

**BC Geological Survey
Assessment Report
41595**



Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geochemical

TOTAL COST: \$15,787.76

AUTHOR(S): Darcy Vis

SIGNATURE(S): Darcy Vis

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): N/A

YEAR OF WORK: 2023

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5997541/Sept 22, 2023

PROPERTY NAME: Cowichan

CLAIM NAME(S) (on which the work was done): 1077986, 1077741, 1077344, 1079726, 1077380

COMMODITIES SOUGHT: Au, Ag, Cu, Pb, Zn

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092C064, 092C042

MINING DIVISION: Victoria

NTS/BCGS: 92C015/92C.088

LATITUDE: 48 ° 52 ' 10 " LONGITUDE: 124 ° 24 ' 44 " (at centre of work)

OWNER(S):

1) Darcy Vis

2) _____

MAILING ADDRESS:

1051 Boxcar Close

Victoria BC V9B 0Y4

OPERATOR(S) [who paid for the work]:

1) Darcy Vis

2) _____

MAILING ADDRESS:

1051 Boxcar Close

Victoria BC V9B 0Y4

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Bonanza Volcanics, Wrangellia, Quatsino, Parsons Bay, Karmutsen, Cowichan Thrust Belt, advanced argillic, skarn, epithermal,

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 32689, 17164, 00642, 02163, 22155, 15821

39563

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil 14 Samples		1077986, 1079726, 1077380	2631.30
Silt			
Rock 4 Samples		1077344, 1077986, 1079726	2631.29
Other 7 Biogeochemical Samples		1077986, 1079726	2631.29
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres) 52m		1077741	7893.88
Underground dev. (metres)			
Other			
TOTAL COST:			15,787.76



Print and Close

Cancel

Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: VIS, DARCY BEREND (280031) **Submitter:** VIS, DARCY BEREND (280031)
Recorded: 2023/SEP/22 **Effective:** 2023/SEP/22
D/E Date: 2023/SEP/22

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: 5997541
Work Type: Technical Work
Technical Items: Geochemical, Geological
Work Start Date: 2023/FEB/20
Work Stop Date: 2023/MAY/20
Total Value of Work: \$ 16000.00
Mine Permit No:

Summary of the work value:

Title Number	Claim Name	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Sub- mission Fee
1077344	GD	2020/JUL/18	2023/OCT/01	2024/MAY/08	220	21.25	\$ 127.72	\$ 0.00
1077355	GD2	2020/JUL/19	2023/OCT/01	2024/MAY/08	220	106.24	\$ 638.61	\$ 0.00
1077358	GD3	2020/JUL/19	2023/OCT/01	2024/MAY/08	220	42.49	\$ 255.42	\$ 0.00
1077380	GD4	2020/JUL/20	2023/OCT/01	2024/MAY/08	220	21.25	\$ 127.73	\$ 0.00
1077569	CHANCE	2020/JUL/25	2023/OCT/01	2024/MAY/08	220	42.49	\$ 255.41	\$ 0.00
1077582	C2	2020/JUL/26	2023/OCT/01	2024/MAY/08	220	42.49	\$ 255.42	\$ 0.00
1077605	GAMBLE	2020/JUL/26	2023/OCT/01	2024/MAY/08	220	21.24	\$ 127.67	\$ 0.00
1077607	GAMBLE2	2020/JUL/26	2023/OCT/01	2024/MAY/08	220	106.21	\$ 638.41	\$ 0.00
1077664	GAMBLE3	2020/JUL/29	2023/OCT/01	2024/MAY/08	220	21.24	\$ 127.70	\$ 0.00
1077741	MUCKAWAY	2020/AUG/03	2023/OCT/01	2024/MAY/08	220	63.74	\$ 383.14	\$ 0.00
1077742	PILLAR	2020/AUG/03	2023/OCT/01	2024/MAY/08	220	21.25	\$ 127.72	\$ 0.00
1077887	IVAN	2020/AUG/09	2023/OCT/01	2024/MAY/08	220	42.53	\$ 255.63	\$ 0.00
1077986	GAMBIT	2020/AUG/14	2023/OCT/01	2024/MAY/08	220	148.74	\$ 894.04	\$ 0.00
1078722	AM	2020/SEP/17	2023/OCT/01	2024/MAY/08	220	106.23	\$ 638.51	\$ 0.00
1079707	ARCHER3	2020/NOV/23	2023/OCT/01	2024/MAY/08	220	786.11	\$ 4157.64	\$ 0.00
1079708	ARCHER4	2020/NOV/23	2023/OCT/01	2024/MAY/08	220	191.20	\$ 1011.23	\$ 0.00
1079722		2020/NOV/24	2023/OCT/01	2024/MAY/08	220	42.48	\$ 224.09	\$ 0.00
1079726		2020/NOV/24	2023/OCT/01	2024/MAY/08	220	42.50	\$ 224.20	\$ 0.00
1079727		2020/NOV/24	2023/OCT/01	2024/MAY/08	220	106.25	\$ 560.49	\$ 0.00
1079823		2020/NOV/30	2023/OCT/01	2024/MAY/08	220	21.25	\$ 110.35	\$ 0.00
1079850		2020/DEC/02	2023/OCT/01	2024/MAY/08	220	63.74	\$ 329.29	\$ 0.00
1079851		2020/DEC/02	2023/OCT/01	2024/MAY/08	220	85.00	\$ 439.15	\$ 0.00
1079853	VICTOR	2020/DEC/02	2023/OCT/01	2024/MAY/08	220	21.26	\$ 109.83	\$ 0.00
1079854	TIPTOP	2020/DEC/02	2023/OCT/01	2024/MAY/08	220	21.25	\$ 109.81	\$ 0.00
1079855		2020/DEC/02	2023/OCT/01	2024/MAY/08	220	63.77	\$ 329.44	\$ 0.00
1079869		2020/DEC/03	2023/OCT/01	2024/MAY/08	220	85.01	\$ 438.03	\$ 0.00
1079897		2020/DEC/04	2023/OCT/01	2024/MAY/08	220	42.52	\$ 218.52	\$ 0.00

1080905	GD05	2021/FEB/01	2023/OCT/01	2024/MAY/08	220	446.15	\$ 1934.14	\$ 0.00
1081620		2021/MAR/11	2023/OCT/01	2024/MAY/08	220	63.72	\$ 242.29	\$ 0.00
1084993		2021/OCT/25	2023/OCT/01	2024/MAY/08	220	127.51	\$ 383.34	\$ 0.00

Financial Summary:

Total applied work value: \$ 15674.97

PAC name: Darcy Vis

Debited PAC amount: \$ 0.0

Credited PAC amount: \$ 325.03

Total Submission Fees: \$ 0.0

Total Paid: **\$ 0.0**

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ASSESSMENT REPORT
on the
COWICHAN PROPERTY 2023

Event Number: 5997541/Sept 22, 2023
Claims Worked On: 1077986, 1077741, 1077344, 1079726, 1077380

Located in the
Victoria Mining Division
British Columbia, Canada

NTS Map Sheet: 92C015
BCGS Map Sheet: 92C.088
North Latitude: 48° 52' 10"
West Longitude: 124° 24' 44"

Prepared by
Darcy Vis, B.Sc., P.Ge.
December 2023

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1 INTRODUCTION

The Cowichan Lake Property is situated south of Cowichan Lake on Vancouver Island, BC, Canada. The property consists of 31 claims blocks totaling roughly 3059ha. Historic work included diamond drilling, rock sampling, and soil sampling mainly on the Archer and Gold Dyke claims. Darcy Vis staked the claims starting in July 2020 after reviewing the historic Assessment Reports which mention the existence of large gossanous areas. The first site visit was completed on August 31, 2021 and resulted in the discovery of large gossanous zones that contained clay-sericite-pyrite alteration within the Bonanza Volcanics. Further geochemical rock and silt sampling occurred in 2023 and is outlined in this report.

2 LOCATION, ACCESS, PHYSIOGRAPHY & CLIMATE

The Cowichan Property is located roughly 1km south of Caycuse, BC along the south shore of Cowichan Lake, 90km northwest of Victoria, BC on Vancouver Island. Access to the property is via logging roads including the South Shore Road, McClure Main, Granite Creek Main, Caycuse Hookup, and Renfrew Road. Gates located on the south and north end of the Caycuse Hookup, and a large washout on the Granite Creek Main limit access using those roads. Nearby towns include Caycuse (Pop. 65), Honeymoon Bay (Pop. 580), and Lake Cowichan (Pop. 3226). The property sits on the traditional territories of the Ditidaht First Nation, the Pacheedaht First Nation, and the Hul'qumi'num Treaty Group. Portions of the property are on land that have private surface rights held by Timberwest Forest Ltd., and Hancock Forest Management Inc, with the remaining claims on Crown Land.

The terrain on the property is moderately rugged with steep hills, and deep cut creeks characteristic of the Vancouver Island ranges. Elevations vary from approximately 1000m above sea level (asl) on Mount Vernon, down to about 200m asl in the valley bottoms. The vegetation is typically dense with thick underbrush and second/third growth coniferous trees. The entire property has been logged at least once and no old growth trees remain. Newer logging cut blocks exist on the property and recent/current logging is being completed by Mosaic Forest Management and Hancock Forest Management. Due to the dense forest the best rock exposures are within road cuts, within cut blocks, and creek beds.

Drainage for the area is provided by numerous small creeks flowing into larger creeks and rivers. The Granite and Vernon Creeks, which flow into the Nitinat River, provide drainage for the far western portion of the claims. Raymond Creek, which flows into the North flowing Nixon Creek drains the center portion of the property into Cowichan Lake. The Gordon River drains the eastern portion of the property, which flows south to the Pacific Ocean.



Figure 1. General location map of the property.

3 LAND TENURE AND CLAIM STATUS

The Cowichan Property is comprised of 31 claim blocks totaling 3059.64 hectares.

Table 1. Property claim list.

Title Number	Claim Name	Owner	Issue Date	Good To Date*	Status	Area (ha)
1077344	GD	280031 (100%)	2020/JUL/18	2024/MAY08	GOOD	21.2482
1077355	GD2	280031 (100%)	2020/JUL/19	2024/MAY08	GOOD	106.2414
1077358	GD3	280031 (100%)	2020/JUL/19	2024/MAY08	GOOD	42.493
1077380	GD4	280031 (100%)	2020/JUL/20	2024/MAY08	GOOD	21.2499
1077569	CHANCE	280031 (100%)	2020/JUL/25	2024/MAY08	GOOD	42.4912
1077582	C2	280031 (100%)	2020/JUL/26	2024/MAY08	GOOD	42.4931
1077605	GAMBLE	280031 (100%)	2020/JUL/26	2024/MAY08	GOOD	21.2391
1077607	GAMBLE2	280031 (100%)	2020/JUL/26	2024/MAY08	GOOD	106.2084
1077664	GAMBLE3	280031 (100%)	2020/JUL/29	2024/MAY08	GOOD	21.2446
1077741	MUCKAWAY	280031 (100%)	2020/AUG/03	2024/MAY08	GOOD	63.7398
1077742	PILLAR	280031 (100%)	2020/AUG/03	2024/MAY08	GOOD	21.2482
1077887	IVAN	280031 (100%)	2020/AUG/09	2024/MAY08	GOOD	42.5274
1077986	GAMBIT	280031 (100%)	2020/AUG/14	2024/MAY08	GOOD	148.7352
1078722	AM	280031 (100%)	2020/SEP/17	2024/MAY08	GOOD	106.2252
1079707	ARCHER3	280031 (100%)	2020/NOV/23	2024/MAY08	GOOD	786.1116
1079708	ARCHER4	280031 (100%)	2020/NOV/23	2024/MAY08	GOOD	191.1991
1079722		280031 (100%)	2020/NOV/24	2024/MAY08	GOOD	42.48
1079726		280031 (100%)	2020/NOV/24	2024/MAY08	GOOD	42.4998
1079727		280031 (100%)	2020/NOV/24	2024/MAY08	GOOD	106.2497
1079769		280031 (100%)	2020/NOV/26	2024/MAY08	GOOD	85.0009
1079770	NIXON	280031 (100%)	2020/NOV/26	2024/MAY08	GOOD	85.0349
1079823		280031 (100%)	2020/NOV/30	2024/MAY08	GOOD	21.2482
1079850		280031 (100%)	2020/DEC/02	2024/MAY08	GOOD	63.7393
1079851		280031 (100%)	2020/DEC/02	2024/MAY08	GOOD	85.0029
1079853	VICTOR	280031 (100%)	2020/DEC/02	2024/MAY08	GOOD	21.259
1079854	TIPTOP	280031 (100%)	2020/DEC/02	2024/MAY08	GOOD	21.2543
1079855		280031 (100%)	2020/DEC/02	2024/MAY08	GOOD	63.7668
1079869		280031 (100%)	2020/DEC/03	2024/MAY08	GOOD	85.0114
1079897		280031 (100%)	2020/DEC/04	2024/MAY08	GOOD	42.5215
1080905	GD05	280031 (100%)	2021/FEB/01	2024/MAY08	GOOD	446.1463
1081620		280031 (100%)	2021/MAR/11	2024/MAY08	GOOD	63.7249
Total Ha						3059.64

* Good to date pending government approval.

