	28					
E813027		<1	1	<20	<0.01	<10	<10	1	<10	131					
E813028		<1	14	<20	<0.01	<10	10	6	<10	1590	150		11.30		
E813029		1	12	<20	<0.01	<10	<10	33	<10	279					
E813030		1	160	<20	<0.01	<10	<10	12	<10	82					
E813031		2	1	<20	<0.01	<10	10	25	<10	118					
E813032		<1	150	<20	<0.01	<10	<10	8	<10	132					
E813033		<1	113	<20	<0.01	<10	<10	6	<10	>10000				7.62	
E813034		<1	69	<20	<0.01	<10	<10	6	<10	>10000				2.03	
E813035		<1	78	<20	<0.01	<10	<10	6	<10	>10000				3.18	
E813036		2	69	<20	<0.01	<10	<10	4	<10	70					
E813037		<1	7	<20	<0.01	<10	<10	6	<10	42					
E813038		<1	4	<20	<0.01	<10	<10	2	<10	2320	249		7.96		
E813039		<1	40	<20	<0.01	<10	<10	2	<10	>10000				23.6	
E814401		1	505	<20	<0.01	<10	<10	4	<10	>10000			1.610	1.850	
E814402		3	74	<20	0.01	<10	<10	14	<10	295					
E814403		<1	4	<20	<0.01	<10	<10	11	<10	40					
E814404		<1	11	<20	<0.01	<10	<10	10	<10	93					
E814405		<1	2	<20	<0.01	<10	<10	2	<10	102			2.07		
E814406		2	37	<20	<0.01	<10	<10	28	<10	2200					
E814407		1	<1	<20	<0.01	<10	30	22	<10	>10000				1.310	
E814408		<1	6	<20	<0.01	<10	<10	12	<10	360					
E814409		1	1	<20	<0.01	<10	<10	4	<10	5530					
E814410		<1	12	<20	<0.01	<10	<10	1	<10	>10000				4.03	
E814411		<1	6	<20	<0.01	<10	<10	<1	<10	4540	>1500		>20.0		78.57
E814412		<1	8	<20	<0.01	<10	<10	<1	<10	>10000	755		>20.0	24.7	29.20
E814413		1	71	<20	<0.01	<10	<10	4	<10	385					
E814414		<1	5	<20	<0.01	<10	10	1	<10	>10000	234		11.70	3.19	
D007237		<1	35	<20	<0.01	<10	<10	2	<10	7520	>1500	7.76			
D007238		<1	67	<20	<0.01	<10	<10	2	<10	>10000	>1500		>20.0	6.33	21.32
D007239		<1	73	<20	<0.01	<10	<10	5	<10	>10000			1.540	4.77	
D007240		<1	69	<20	<0.01	<10	<10	4	<10	>10000	132		4.74	4.63	
D007241		<1	84	<20	<0.01	<10	<10	5	<10	7800					
D007242		<1	60	<20	<0.01	<10	<10	5	<10	>10000				5.42	
D007243		<1	98	<20	<0.01	<10	<10	4	<10	180					
D007244		<1	4	<20	<0.01	<10	<10	3	<10	257					
D007245		<1	77	<20	<0.01	<10	<10	7	<10	>10000				10.10	
D007246		<1	70	<20	<0.01	<10	<10	5	<10	>10000				6.94	
D007247		<1	92	<20	<0.01	<10	<10	6	<10	>10000				4.75	
D007248		<1	50	<20	<0.01	<10	<10	2	<10	>10000	446		>20.0	3.48	21.50

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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: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 12-DEC-2022
Account: F

Project: Groundhog

CERTIFICATE OF ANALYSIS WH22246602

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Ag-GRA21 Ag ppm 5	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
D007249		1.64		0.009	1.0	0.04	69	<10	60	<0.5	<2	18.8	2.5	<1	2	7
D007250		1.39		0.001	1.3	0.04	53	<10	60	<0.5	<2	17.7	1.6	2	2	6
E814451		2.95		0.093	0.5	0.03	41	<10	280	<0.5	<2	0.17	<0.5	<1	16	4
E814452		2.01		0.058	0.3	0.01	23	<10	120	<0.5	<2	0.33	<0.5	<1	10	2
E814453		1.65		0.586	2.4	0.19	1265	<10	30	<0.5	<2	0.20	2.0	1	16	32
E814454		1.27		0.002	<0.2	0.11	117	<10	20	<0.5	<2	0.12	<0.5	1	12	4
E814455		1.28		0.053	>100	<0.01	453	<10	10	<0.5	4	0.41	30.5	2	18	9740
E814456		1.12		0.042	>100	0.01	177	<10	<10	<0.5	46	1.07	5.6	<1	10	1870
E814457		1.29		0.002	1.0	0.03	73	<10	60	<0.5	<2	19.4	<0.5	2	2	13

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CERTIFICATE OF ANALYSIS WH22246602

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Fe	Ga	Hg	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
	Units	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
	LOD	0.01	10	1	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	2
D007249		1.51	<10	<1	0.02	<10	<10	10.75	643	1	0.01	8	20	215	0.01	3
D007250		3.05	<10	<1	0.02	<10	<10	9.58	1220	2	0.01	12	10	429	0.03	3
E814451		0.66	<10	<1	0.03	<10	<10	0.05	64	<1	<0.01	1	10	39	0.06	7
E814452		0.66	<10	<1	0.01	<10	<10	0.07	79	1	<0.01	2	10	61	0.02	4
E814453		2.29	<10	<1	0.02	<10	<10	0.09	80	1	<0.01	3	210	249	0.04	18
E814454		0.84	<10	<1	0.02	<10	<10	0.06	89	2	<0.01	6	60	15	0.02	<2
E814455		0.84	<10	4	<0.01	<10	<10	0.20	83	<1	<0.01	1	<10	483	0.52	8080
E814456		0.89	<10	1	<0.01	<10	<10	0.59	108	2	<0.01	4	<10	>10000	0.33	1770
E814457		1.94	<10	<1	0.01	<10	<10	11.35	707	1	0.01	8	30	38	0.01	13

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Cu-OG46	Pb-OG46	Zn-OG46	Pb-VOL70
	Analyte	Sc	Sr	Th	Ti	Tl	U	V	W	Zn	Ag	Cu	Pb	Zn	Pb
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
	LOD	1	1	20	0.01	10	10	1	10	2	1	0.001	0.001	0.001	0.01
D007249		1	92	<20	<0.01	<10	<10	3	<10	410					
D007250		1	137	<20	<0.01	<10	<10	3	<10	218					
E814451		<1	3	<20	<0.01	<10	<10	2	<10	55					
E814452		<1	3	<20	<0.01	<10	<10	<1	<10	30					
E814453		<1	10	<20	<0.01	10	<10	8	<10	109					
E814454		<1	3	<20	<0.01	<10	<10	2	<10	18					
E814455		<1	3	<20	<0.01	<10	<10	2	<10	1090	628				
E814456		<1	5	<20	<0.01	<10	<10	<1	<10	147	192		1.615		
E814457		1	146	<20	<0.01	<10	<10	3	<10	80					

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CERTIFICATE OF ANALYSIS WH22246602

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	OA-HSUL10
	PUL-31	PUL-QC	SPL-21	WEI-21

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

Applies to Method:				
	Ag-GRA21	Ag-OG46	Au-ICP21	Cu-OG46
	ME-ICP41	ME-OG46	Pb-OG46	Pb-VOL70
	Zn-OG46			