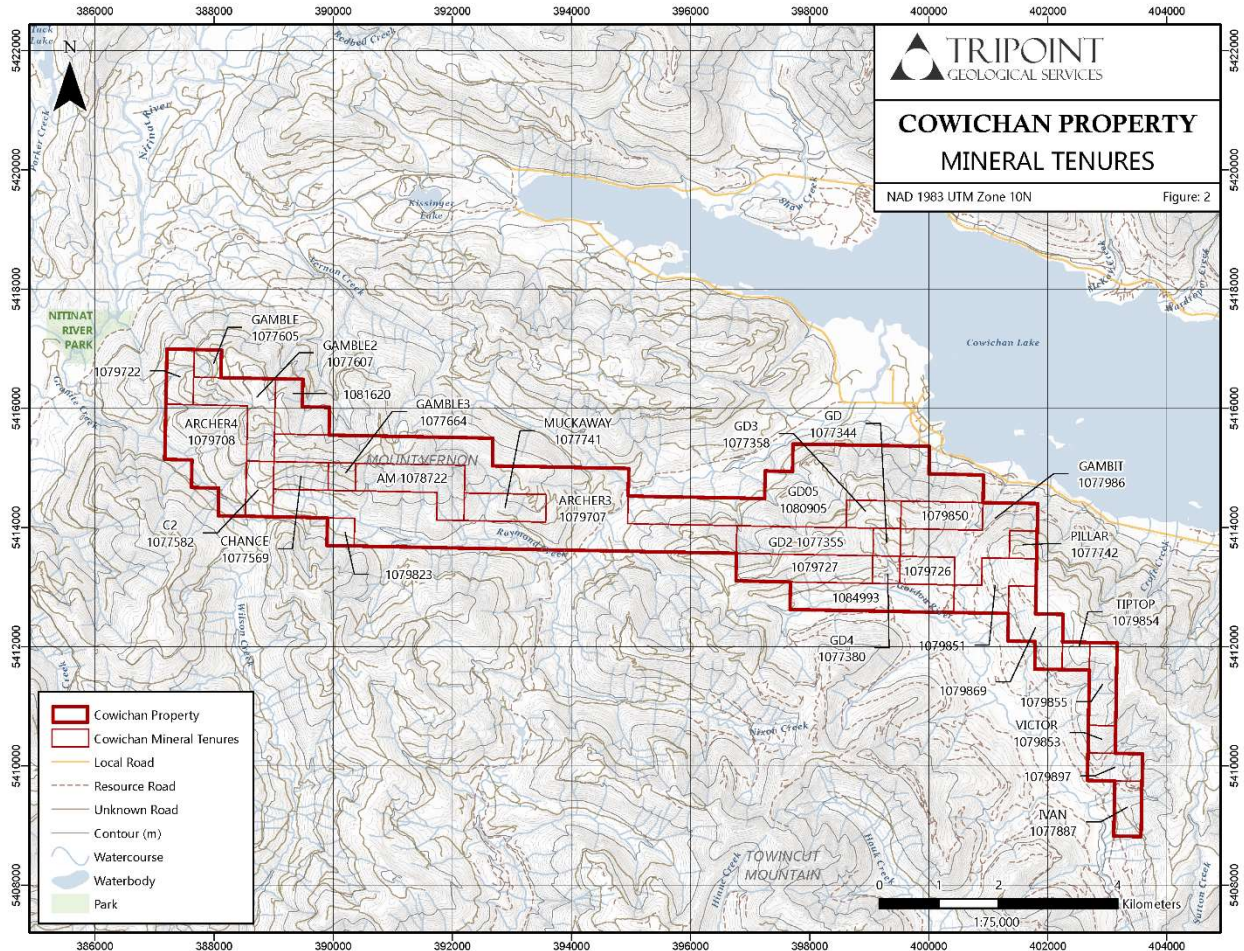


Figure 2. Property claim map.

4 EXPLORATION HISTORY

The Cowichan Lake property was first worked on in 1885 when three placer gold claims were staked along the northside of the Gordon River and worked between 1886-1889. In 1912 it is reported that gold and opal was found in the headwaters of the Gordon River (MINFILE 092C238). The Cowichan Lake property itself was first explored for hard rock in 1911 when an adit was driven to explore galena-sphalerite mineralization in a quartz-carbonate filled shear zone known as the Silver Leaf Showing, located at the headwaters of the Gordon River. The adit is believed to be approximately 27 meters long, with a bearing of roughly 110 degrees (Payne 1987), the adit has yet to be rediscovered.

In the mid-1960 a prospector named Wally Deans re-staked the Silver Leaf showing under the name of the May claims and carried out minor prospecting, no information is available (Payne 1987).

In 1964 Avallin Mines Ltd conducted a program of geological mapping and soiling sampling along Granite Creek. None of the soil sampling was completed on the Cowichan claims, however geological mapping was completed on the current claims north of Granite Creek. The mapping showed that the area

was underlain by limestones, tuffs, fragmental volcanics, andesites and basaltic flows that had been intruded by granodiorite and feldspar porphyry plutons. High temperature chalcopyrite-magnetite replacements occurred within the limestones in proximity near the feldspar porphyritic rocks. Pyrite and chalcopyrite with traces of bornite occurred in altered, sheared and brecciated quartz feldspar porphyry intrusions (Malcolm 1965).

In 1969 Quintana Minerals Corporation completed a geological mapping and soil sampling project over a large area west of Nixon Creek on their Gate, AV, Tan, O.G.M. and Tana groups. Approximately 3000 soil samples were collected and assayed for Copper and Molybdenum, some of which were completed on the current Cowichan Property claims. Mapping over the claims show Bonanza Volcanics to the north, with Karmutsen Basalts to the south. Mineralization was found east of Granite Creek showing much pyrite with traces of chalcopyrite and molybdenum within the feldspar porphyry surface rocks (Malcolm 1969).

In 1975 G.W. Horsman (a bulldozer operator for McMillan Bloedel) staked 10 mineral claims after finding magnetite and chalcopyrite bearing rock while road building. The claims were staked on the north side of Raymond Creek, on the south slope of Mt. Vernon. He brought various specimens to Dr. G.E.P. Eastwood at the Geological Division of the Mineral Resources Branch of the BC Department of Mines and Petroleum Resources. One specimen contained massive pyrrhotite with magnetite and chalcopyrite (assayed trace gold, 0.3 oz/ton silver, and 0.75% copper). Another sample was granite that had been silicified and heavily pyritized (assayed trace gold and silver). During a site visit by Dr.G.E.P Eastwood he notes all of the rock exposed in the road cuts is “white” and “appears to be an altered volcanic”. Two pits in the ditch of the upper road exposed narrow bands of magnetite in epidote skarn, no locations were provided (Eastwood 1975).

In 1981 Invex Resources Ltd. examined the Silver Leaf Showing and completed limited rock chip sampling along the adit entrance, no data is available (Payne 1987).

In 1986 OrbeX Industries Inc re-staked the Silver Leaf Showing property, renaming it Gold Dyke, and carried out program of soil sampling and diamond drilling. They collected 189 soil samples over a grid centered on the historic adit and completed five BQWL sized diamond drill holes totaling 427 meters. The soil sampling grid showed weak gold, silver, lead, and arsenic anomalies. Drilling intercepted altered pyritic, grey porphyritic volcanics and magnetic andesite. Within the altered volcanics two galena, sphalerite bearing quartz-carbonate veins were intercepted with widths of 3.4m and 6.48m respectively. Assays returned from the drilling showed intercepts of elevated gold, silver, lead, and zinc (Payne 1987).

Table 2. 1986 Drilling Collars (from Payne 1987)

Hole#	Latitude	Longitude	Elevation(m)	Total Depth(m)	Azimuth	Dip
213-1	100+06N	103+50E	695.70	92.40	180	-60
213-2	100+06N	103+50E	695.70	61.87	180	-45
213-3	100+25N	103+00E	685	57.30	180	-45

213-4	100+25N	103+00E	685	92.35	180	-60
213-5	100+12N	103+25E	690.49	122.83	180	-60

Table 3. 1986 Drilling Significant Intervals (from Payne 1987)

Hole#	From	To	Length(m)	Gold(ppb)	Silver(ppm)	Lead(ppm)	Zinc(ppm)
213-1	20	21	1	590	1.1	2081	5243
213-1	21	22	1	910	1.3	4491	7672
213-1	24	25	1	360	2.2	1994	6236
213-1	27	28	1	450	1.3	946	9054
213-1	86	87	1	3960	4.9	11183	40839
213-2	60	61	1	290	0.8	2434	8049
213-4	62	63	1	850	1.6	5257	1262
213-4	63	64	1	1250	2.0	4216	13877
213-4	64	65	1	960	3.8	10287	32735
213-4	65	66	1	1200	1.9	3873	12614
213-4	68	69	1	480	1.1	2446	8069
213-4	78	80.47	2.47	1389	2.0	14987	10404
213-5	80	81	1	65	1.1	1903	10384

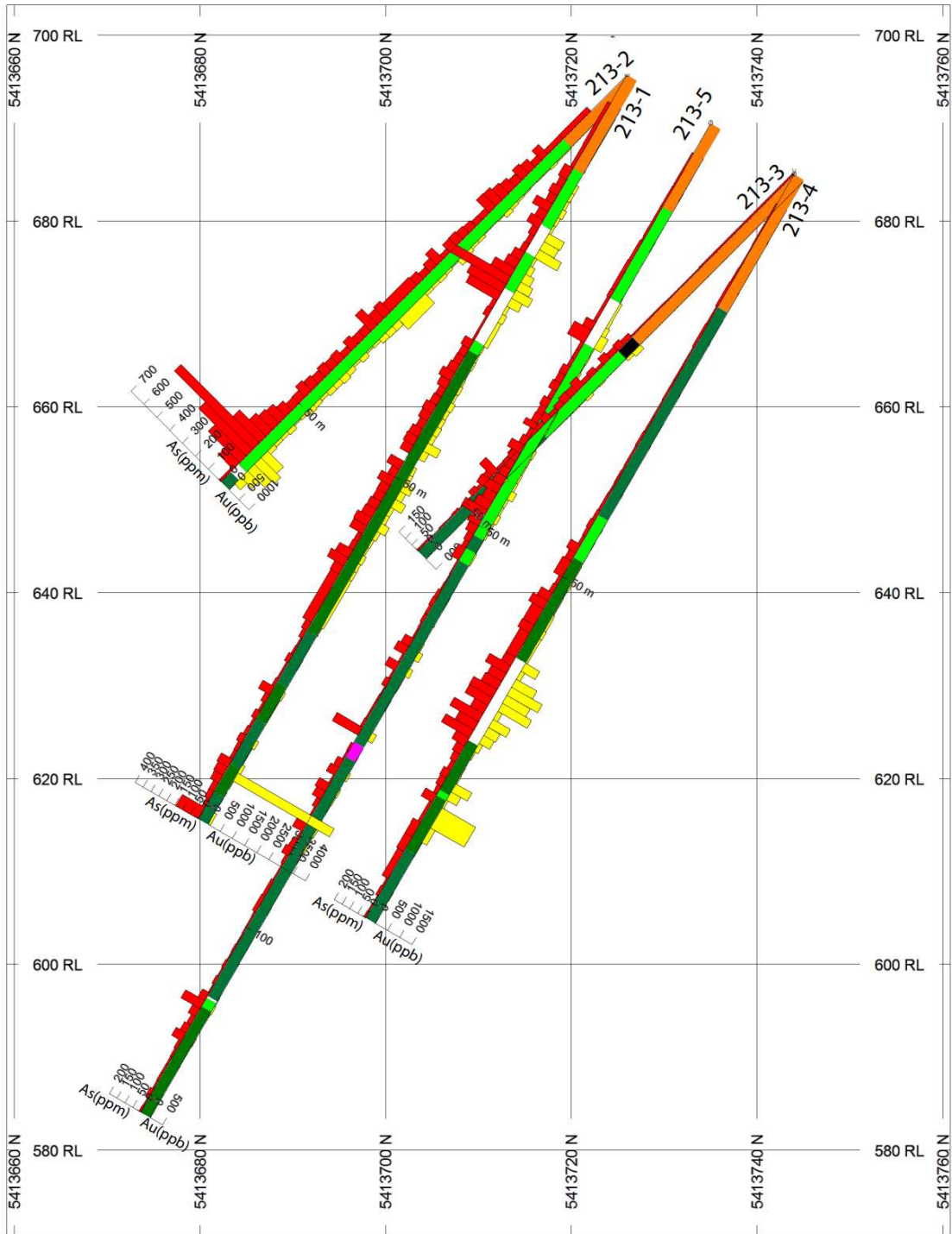


Figure 3. Drill Section from the 1986 Orbex Industries drilling on the Gold Dyke (data from Payne 1987).

In 1987 Nuspar Resources Ltd. completed geological mapping, trenching, and diamond drilling on their Archer I, Archer II, and TATTERS II mineral claims, known as the Mount Vernon mineral property, located just east of Granite Creek, and north of Raymond Creek. Five shallow EX sized drillholes were completed for a total of 113 meters and showed anomalous gold (up to 2ppm Au near surface in 87-1) and silver values. The geological mapping showed large alteration zones comprised of pyrite, hematite staining, and red soils over the Archer claims. Anomalous gold and silver values were intercepted within the drillholes and within rock chip samples collected along the road cuts (Fischl 1988). A news release dated November 5, 1987 stated that two 300lbs bulk samples were collected graded 0.39 oz/t gold, and a further ten 30lbs samples assayed between 0.014 to 0.061 oz/t gold (Nuspar Resources Ltd. 1987). A news release for Nuspar Resources Ltd. dated May 24, 1988 stated that up to 21 drillholes had been drilled, however the information for the further 16 holes has not been located, nor is available in publicly available assessment reports (Nuspar Resources Ltd. 1988).

Table 4. 1988 Drilling Collars (from Fischl 1988).

Hole#	Easting	Northing	Elevation(m)	Total Depth(m)	Azimuth	Dip
87-1	389680	5415034	726	44.8	000	-60
87-2	390010	5415039	786	15.24	286	-45
87-3	389540	5415032	732	32.0	015	-45
87-4	390070	5414903	716	9.15	045	-45
87-5	390050	5414932	716	12.2	045	-45

In 1991 RW Neil completed silt sampling up Raymond Creek on the Muckaway claims returning gold values ranging from 0.505 – 3.360ppm gold (Neil 1991).

In 1994 Arne Birkeland, a prospector, completed work on the Archer Claims as part of the Prospectors Assistance Program. Prospecting was completed on a 4km x 2km area on the south slope of Mount Vernon, as well as 60 soil samples, and 2 rock samples were collected. Soil sampling results range between 108 and 311ppm Copper with up to 60ppm Molybdenum (Birkeland 1994).

In 2011 Dean Arbic, a local prospector, collected 4 rock samples north of Raymond Creek and discovered zones of heavy gossan (Arbic 2011).

In 2021 Darcy Vis collected 28 rock samples and 8 soil samples over the property, the samples were sent for Assay along with some having Terraspec SWIR analysis. A series of gossanous surface zones were located (Vis 2021).

On October 23, 2021 Darcy Vis and Alfred Vis collected two rock samples over the Gold Dyke East zone. On April 20, 2022 Darcy Vis and Michael Brinton collected 8 rock samples on the Gold Dyke East and West zones. On September 30, 2022 Darcy Vis collected 7 Silt Samples on the Creeks outflowing from Mt.Vernon, as well as 2 rock samples from the newly discovered Center Zone, a gossan on the southern slope of Mt.Vernon, above Raymond Creek (Vis 2022).

5 GEOLOGY

5.1 Regional Geology & Mineralization

Vancouver Island is the main component of the Insular Belt, the westernmost major terrane of the Canadian Cordillera (Monger 1997). The Insular Belt contains separate terranes including Wrangellia, Pacific Rim, and Crescent. Wrangellia is the largest terrane and is composed of middle Paleozoic and Jurassic volcanic-plutonic complexes, both underlain by gneiss-migmatite terrains and overlain by Permo-Pennsylvanian and Cretaceous clastic sediments (Muller 1977). The oldest rocks in the Cowichan Lake area belong to the Paleozoic Sicker Group, which contain volcanic and sedimentary units ranging from Late Silurian to Early Permian. These were intruded by mafic sills and overlain unconformably by the basaltic volcanics of the Late Triassic Karmutsen Formation. The Karmutsen was succeeded by the Quatsino and Parson Bay Formations, which together, with the Karmutsen Formation, form the Vancouver Group (Muller 1997). These units were then intruded or overlain by rocks of the Jurassic Bonanza Arc, which is composed of the West Coast Crystalline Complex, Island Plutonic Suite, and Bonanza Group volcanics (Canil et al. 2010). The Bonanza Arc is in turn unconformably overlain by the Late Cretaceous sedimentary rocks of the Nanaimo Group (Muller et al 1974).

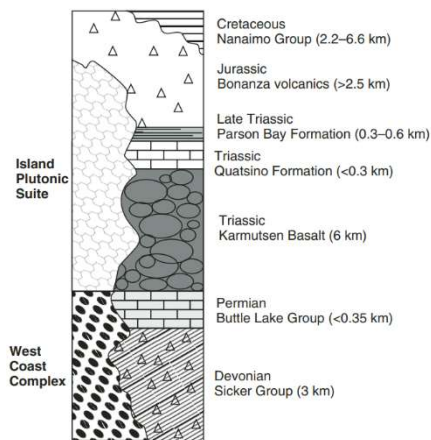


Figure 4. Stratigraphy for Wrangellia on Vancouver Island (figure copied from Canil et al. 2010)

Post Jurassic tectonism on Vancouver Island includes Cretaceous transpression and Eocene Extension (Muller et al 1974), which formed antiformal structures including the regional-scale Cowichan and Buttle Lake anticlinoria, which runs North-westerly along the length of the island (Yorath et al. 1985). On the eastern side of Vancouver Island, the Cowichan Fold and Thrust Belt forms a series of west-verging structures involving all pre-Late Cretaceous age rocks (England and Calon 1991). These major structures are related to accretion of the Pacific Rim and Crescent terranes in the Eocene (Johnston and Acton, 2003). Uplift in Wrangellia related to accretion of the Crescent Terrane occurred by 45Ma (Currie and Grist, 1996). Current subduction of the Juan de Fuca plate, which is outboard of Vancouver Island, today occurs at a rate of 5cm/year with related uplift of ~1-5 mm/year (Mazzotti et al. 2007).

The Karmutsen Formation is thought to have been formed by basaltic eruptions in a deep marine rift basin, then continued as aquagene tuff and breccias as the basin became shallower, and finally terminated with extrusion of subaerial basalt flows. The Quatsino and Parson Bay Formation was formed in near and offshore basins in the Karmutsen rift archipelago (Muller et al 1974).

The Jurassic Bonanza arc is divided into the West Coast Crystalline Complex, the Island Plutonic Suite, and the Bonanza Group volcanics. The West Coast Crystalline Complex has been interpreted as the deepest preserved levels of the Jurassic Arc (DeBari et al. 1999). The complex is composed of fine grained pegmatitic quartz diorite, granodiorite, and gabbro (Muller 1983). The Island Plutonic Suite occurs as a series of roughly northwest-aligned plutons ranging in composition from quartz diorite to alkali feldspar granite (Canil et al. 2010). The Bonanza volcanics form the upper most component of the Bonanza Arc and vary from pillowed and massive flows of aphanitic basalt, through plagioclase, pyroxene, and hornblende phyrlic andesite, to dacite. Pyroclastic deposits are abundant with aphanitic felsic and mafic ash flows, and tuffs containing blocks and bombs. The Bonanza Arc was active for ~40Ma between 202 and 168Ma (Nixon and Orr, 2007). The Bonanza volcanics on the south island are broken out into two distinct facies, the Red Bed Creek facies, and the Klanawa facies. The Red Bed Creek facies is composed of a coarse ash maroon tuff with a maximum thickness of 750m. Overlying the Red Bed Creek facies is the Klanawa facies, which is characterized by plagiophyrlic pyroclastic deposits and lesser flows of intermediate to felsic compositions (Paulson 2010).

The main important metallic ore deposits on Vancouver Island are massive sulphides of Zn, Cu, Pb, Au, Ag in the Sicker Volcanics (Mt. Myra Mine), Skarn Deposits of Cu and Fe in Quatsino limestones (Argonaut, Texada, Coast Copper, Merry Widow), and porphyry copper deposits surrounding and within high level Island Intrusions (Island Copper, NorthIsle) or in Sooke Intrusions (Mt. Washington, Catface). NorthIsle and Island Copper deposits are located in Bonanza Group Volcanics in a very similar environment to the Cowichan Property.

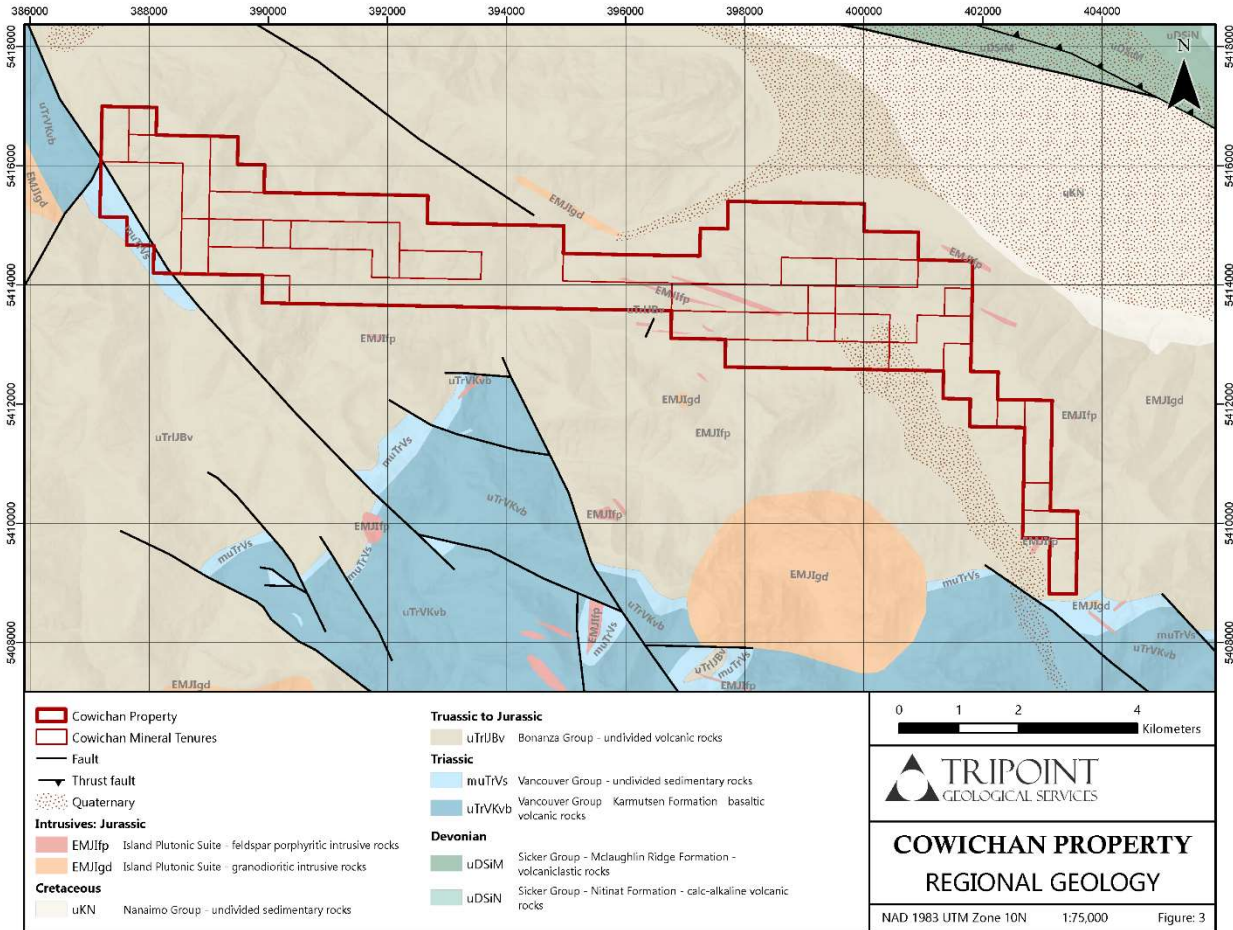


Figure 5. Regional Geology Map

5.2 Property Geology

The area south of Cowichan Lake is underlain by formations of the Vancouver Group (Late Triassic) and Bonanza Group (Early Jurassic). The ocean floor basalts and andesites of the Karmutsen Formation forms a southern contact boundary and makes up the majority of the Vancouver Group rocks located on the property. The Quatsino Formation overlies the Karmutsen and are composed of limestones varying from 25-500m in thickness. The succeeding Parson Bay Formation is in diachronous contact with the Quatsino Limestones and in places lies directly on top of the Karmutsen Formation rocks. The Bonanza Group volcanics dominates the main portion of the Cowichan Property and shows as an undifferentiated group of formations that contain argillites, cherts, tuffs, volcanic breccias, sandstones, and basaltic to rhyolitic flows. Throughout the property the Island Plutonic Suite is uncovered as granodiorite dykes and small batholiths.

Minor shears on the property trend roughly NW-SE, with larger fault zones trending NE-SW. Most of the minor shears contain sulphides and increased alteration, whereas the larger fault zones do not. It is currently theorized that the NW-SE trend structures are older, with the larger NE-SW faults forming post deposition (possibly Cretaceous during accretion of the Crescent Terrane). This theory will need to be further tested in the field. It is also theorized that the property is underlain by a NW trending anticline that has exposed the older Karmutsen Formation along Granite Creek and south of the property, if this theory is correct the Bonanza Group rocks should be younging to the northeast.

Karmutsen Formation (Upper Triassic)

The Karmutsen Formation consists largely of andesitic to basaltic flows on the property. Andesite is typically the dominant lithology and shows dark grey to dark greenish grey in colour. It is often amygdaloidal with amygdules ranging in size from 1-5mm in diameter and are typically filled with chlorite or calcite. Feldspar phenocrysts are also common with euhedral feldspars forming as lathes that range from 2-4mm long. They can form glomerocrysts as irregular masses, or with radial symmetry. Within the mafic volcanics thin beds of siliceous tuffs can be found, especially along contacts with Quatsino and Parsons Bay rocks.

Quatsino Limestone (Upper Triassic)

The Quatsino Limestones are found contacting the Karmutsen basalts and andesites. The unit is made up of light to medium grey micritic limestones. No fossils have been observed by the author however previous reports have observed thin bivalve shells. Skarn has been observed in contacts with the intrusives on the property.

Parsons Bay Formation (Upper Triassic)

Outcrops of Parson Bay Formation are found frequently near the Quatsino Limestones and are composed of calcareous to non-calcareous black to dark grey well bedded argillites.

Bonanza Group (Lower Jurassic)

The majority of the property is overlain by the Bonanza Group volcanics which consists of interbedded tuffs, volcanic breccias, sandstones, siltstones, mudstones, and basaltic to andesitic flows. Within the Bonanza Group there is variable alteration, namely clay-sericite-pyrite, carbonate, and silica alteration.

Igneous Intrusives

Igneous intrusives form as dykes on the property and consist of granitic to granodioritic rocks, multiple phases of intrusives are present on the property, however they have yet to be categorized.

5.3 Property Mineralization and Alteration

Much of the Bonanza rocks on the property have been altered showing large zones of intense clay, smectite, sericite, pyrite, and hematite alteration forming gossans. Clay alteration often destroys the protolith textures and is typically accompanied by abundant pyrite (up to 10%), which readily alters to hematite and forms gossanous staining and red soils. Within the gossanous zones areas of silica alteration are found typically in the form of vuggy residual quartz, and quartz-carbonate veining. Rock surrounding the gossanous zones range from fresh to chlorite-epidote alteration.

The Property is broken into eight zones of mineralization/alteration including the OGM, Archer, Surprise, Center, Gold Dyke West, Gold Dyke East, Pillar, and Ivan zones.

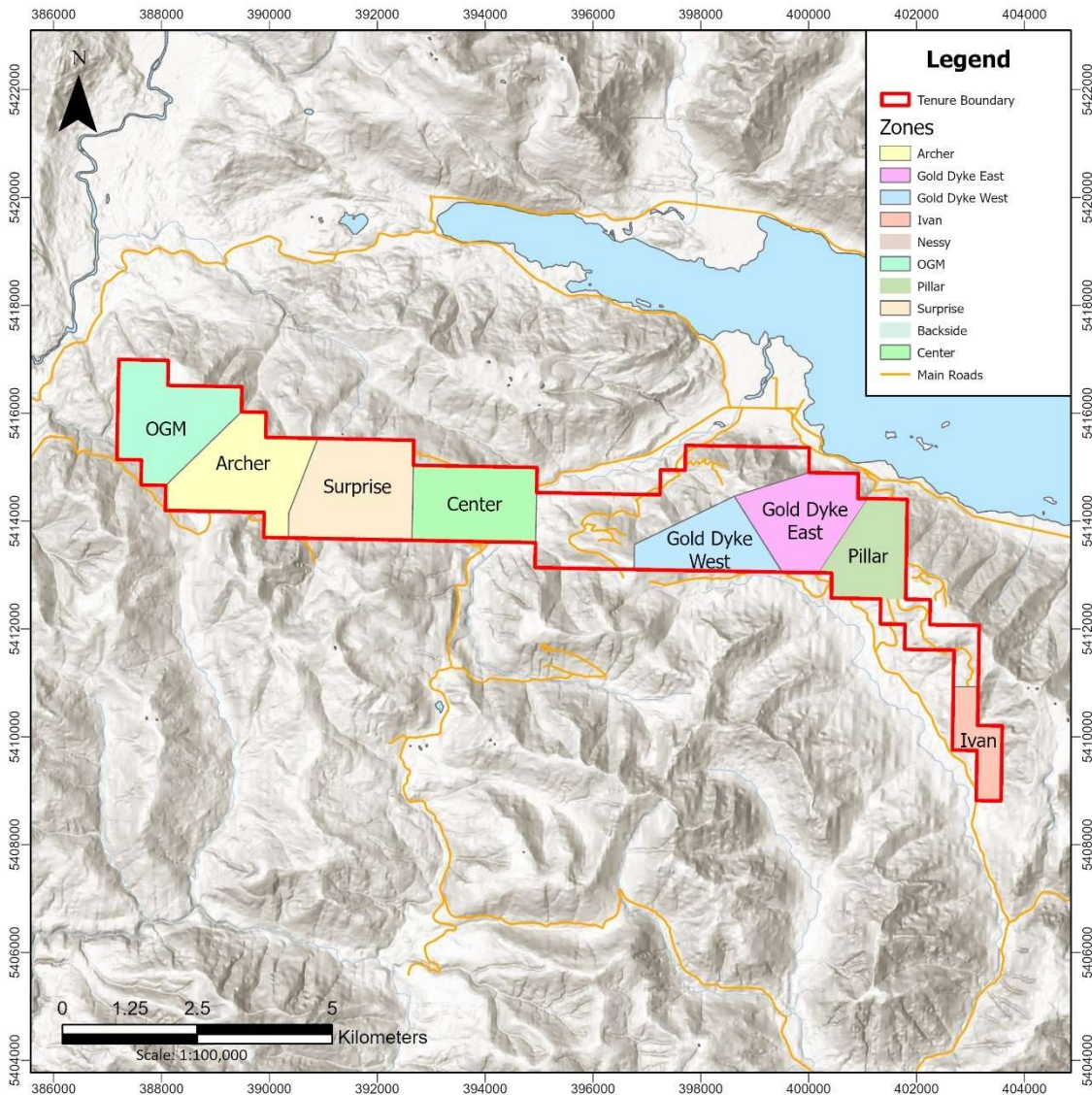


Figure 6. Cowichan Lake Zones

Archer Zone (MINFILE 092C064)

The Archer Zone is located on the southern side of Mount Vernon, and directly north of Raymond Creek. The area is dominated by clay-sericite-pyrite alteration which extends across the southern side of Mount Vernon. Within the clay-sericite alteration there exists abundant pyrite as disseminations, stringers, and shear fracture fill. Historically values up to 2.8 g/t Au and 11.5 g/t Ag were found near surface in drill core (Fischl 1988). In a news release from Nuspar Resources Ltd. (May 24, 1988) they reported surface chip sample values up to 47 g/t Au.

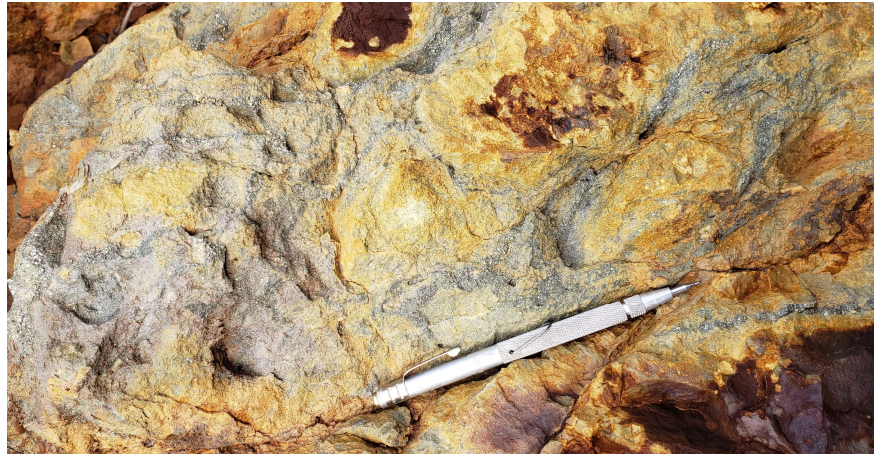


Figure 7. Pyrite stockwork on the Archer Zone

Surprise Zone

The Surprise Zone is located on the southern side of Mount Vernon, two kilometers further east than the Archer Zone. The area is dominated by the same clay-sericite-pyrite alteration as the Archer Zone and is potentially connected. Within the gossanous clay-sericite-zone there exists three distinct silica altered “dykes” that trend roughly NE-SW. The silica altered rocks are vuggy but barren.



Figure 8. Clay-sericite-pyrite alteration at the Surprise Zone

Center Zone

The Center Zone is located on the Southern side of Mount Vernon, approximately 1.2km west of the Surprise Zone. The area shows the same clay-sericite-pyrite alteration as the Archer and Surprise zones. Sampling done in 2022 shows quartz-carbonate veining with copper mineralization (up to 1.10% Cu).



Figure 9. Clay-sericite-pyrite alteration along road cut in the Center Zone

Gold Dyke West

The Gold Dyke West zone is located west of the Gold Dyke showing. It is dominated by intense clay-sericite-pyrite alteration that continues along the south-east facing slope for approximately 1.5km. Thin shears with increased pyrite are common.



Figure 10. Clay alteration at the Gold Dyke West Zone

Gold Dyke East (MINFILE 092C042)

The Gold Dyke East zone includes the Gold Dyke MINFILE showing and further east. Drilling in 1986 revealed pyrite, galena, sphalerite, chalcopyrite, and arsenopyrite within quartz-carbonate and quartz veins. A drill core sample assayed 3.9g/t Au, 4.9g/t Ag, 1% Pb, and 4% Zn (Payne 1987). On the surface where they drilled is the Gold Dyke showing, a coxcomb quartz vein with sphalerite, galena, and pyrite. Surrounding the vein is clay-sericite-pyrite alteration. The clay-sericite-pyrite alteration continues to the east at least 800m and is intense on the ridge, further south the alteration changes to be more dominantly silica altered with pyrite.



Figure 11. The Gold Dyke Zone (looking West from Pillar)

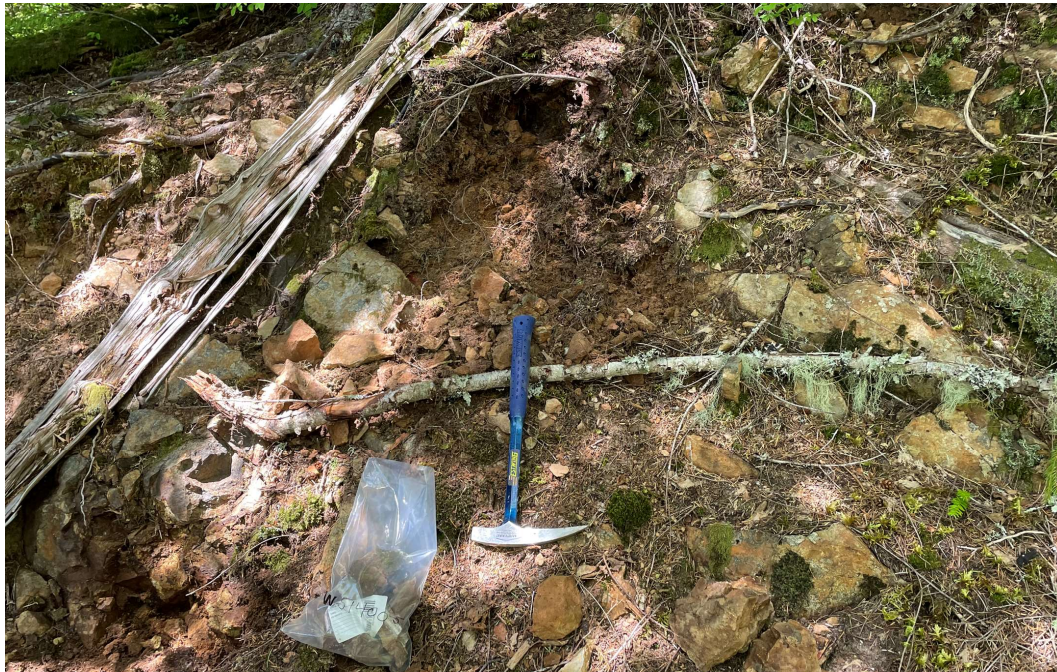


Figure 12. Gold Dyke Showing

Pillar Zone

The Pillar zone is located 2km east of the Gold Dyke East zone and shows a deep red ridge with silica alteration on the top of the ridge, and clay-sericite-pyrite alteration along the side slopes. Within the silica altered ridge top there is vuggy quartz veining with weak Arsenic.



Figure 13. Pillar Zone (looking east from Gold Dyke)



Figure 14. Silica alteration on the Pillar Zone

Ivan Zone

The Ivan zone is located 2.8km south-east of the Pillar Zone and centers around Ivan Creek. The area between the two zones has variable clay-sericite-pyrite alteration with increased alteration centering around shear zones. The Ivan zone shows increased clay-sericite-pyrite alteration.



Figure 15. Pillar and Ivan Zone looking North



Figure 16. Clay-Sericite-Pyrite alteration at the Ivan Zone

6 **2023** EXPLORATION PROGRAM

On February 20, 2023 Darcy and Alfred Vis hiked into the Center Zone and completed a continuous series of samples along a Road Cut through gossan and over a quartz vein. These samples were then scanned with an XRF.



Figure 17. Drone image of the Central Zone

On May 20, 2023 Darcy Vis and the team from Tripoint Geological Services went up to the Gold Dyke zone and collected 14 soils samples, 7 biogeochemical samples, and 4 rock samples. These samples were sent for assay at ALS Labs in North Vancouver.

7 **SAMPLE PREPARATION, ANALYSIS AND SECURITY**

Rock Samples

Rock samples were collected from chips off outcrop and placed in clear plastic polyore bags, a sample tag was placed in the bag, and the sample ID was written in permanent marker on the outside of the bag. The bag was sealed with a zip tie. When back from the field the bags were opened, the samples were cut using a rock saw, the samples were photographed, then they were repackaged and shipped to ALS Geochemistry in North Vancouver via Canada Post. The rock samples were prepped at ALS using PREP-31 and analyzed using Au-AA23 and ME-MS61.

Soil Samples

Soil was collected from the “B” Horizon in sample pits and placed into a paper kraft bag, a sample tag was placed in the bag, and the sample ID was written in permanent marker on the outside of the bag. The bag was sealed with flagging tape. When back from the field the bags were left out to air dry, then repackaged and shipped to ALS Geochemistry in North Vancouver via Canada Post. The soils underwent PREP-41, then aqua regia using the ALS code AuME-TL43.

Biogeochemical Samples

Fern fronds were collected into a poly ore bag, a sample tag was added, and the bag was sealed. Back in the office the leaves were air dried, repackaged, and shipped to ALS Labs in North Vancouver. At the lab they underwent ashing, then were processed using the ALS code ME-VEG41.

Continuous Rock Sampling

A road cut was cleaned off using shovels and pickaxes. A measuring tape was used to measure 2m intervals and rock was chipped off the face along the intervals. These chips were placed in poly ore bags, with sample tags, and sealed. The start and end of the sample line was measured using a Garmin 64 GPS. The samples were XRF'd using an Olympus Vanta XRF unit.

8 PROGRAM RESULTS

In 2023 sampling focused mainly over the Central and Gold Dyke West Zones. A total of 4 rock samples were collected for assay over the Gold Dyke West Zone, sample F928804 returned 0.389ppm Au, 552ppm As, and 142ppm Cu extending potential veins south of the main showing. Sample F928803 was collected near the main showing with values of 0.105ppm Au and 406ppm Cu. The soil lines returned up to 0.016ppm Au in sample F928655 on the western line, and copper values up to 49ppm. The biogeochemical sampling matched closely with the soil samples and can be considered for more widespread use.

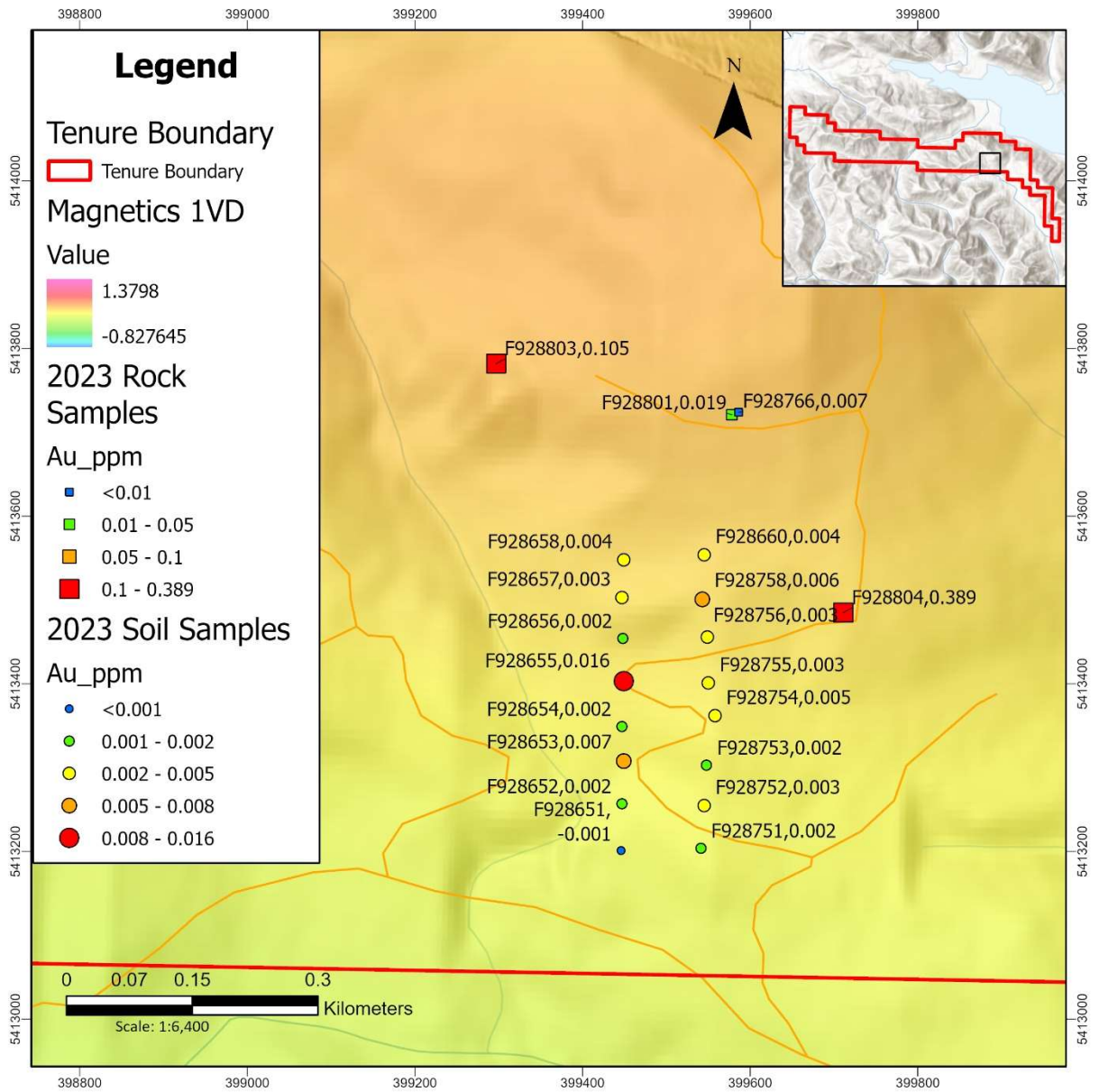


Figure 18. Au rock and soil samples over the Gold Dyke Zone

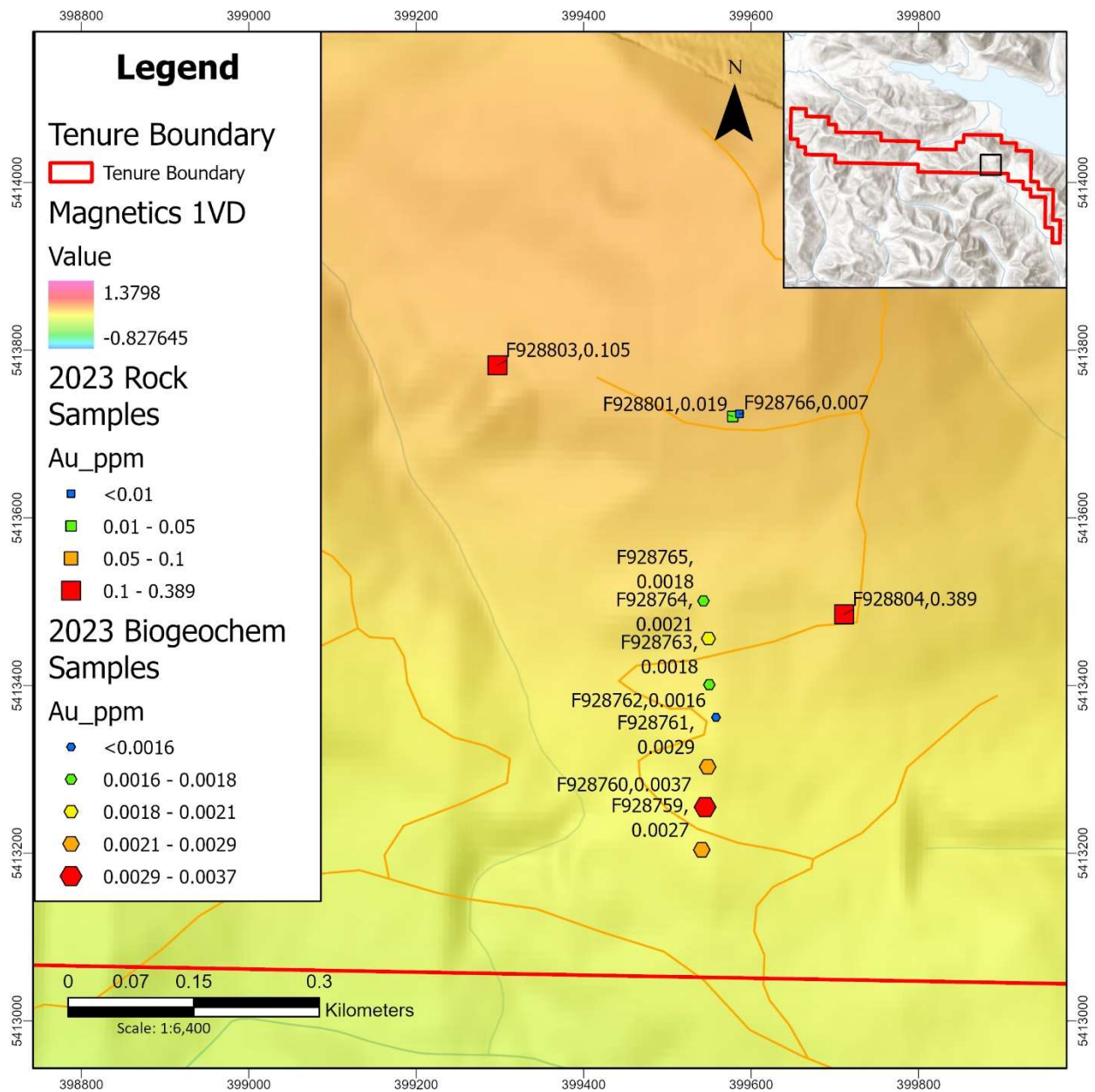


Figure 19. Au rock and biogeochemical samples over the Gold Dyke Zone

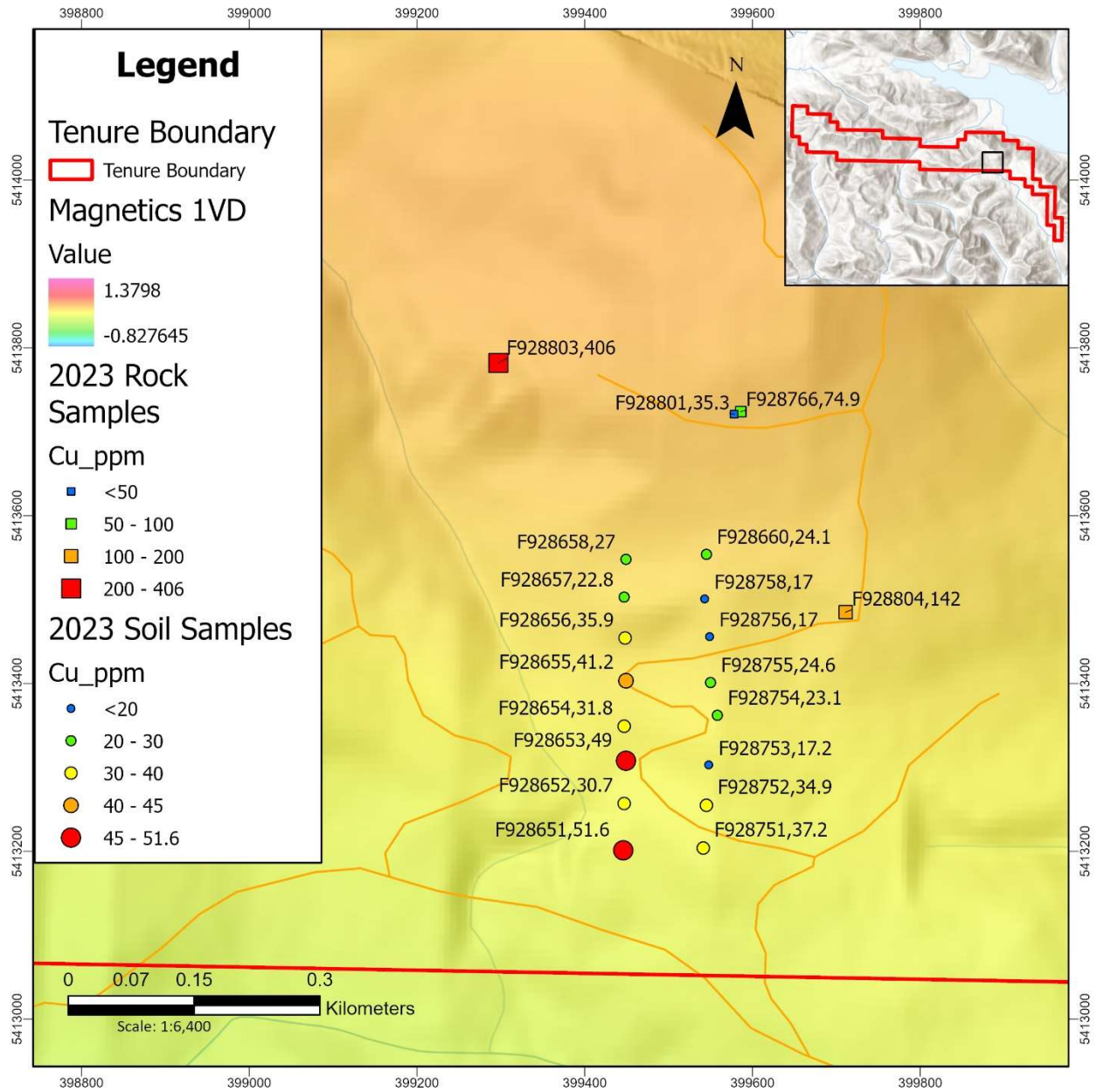


Figure 20. Cu rock and soil samples over the Gold Dyke Zone

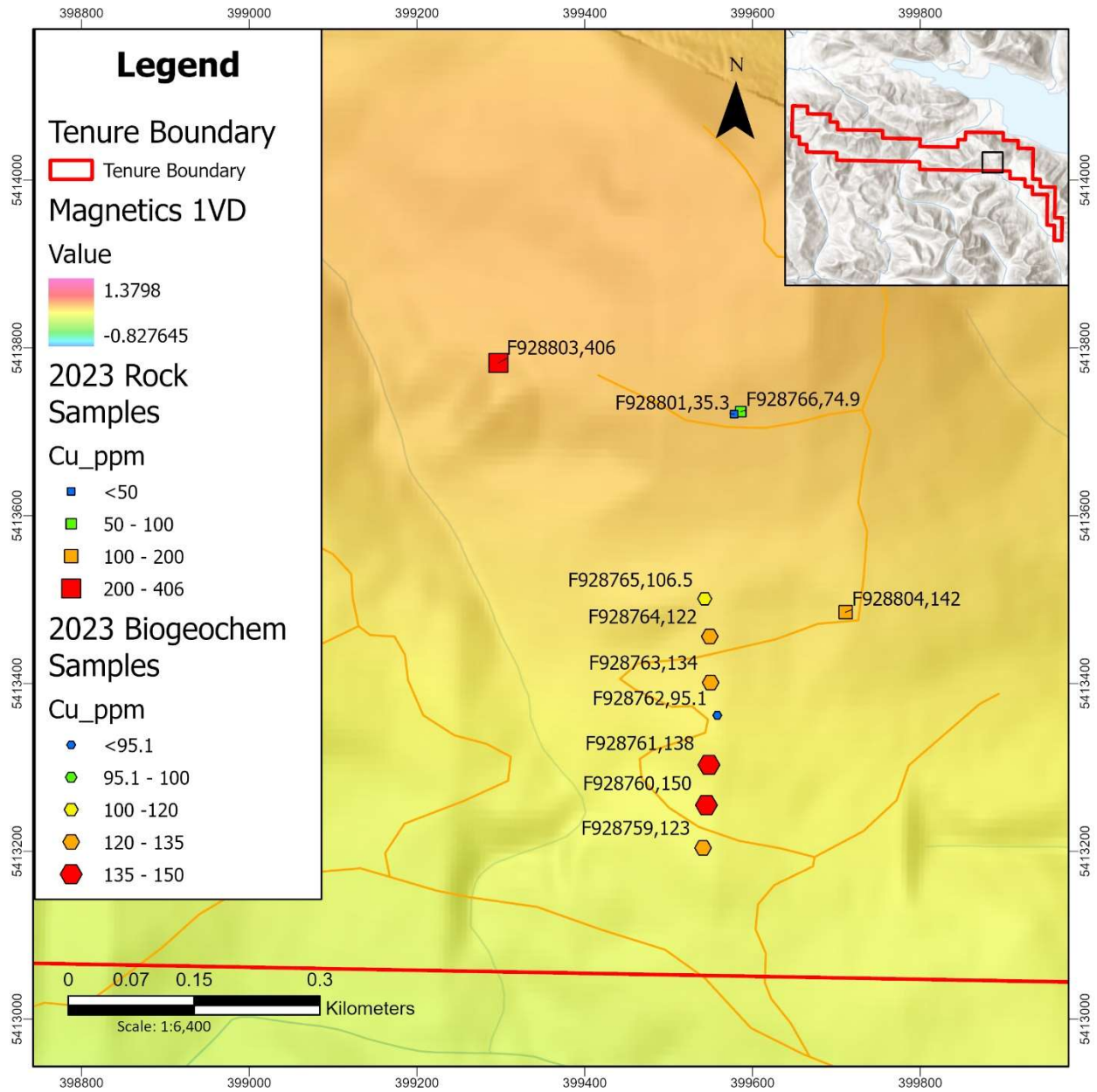
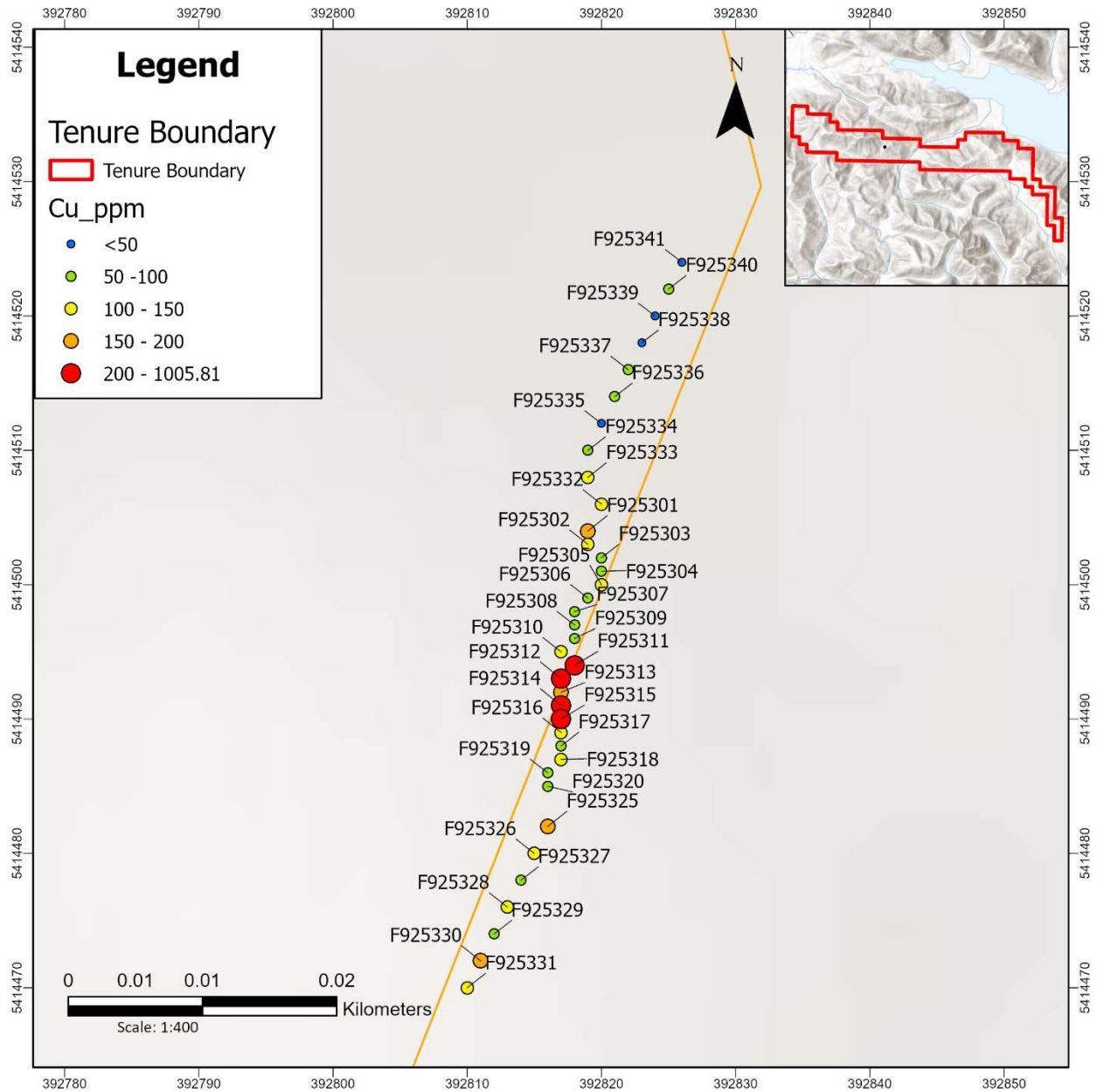


Figure 21. Cu rock and biogeochemical samples over the Gold Dyke Zone

Over the central zone 36 samples were collected along a 50m road cut. The samples show a clear copper anomaly surrounding a quartz vein.



9 DISCUSSION AND CONCLUSIONS

The continuous rock sampling over the Central Zone indicates a roughly 200m long alteration zone with variable alteration minerals. Intense alteration dominated by clay indicate a potential lithocap

environment surrounding a copper bearing quartz vein. The quartz vein should be traced along strike to determine its extents.

Rock sampling over the Gold Dyke West zone indicate quartz-carbonate veining along strike of the main showing. The soil sampling and biogeochemical sampling indicate elevated gold and copper on the southern portion of the line, indicating a potential quartz vein below overburden. Further work is recommended to extend the soils over the entirety of the area.

10 RECOMMENDATIONS

Further exploration work is recommended on the property including:

- 1) Continued soil sampling on Gold Dyke East and West utilizing different methods (conventional, Ah horizon, soil pH), to determine the most effective way to see through overburden.
- 2) Local scale alteration mapping using a SWIR ASD Device (Terraspec Halo).
- 3) Completing a tighter grid geomagnetic survey.
- 4) Diamond Drilling.

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APPENDIX A

STATEMENT OF EXPENDITURES

2023 Cowichan Property Statement of Costs

Project Planning

Personnel (Name)	Hours	Rate	Subtotal*
Darcy Vis	5	\$105.00	\$525.00
			\$525.00

Field Work

Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*
Darcy Vis/Geologist	Feb 20, 2023, May 20, 2023, July 27, 2023	3	\$1,050.00	\$3,150.00
Alfred Vis/Field Assistant	20-Feb-23	1	\$450.00	\$450.00
Michael Brinton/Geologist	May 20, 2023, July 27, 2023	2	\$1,050.00	\$2,100.00
Jerry Lei/Geologist	2023-05-20	1	\$780.00	\$780.00
Ralph Arndt/Junior Geologist	2023-05-20	1	\$680.00	\$680.00
Katarina /Junior Geologist	2023-05-20	1	\$680.00	\$680.00
Maya Saldanha/ Field Assistant	2023-05-20	1	\$580.00	\$580.00
Mia Guantero/ Field Assistant	2023-05-20	1	\$580.00	\$580.00
Alex Piepjohn/ Field Assistant	2023-05-20	1	\$580.00	\$580.00
				\$9,580.00

Post Field Cleanup

Personnel (Name)	Hours	Rate	Subtotal*	
Darcy Vis	Rock cutting, sampling, data cleanup	5	\$65.00	\$325.00
			\$325.00	

Office Studies

Personnel (Name)	Hours	Rate	Subtotal*
General Research	15	\$65.00	\$975.00
Report Preparation	20	\$65.00	\$1,300.00
			\$2,275.00

Geochemical Surveying

Number of Samples	No.	Rate	Subtotal	
Rock Samples (includes GST)	4 Rock Samples	4.0	\$70.25	\$281.00
Soil Samples (includes GST)	14 Soil Samples	14.0	\$51.19	\$716.68
Biogeochemical Samples	7 Biogeochemical Samples	7.0	\$54.62	\$382.32
			\$1,380.00	

Transportation

	Subtotal	
Truck Mileage	732km @ \$0.68/km	\$497.76
		\$497.76

Accommodation & Food

Meals (\$40/day/person)	12.00	\$40.00	\$480.00
			\$480.00

Equipment Rentals

XRF Rental	1.00	\$270.00	\$270.00
Terraspec Rental	1.00	\$310.00	\$310.00
			\$580.00

Shipping

Shipping		\$0.00	\$45.00
			\$45.00

Supplies

Consumable supplies (includes GST)		\$0.00	\$100.00
			\$100.00

TOTAL Expenditures

\$15,787.76

APPENDIX B

STATEMENT OF QUALIFICATIONS

I, Darcy Vis, do hereby declare that:

- 1) I am the author of the report titled "Assessment Report on the Cowichan Property 2023", relating to the Cowichan Property;
- 2) At the time of writing this report I am the claim holder of the Cowichan Claims;
- 3) I hold a Bachelor of Science (B.Sc.) in Earth Sciences granted by the University of Victoria in 2017;
- 4) I am a Professional Geologist with the Engineers and Geoscientists British Columbia (EGBC), Member Number #52017;
- 5) I have been involved in the mineral exploration of gold, silver, copper, and nickel in Canada and the United States since 2010; and
- 6) I am not aware of any material fact or material change with respect to the subject matter of this report.

Dated at Victoria, British Columbia with effective date of December 21, 2023.

A handwritten signature in black ink, appearing to read "Darcy Vis". The signature is written in a cursive, flowing style.

Darcy Vis, B.Sc., P.Geol.

APPENDIX C

SAMPLE DETAIL TABLES

Project	SampleID	Zone	Date	Northing	Easting	Lithology	Method	Au_ppm	Ag_ppm	Al_%	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%
Cowichan	F928801	Gold Dyke	2023-05-20	5413721	399578	Tuff	ME-MS61	0.019	1.3	3.74	21.3	1290	0.34	0.02	0.18
Cowichan	F928803	Gold Dyke	2023-05-20	5413782	399297	Tuff	ME-MS61	0.105	6.85	1.59	40.4	4310	0.22	0.05	0.04
Cowichan	F928804	Gold Dyke	2023-05-20	5413485	399711	Tuff	ME-MS61	0.389	0.87	5.58	552	920	0.27	0.08	0.06
Cowichan	F928766	Gold Dyke	2023-05-20	5413724	399586	Tuff	ME-MS61	0.007	1.05	4.3	19.7	3200	0.39	0.01	0.32

Project	SampleID	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Fe_%	Ga_ppm	Ge_ppm	Hf_ppm	In_ppm	K_%	La_ppm	Li_ppm	Mg_%
Cowichan	F928801	7.16	61.3	3.4	18	0.59	35.3	0.97	7.92	0.12	0.9	0.03	0.93	30.3	33.6	0.09
Cowichan	F928803	0.92	6.45	0.3	20	0.28	406	2.3	5.2	<0.05	0.3	0.028	0.6	3.5	21.7	0.07
Cowichan	F928804	0.2	13.25	8	14	0.69	142	8.47	17.45	0.09	0.8	0.025	1.11	6.9	16.8	1.65
Cowichan	F928766	9.3	16	6.8	12	0.69	74.9	1.35	8.52	0.06	1.1	0.026	0.9	8	35.9	0.13

Project	SampleID	Mn_ppm	Mo_ppm	Na_%	Nb_ppm	Ni_ppm	P_ppm	Pb_ppm	Rb_ppm	Re_ppm	S_%	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm	Sr_ppm
Cowichan	F928801	75	3.25	0.02	2.8	1.9	760	219	27.6	<0.002	0.08	55	12.2	1	0.4	73.6
Cowichan	F928803	77	2.7	0.02	0.9	1.4	180	1135	16	0.004	0.2	61.8	2.3	3	0.2	130
Cowichan	F928804	998	1.51	0.98	3.4	4	1000	135.5	42	0.004	0.56	6.55	13.6	1	0.5	41.2
Cowichan	F928766	230	1.4	0.02	3.2	3.4	670	955	28.2	<0.002	0.15	63	8.2	1	0.4	72.7

Project	SampleID	Ta_ppm	Te_ppm	Th_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm	Zr_ppm
Cowichan	F928801	0.15	0.1	1.24	0.259	0.17	0.5	119	1.9	23.1	452	30.6
Cowichan	F928803	0.05	0.95	0.6	0.051	0.15	0.2	43	0.3	2.1	188	10.7
Cowichan	F928804	0.18	0.6	1.5	0.299	0.52	0.4	160	1.8	3.5	182	26.6
Cowichan	F928766	0.18	<0.05	1.44	0.333	0.23	0.5	92	2.2	13.2	218	35.5

Project	Sample ID	Easting	Northing	Elevation	Sample Type	Sampler	Sample Date	Sample Depth (cm)	Soil Horiz	Colour Shade	Colour 1	Colour 2	Sediment
COW	F928651	399446	5413201	549.4963	SOIL	Michael Brinton	5/20/2023	13	B	L	BN		SLT
COW	F928652	399447	5413257	552.6101	SOIL	Jerry Lei	5/20/2023	19	B	M	BN		SND
COW	F928653	399449	5413308	569.7473	SOIL	Jerry Lei	5/20/2023	30	B	L	BN		SLT
COW	F928654	399447	5413349	582.8389	SOIL	Jerry Lei	5/20/2023	10	B	L	BN	OR	SLT
COW	F928655	399449	5413403	596.6782	SOIL	Jerry Lei	5/20/2023	20	B	L	BN		SLT
COW	F928656	399448	5413454	607.1907	SOIL	Ralph Arndt	5/20/2023	15	B	L	BN		SLT
COW	F928657	399447	5413503	614.7661	SOIL	Ralph Arndt	5/20/2023	20	B	L	BN		SLT
COW	F928658	399449	5413548	631.1008	SOIL	Jerry Lei	5/20/2023	30	B	M	BN		SLT
COW	F928660	399545	5413554	642.5175	SOIL	Jerry Lei	5/20/2023	30	B	M	BN		SLT
COW	F928751	399541	5413204	573.6475	SOIL	Darcy Vis	5/20/2023	30	B	L	BN		CLY
COW	F928752	399545	5413255	570.7585	SOIL	Darcy Vis	5/20/2023	47	B	L	BN	GY	CLY
COW	F928753	399548	5413303	574.5994	SOIL	Maya Saldanha	5/20/2023	31	B	M	BN	GY	SLT
COW	F928754	399558	5413362	585.2893	SOIL	Darcy Vis	5/20/2023	30	B	M	BN	RD	SLT
COW	F928755	399550	5413401	609.1611	SOIL	Darcy Vis	5/20/2023	35	B	M	BN		SLT
COW	F928756	399549	5413456	620.6946	SOIL	Katarina Horvat	5/20/2023	27	B	M	BN	OR	SLT
COW	F928758	399543	5413501	629.2683	SOIL	Mia Guantero	5/20/2023	23	B	M	OR		SLT

Project	Sample ID	Sediment	Sediment	Moisture	Organics %	Sample Comments	Au_ppm	Ag_ppm	Al_%	As_ppm	B_ppm	Ba_ppm	Be_ppm
COW	F928651	SND		DRY	1		-0.001	0.09	3.98	7.3	-10	100	0.54
COW	F928652	SLT		DRY	5	On small shaded hill	0.002	0.19	3.28	3	-10	60	0.3
COW	F928653	SND		DMP	2	Near old overgrown road	0.007	0.07	4.06	5.2	-10	80	0.54
COW	F928654	CLY		DRY	0		0.002	0.17	4.43	3.7	-10	80	0.41
COW	F928655	SND		DRY	5	Point of road moved off road	0.016	0.11	3.77	4.4	-10	120	0.69
COW	F928656	SND		DMP	10		0.002	0.14	4.67	4.4	-10	100	0.45
COW	F928657			DMP	5	Lot of tree near sample	0.003	0.13	3.56	4.5	-10	70	0.37
COW	F928658			DMP	5	Edge of small clearing	0.004	0.13	3.77	4.9	-10	130	0.53
COW	F928660	CLY		DMP	5		0.004	0.12	2.62	3.5	-10	180	0.33
COW	F928751	SLT		DMP	2	Near road	0.002	0.14	4.53	4.1	-10	210	0.76
COW	F928752			MST	3		0.003	0.04	3.51	5	-10	190	0.55
COW	F928753	CLY		DMP	3		0.002	0.06	2.69	2.3	-10	120	0.31
COW	F928754	CLY		DMP	5	Sample taken close to a dirt road. Poorly	0.005	0.08	3.08	2.6	-10	270	0.89
COW	F928755			DRY	5	Drainage area	0.003	0.11	3.3	2.7	-10	460	1
COW	F928756	CLY		DMP	5		0.003	0.07	2.36	3.1	-10	100	0.23
COW	F928758			DRY	5		0.006	0.18	2.84	2.7	-10	80	0.31

Project	Sample ID	Bi_ppm	Ca_%	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Fe_%	Ga_ppm	Ge_ppm	Hf_ppm	Hg_ppm	In_ppm	K_%	La_ppm
COW	F928651	0.09	0.1	0.18	29.7	17.3	14	0.45	51.6	5.76	9.19	-0.05	0.13	0.17	0.038	0.04	6.4
COW	F928652	0.08	0.08	0.14	6.51	10.1	11	0.47	30.7	5.17	10.05	-0.05	0.04	0.11	0.033	0.03	3.6
COW	F928653	0.07	0.08	0.09	17.7	16.6	17	0.44	49	5.86	8.83	-0.05	0.09	0.13	0.042	0.04	5.6
COW	F928654	0.08	0.05	0.11	6.51	12.9	15	0.52	31.8	5.81	10.6	-0.05	0.05	0.18	0.046	0.04	3.5
COW	F928655	0.07	0.12	0.13	27.3	18.1	14	0.33	41.2	5.26	8.84	0.05	0.08	0.14	0.038	0.06	11.1
COW	F928656	0.08	0.09	0.1	11.3	15.1	11	0.43	35.9	6	11.5	-0.05	0.05	0.15	0.046	0.06	5.3
COW	F928657	0.1	0.13	0.11	9.27	10.8	11	0.41	22.8	6.27	11.95	-0.05	0.06	0.09	0.043	0.05	4.7
COW	F928658	0.08	0.14	0.11	10.1	14.5	10	0.43	27	5.18	10.25	-0.05	0.06	0.11	0.034	0.06	5.3
COW	F928660	0.07	0.23	0.37	8.53	12.1	9	0.45	24.1	5.45	8.54	-0.05	0.03	0.03	0.029	0.03	5.2
COW	F928751	0.09	0.25	0.21	20.9	21.1	15	0.59	37.2	5.19	11.05	-0.05	0.08	0.1	0.042	0.06	8.1
COW	F928752	0.08	0.27	0.13	16.8	17.3	18	0.49	34.9	5.69	10.5	-0.05	0.08	0.09	0.04	0.06	6.3
COW	F928753	0.09	0.19	0.14	7.63	9.8	10	0.38	17.2	5.37	9.05	-0.05	0.06	0.07	0.032	0.04	4.2
COW	F928754	0.07	0.26	0.34	31.5	31.1	11	0.38	23.1	4.5	7.22	0.06	0.09	0.09	0.034	0.05	12.6
COW	F928755	0.07	0.43	0.91	43.2	19	11	0.45	24.6	4.68	7.37	0.05	0.07	0.08	0.033	0.04	10
COW	F928756	0.1	0.15	0.23	7.02	9.8	8	0.31	17	5.13	9.77	-0.05	0.05	0.05	0.026	0.05	3.7
COW	F928758	0.1	0.11	0.2	7.81	9.8	8	0.37	17	5.43	8.93	-0.05	0.03	0.05	0.029	0.04	4.1

Project	Sample ID	Li_ppm	Mg_%	Mn_ppm	Mo_ppm	Na_%	Nb_ppm	Ni_ppm	P_ppm	Pb_ppm	Rb_ppm	Re_ppm	S_%	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm
COW	F928651	12	0.89	459	0.71	0.01	0.83	9.4	710	18.9	8	-0.001	0.02	0.43	9.1	0.8	0.5
COW	F928652	14.7	0.45	342	0.48	0.01	0.4	5.8	740	7.7	7.7	-0.001	0.02	0.28	4.7	0.3	0.6
COW	F928653	14.6	0.82	457	0.5	0.01	0.39	10.6	1400	6.8	8.5	-0.001	0.01	0.29	9	0.5	0.5
COW	F928654	20.6	0.58	333	0.52	0.01	0.37	8.3	820	7.1	9.2	-0.001	0.02	0.22	5	0.5	0.5
COW	F928655	11.9	0.71	709	0.56	0.01	0.53	8.7	970	8.8	7.6	-0.001	0.02	0.26	8.4	0.7	0.5
COW	F928656	16.1	0.74	480	0.64	0.01	0.43	7.7	940	6.9	10.2	-0.001	0.02	0.13	7.1	0.6	0.6
COW	F928657	16.6	0.61	413	0.68	0.01	0.54	5.5	930	8.1	6.5	-0.001	0.02	0.2	5.6	0.5	0.6
COW	F928658	15.8	0.62	782	0.52	0.01	0.47	6.6	1300	10.1	9.8	-0.001	0.02	0.16	5.8	0.4	0.5
COW	F928660	13.9	0.68	364	0.5	0.01	0.23	5.4	480	9.9	9.3	-0.001	0.01	0.26	4.9	0.3	0.5
COW	F928751	15.3	0.76	1815	0.85	0.01	0.41	11.1	990	17.9	12.6	-0.001	0.03	0.18	7.3	0.7	0.5
COW	F928752	14.8	1.09	864	0.51	0.01	0.42	14	970	9.9	8.9	0.001	0.02	0.34	7.4	0.5	0.5
COW	F928753	10.4	0.46	594	0.68	0.03	0.48	5.3	680	7.1	6.6	-0.001	0.03	0.27	4.1	0.3	0.6
COW	F928754	10.3	0.6	2320	0.8	0.03	0.55	8.1	880	7.7	8.1	-0.001	0.05	0.24	6.4	0.5	0.4
COW	F928755	14.4	0.76	2390	0.5	0.03	0.33	11.6	820	7.8	10.1	0.002	0.04	0.27	5.6	0.8	0.4
COW	F928756	10.7	0.45	423	0.44	0.03	0.5	5	840	8.2	5.3	-0.001	0.02	0.25	4.4	0.3	0.6
COW	F928758	10	0.5	412	0.53	0.03	0.18	4.7	630	7.4	7	-0.001	0.02	0.27	4.7	0.3	0.5

Project	Sample ID	Sr_ppm	Ta_ppm	Te_ppm	Th_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm	Zr_ppm
COW	F928651	7.9	-0.01	0.22	1.1	0.011	0.06	0.44	141	-0.05	5.74	106	4.6
COW	F928652	6.9	-0.01	0.08	0.6	-0.005	0.06	0.23	141	-0.05	1.65	82	1.5
COW	F928653	6.2	-0.01	0.16	1.3	0.008	0.05	0.38	136	-0.05	5.28	87	3.2
COW	F928654	4.8	-0.01	0.09	0.8	-0.005	0.06	0.25	133	-0.05	1.8	100	1.7
COW	F928655	8.4	-0.01	0.1	1	0.005	0.06	0.36	130	-0.05	8.51	72	2.7
COW	F928656	7.1	-0.01	0.09	0.9	-0.005	0.06	0.29	146	-0.05	3.46	83	1.9
COW	F928657	8.3	-0.01	0.09	0.7	0.006	0.05	0.27	159	-0.05	2.91	67	2.1
COW	F928658	9.9	-0.01	0.11	0.6	0.005	0.06	0.28	129	-0.05	3.38	93	1.9
COW	F928660	12.7	-0.01	0.08	0.5	0.006	0.04	0.2	141	-0.05	3.22	99	1.3
COW	F928751	13.8	-0.01	0.11	0.8	0.005	0.09	0.45	130	-0.05	7.62	136	1.9
COW	F928752	15.3	-0.01	0.12	0.9	0.017	0.04	0.42	130	-0.05	5.91	133	2.1
COW	F928753	9.9	-0.01	0.07	0.6	0.006	0.05	0.25	142	-0.05	2.24	68	1.5
COW	F928754	14.6	-0.01	0.06	0.5	0.008	0.07	0.4	110	-0.05	11.85	74	2.1
COW	F928755	20.9	-0.01	0.09	0.5	0.007	0.08	0.37	104	-0.05	11.1	132	1.6
COW	F928756	7.8	-0.01	0.07	0.6	0.007	0.04	0.22	144	-0.05	2.14	63	1.5
COW	F928758	7.5	-0.01	0.06	0.7	0.005	0.05	0.2	141	-0.05	2.02	59	1.1

Project	Sample ID	Easting	Northing	Elevation	Sample Type	Vegetation	Type	Recvd Wt.	Au_ppm	Ag_ppm	Al_%	As_ppm	B_ppm	Ba_ppm	Be_ppm
COW	F928759	399541	5413204	573.6475	Biogeochem	Fern	FronD	0.08	0.0027	0.111	1.24	4.2	220	959	0.03
COW	F928760	399545	5413255	570.7585	Biogeochem	Fern	FronD	0.1	0.0037	0.223	1.45	4.85	288	819	0.04
COW	F928761	399548	5413303	574.5994	Biogeochem	Fern	FronD	0.1	0.0029	0.182	1.07	4.48	290	780	0.04
COW	F928762	399558	5413362	585.2893	Biogeochem	Fern	FronD	0.1	0.0016	0.132	1.04	3.33	295	942	0.07
COW	F928763	399550	5413401	609.1611	Biogeochem	Fern	FronD	0.08	0.0018	0.872	0.74	4.16	205	802	0.02
COW	F928764	399549	5413456	620.6946	Biogeochem	Fern	FronD	0.11	0.0021	0.178	1.09	3.62	222	782	0.05
COW	F928765	399543	5413501	629.2683	Biogeochem	Fern	FronD	0.11	0.0018	0.58	0.76	3.2	262	933	0.06

Project	Sample ID	Bi_ppm	Ca_%	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Fe_ppm	Ga_ppm	Ge_ppm	Hf_ppm	Hg_ppm	In_ppm	K_%
COW	F928759	0.02	7.41	0.888	254	1.175	4.38	0.479	123	1800	0.329	0.145	0.044	0.004	0.017	>10.0
COW	F928760	0.041	7.64	1.805	339	0.928	13.6	0.389	150	1700	0.15	0.217	0.035	0.005	0.006	>10.0
COW	F928761	0.026	7.59	1.33	219	1.275	10.75	0.298	138	1300	0.174	0.115	0.023	0.003	0.01	>10.0
COW	F928762	0.02	7.22	0.28	387	1.015	6.29	0.587	95.1	1200	0.039	0.24	0.027	0.004	0.009	>10.0
COW	F928763	0.025	7.7	2.24	113	0.762	7.21	0.287	134	1200	0.122	0.163	0.03	0.001	0.007	>10.0
COW	F928764	0.022	7.25	2.38	244	2	6.01	0.455	122	1200	0.153	0.106	0.06	0.002	0.007	>10.0
COW	F928765	0.029	6.75	0.803	301	1.585	6.15	0.361	106.5	1200	0.072	0.123	0.039	0.002	0.014	>10.0

Project	Sample ID	La_ppm	Li_ppm	Mg_%	Mn_ppm	Mo_ppm	Na_%	Nb_ppm	Ni_ppm	P_%	Pb_ppm	Pd_ppm	Pt_ppm	Rb_ppm	Re_ppm	S_%
COW	F928759	250	0.8	4.01	1520	0.43	0.18	0.073	6.25	3.65	5.45	<0.001	<0.002	440	<0.001	2.72
COW	F928760	320	0.7	3.69	1740	0.8	0.173	0.067	11.8	3.59	7.14	<0.001	<0.002	403	0.001	2.57
COW	F928761	166	0.6	3.2	2900	1.13	0.112	0.046	15.45	3.6	8.98	<0.001	<0.002	287	0.001	2.28
COW	F928762	340	0.7	4.15	1560	0.61	0.132	0.059	9.08	3.53	4.4	<0.001	<0.002	470	0.001	2.35
COW	F928763	280	0.7	4.82	1950	0.62	0.189	0.046	8.54	3.43	4.37	<0.001	<0.002	530	0.001	3.31
COW	F928764	178.5	0.7	3.88	2130	0.52	0.2	0.04	7.94	3.51	3.5	<0.001	<0.002	460	<0.001	2.11
COW	F928765	240	0.7	4.5	1840	0.44	0.161	0.048	7.79	3.58	3.7	<0.001	<0.002	530	<0.001	2.4

Project	Sample ID	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Te_ppm	Th_ppm	Ti_%	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm
COW	F928759	6.35	0.73	0.282	0.25	279	<0.001	0.006	0.081	0.005	0.009	0.032	5.12	0.1	73.7	504
COW	F928760	70.3	0.56	0.21	1.23	359	<0.001	0.006	0.094	0.004	0.011	0.036	3.57	0.19	86.1	614
COW	F928761	4.87	0.42	0.198	3.34	243	<0.001	<0.005	0.065	0.003	0.009	0.034	2.48	0.1	52.5	668
COW	F928762	4.35	0.5	0.307	0.78	301	<0.001	0.005	0.06	0.003	0.006	0.029	2.43	0.09	101.5	462
COW	F928763	4.58	0.42	0.362	0.77	266	<0.001	<0.005	0.055	0.002	0.004	0.023	2.06	0.1	73.9	564
COW	F928764	4.29	0.39	0.291	0.68	278	<0.001	<0.005	0.059	0.003	0.005	0.026	2.21	0.11	39	533
COW	F928765	3.6	0.35	0.284	0.47	260	<0.001	<0.005	0.059	0.002	0.003	0.025	2.14	0.06	48.8	412

Project	Sample ID	Zr_ppm
COW	F928759	1.85
COW	F928760	1.84
COW	F928761	1.25
COW	F928762	1.36
COW	F928763	1.61
COW	F928764	2.54
COW	F928765	1.72

SampleID	UTM_Easting	UTM_Northing	Type	From	To	Lith	Comments	Mag1	Mag2	Mag3	Mag_Avg	Terraspec_Output	Assay_Method	Ag_ppm
F925301	392819	5414504	Continuous Chip	0	1	Tuff	Start, 1m interval, Weak alteration, clay/chlorite, Tuff	4.465	5.83	16.41	8.902	Illite/Smectite	XRF	0
F925302	392819	5414503	Continuous Chip	1	2	Tuff	Clay/chl alt	2.252	6.555	6.688	5.165		XRF	0
F925303	392820	5414502	Continuous Chip	2	3	Tuff	Silica Flooding, hem alt, milky crystalline quartz (massive)	0.405	0.221	0.224	0.283	Illite/Smectite	XRF	0
F925304	392820	5414501	Continuous Chip	3	4	Tuff	Silica Flooding, hem alt, milky crystalline quartz (massive)	0.272	0.302	0.188	0.254		XRF	0
F925305	392820	5414500	Continuous Chip	4	5	Tuff	Crumbly, hem alt, clay	0.55	0.466	0.659	0.558	Illite/Smectite	XRF	0
F925306	392819	5414499	Continuous Chip	5	6	Tuff	Crumbly, hem alt, qtz-clay	0.267	0.298	0.276	0.280	Illite/Smectite	XRF	0
F925307	392818	5414498	Continuous Chip	6	7	Tuff	Calcite veins, crumbly, hem alt	0.307	0.287	0.256	0.283	Illite/Smectite	XRF	0
F925308	392818	5414497	Continuous Chip	7	8	Tuff		0.302	0.324	0.304	0.310	Illite/Smectite	XRF	0
F925309	392818	5414496	Continuous Chip	8	9	Tuff		0.312	0.237	0.31	0.286	Illite/Smectite	XRF	0
F925310	392817	5414495	Continuous Chip	9	10	Tuff	Hem alt, crumbly	0.396	0.335	0.4	0.377	Illite/Smectite	XRF	0
F925311	392818	5414494	Continuous Chip	10	11	Tuff	Very altered, clay	0.743	0.488	0.337	0.523		XRF	0
F925312	392817	5414493	Continuous Chip	11	12	Tuff	Quartz veining	0.222	0.245	0.156	0.208	Illite/Smectite	XRF	0
F925313	392817	5414492	Continuous Chip	12	13	Tuff	Clay alt	0.295	0.031	0.023	0.116	Illite/Smectite	XRF	0
F925314	392817	5414491	Continuous Chip	13	14	Tuff	Heavily weathered, clay alt	0.318	0.318	0.327	0.321	Illite/Smectite	XRF	0
F925315	392817	5414490	Continuous Chip	14	15	Tuff		0.432	0.436	0.437	0.435	Illite/Smectite	XRF	0
F925316	392817	5414489	Continuous Chip	15	16	Tuff		5.817	1.82	6.926	4.854		XRF	0
F925317	392817	5414488	Continuous Chip	16	17	Tuff		1.665	0.55	0.518	0.911	Illite	XRF	0
F925318	392817	5414487	Continuous Chip	17	18	Tuff	Quartz veining?	0.355	0.424	0.34	0.373	Illite/Smectite	XRF	0
F925319	392816	5414486	Continuous Chip	18	19	Tuff		13.77	9.25	4.569	9.196	Illite/Smectite	XRF	0
F925320	392816	5414485	Continuous Chip	19	20	Tuff	Fresh Rock	35.94	30.81	40.86	35.870	Illite	XRF	0
F925325	392816	5414482	Grab	22	22	Tuff	Crumbly	21.67	28.85	30.53	27.017	Chlorite/Epidote	XRF	0
F925326	392815	5414480	Grab	24	24	Tuff	Crumbly	2.805	2.07	3.528	2.801	Illite/Chlorite	XRF	0
F925327	392814	5414478	Grab	26	26	Tuff	Pretty much soil	3.138	2.95	2.882	2.990		XRF	0
F925328	392813	5414476	Grab	28	28	Tuff	Crumbly	4.601	1.877	4.987	3.822	Illite	XRF	0
F925329	392812	5414474	Grab	30	30	Tuff	Crumbly	0.558	0.583	0.452	0.531	Illite/Smectite	XRF	0
F925330	392811	5414472	Grab	32	32	Tuff	Fresh Rock	37.69	27.11	31.07	31.957		XRF	0
F925331	392810	5414470	Grab	34	34	Tuff	Chl/Epi Alt	3.928	3.696	3.663	3.762	Chlorite/Epidote	XRF	0
F925332	392820	5414506	Grab	-2	-2	Tuff	Hem alt	0.511	0.414	0.621	0.515		XRF	0
F925333	392819	5414508	Grab	-4	-4	Tuff		0.313	0.361	0.387	0.354	Illite/Smectite	XRF	0
F925334	392819	5414510	Grab	-6	-6	Tuff		0.254	0.207	0.31	0.257	Illite/Smectite	XRF	0
F925335	392820	5414512	Grab	-8	-8	Tuff		0.194	0.177	0.268	0.213	Illite/Smectite	XRF	0
F925336	392821	5414514	Grab	-10	-10	Tuff		0.374	0.374	0.659	0.469		XRF	0
F925337	392822	5414516	Grab	-12	-12	Tuff		0.572	0.535	0.432	0.513	Illite/Chlorite	XRF	0
F925338	392823	5414518	Grab	-14	-14	Tuff		0.514	0.502	0.405	0.474	Illite/Smectite	XRF	0
F925339	392824	5414520	Grab	-16	-16	Tuff		0.332	0.376	0.384	0.364	Illite	XRF	0
F925340	392825	5414522	Grab	-18	-18	Tuff		0.347	0.338	0.406	0.364	Illite/Chlorite	XRF	0
F925341	392826	5414524	Grab	-20	-20	Tuff		23.95	22.79	18.39	21.710	Chlorite/Epidote	XRF	0

SampleID	Al_ppm	As_ppm	Au_ppm	Ba_ppm	Bi_ppm	Ca_ppm	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_ppm	Hg_ppm	K_ppm	LE_ppm	La_ppm	Mg_ppm	Mn_ppm	Mo_ppm	Nb_ppm
F925301	3945.586	0	0	108.1943	0	925.0887	0	0	0	0	186.1088	36976.03	0	3303.206	945941.6	0	0	503.4946	7.825362	0
F925302	5759.914	0	0	103.9365	0	3666.193	0	58.55503	0	0	130.2135	36838.7	0	1336.213	931315.2	0	10051.27	538.3414	8.761947	0
F925303	5225.817	0	0	94.03036	0	3456.928	0	66.33056	0	0	81.56513	45692.37	0	708.7668	924009.2	66.30445	10813.59	188.8123	8.718066	0
F925304	4260.885	2.160917	0	145.406	0	3349.303	0	0	0	0	94.94944	58141.12	0	969.6187	916296	57.65046	8631.487	218.5439	10.42056	0
F925305	3327.557	2.505936	0	99.74878	0	3837.929	0	0	0	0	141.3193	39130.64	0	1135.863	936538.5	75.16826	6143.352	511.5613	6.987145	0
F925306	3639.289	7.2897	0	88.38136	0	3562.96	0	0	53.77918	0	99.81528	41526.09	0	904.0821	933785.2	48.02348	7953.234	281.3956	9.770535	0
F925307	9978.002	1.977492	0	96.07119	0	3559.756	0	0	79.1313	0	55.6382	43158.71	0	548.5507	920676.7	0	9460.14	332.9362	8.773082	0
F925308	3446.414	3.884322	0	76.32952	0	4036.26	0	63.34682	0	0	99.41423	35996.61	0	583.7446	937017.5	53.72067	10039.53	352.539	9.758666	0
F925309	3857.583	2.234302	0	68.13673	0	8246.617	0	0	43.71779	0	93.7065	28216.07	0	542.2795	940362.3	66.40182	9311.339	307.0488	8.687872	2.961917
F925310	3268.266	2.500387	0	60.98622	0	1976.737	0	0	0	0	133.2732	39655.69	0	565.0666	938011.1	0	7922.449	316.9711	7.736126	3.636438
F925311	8297.984	0	0	109.7397	0	1783.482	0	0	196.3558	0	447.7252	71233.81	0	386.5273	904323.7	0	0	234.2764	10.31917	0
F925312	4886.532	11.00385	0	78.90383	0	388.8446	0	0	157.2917	0	1005.812	79519.63	0	1252.768	897394.1	0	6581.479	164.058	24.11561	0
F925313	8373.041	0	0	97.9848	0	432.0342	0	0	0	0	180.5527	71685.46	0	2313.911	892108.9	0	8173.392	327.2597	12.7066	0
F925314	5829.567	3.125126	0	118.7709	0	237.6603	0	78.88892	0	0	280.4053	55256.95	0	2412.255	916687.2	0	5910.9	528.1489	7.512735	2.855136
F925315	6429.842	0	0	115.5484	0	1673.197	0	90.23719	0	0	261.3796	55951.47	0	1213	913420.7	0	6862.817	504.3544	6.424406	0
F925316	5180.66	4.440371	0	78.07519	0	2778.338	0	90.93771	0	0	136.6675	61899.59	0	642.7954	906729.6	75.23234	10892.62	934.8364	6.382159	0
F925317	4289.935	9.814021	0	82.53949	0	1808.766	0	0	0	0	86.31704	80986.9	0	709.8135	894037.9	0	8285.897	591.6957	7.786906	0
F925318	5454.031	4.253284	0	131.7839	0	655.1379	0	0	0	0	116.9356	54511.15	0	2892.421	916854.9	0	7300.96	1460.739	5.049529	2.639614
F925319	5877.085	0	0	90.06859	0	363.0773	0	0	126.7561	0	66.39871	38575.89	0	2663.884	929127.9	0	9773.838	689.8817	5.388175	0
F925320	4642.785	3.091179	0	140.5291	0	4833.718	0	0	177.2538	0	99.43163	46130.67	0	1869.763	918705.4	0	11958.89	591.5786	7.344014	0
F925325	6216.812	0	0	108.391	0	1671.154	0	62.34772	262.0376	0	156.3875	54465.29	0	1033.515	923145.5	0	0	748.2601	9.668369	0
F925326	5133.397	0	0	112.7923	0	1434.963	0	0	127.2516	0	126.5065	43134.95	0	823.3868	936950.3	0	0	511.2779	9.649049	0
F925327	4246.527	0	0	123.3662	0	2099.064	0	0	193.8342	0	51.64402	35636.41	0	1054.217	937467.3	0	6000.285	465.7812	7.056217	2.67206
F925328	4624.91	4.218527	0	162.2855	0	3540.415	0	0	150.5017	0	105.8991	43386.91	0	1641.525	925351.7	0	9377.303	606.0304	7.297198	0
F925329	5488.042	11.23383	0	55.8816	0	14585.17	0	93.63286	261.9673	0	86.81793	55871.82	10.21195	751.1204	898388.9	55.09453	11625.1	630.795	10.17055	0
F925330	5197.25	2.840913	0	91.05932	0	2648.907	0	0	203.3188	0	165.2069	45478.89	0	1864.762	925793.9	0	6901.995	708.9374	7.267973	0
F925331	4980.391	0	0	65.61793	0	4608.564	0	0	98.91059	0	141.9436	51865.96	0	1468.821	912885.5	0	11852.35	969.1363	10.73505	0
F925332	4355.569	3.440485	0	89.52607	0	2289.307	0	75.68164	0	0	137.1913	68756.76	0	658.0606	904921.4	0	9567.413	402.0712	13.07794	0
F925333	4830.863	3.130444	0	108.7137	0	1838.028	0	0	0	0	118.4717	49740.9	0	2091.538	924834	0	4875.929	474.8839	10.36511	0
F925334	3752.193	36.7223	0	67.81345	0	2838.044	0	0	66.5932	0	64.23007	56595.3	0	128.6144	920388.3	0	7208.054	304.9495	7.447938	0
F925335	2261.514	3.053951	0	49.83286	0	426.9872	0	0	0	0	27.24878	45490.82	0	399.3895	939913.8	0	5973.921	279.8047	9.524783	0
F925336	3437.183	5.389864	0	89.74894	0	2199.706	0	0	104.5694	0	61.38552	72728.69	0	689.1868	905481.1	0	6148.877	477.0252	11.88453	0
F925337	3135.415	2.510552	0	54.22982	0	3586.348	0	0	120.9768	0	81.03109	30134.75	0	459.5015	950709.2	0	5581.821	347.1974	9.472322	0
F925338	3791.134	2.595424	0	53.90533	0	3251.348	0	65.46617	61.23696	0	42.82454	40983.56	0	359.7359	933799.9	44.38038	7330.626	498.4873	10.50411	0
F925339	3902.49	2.846871	0	115.9137	0	6436.883	0	0	96.69965	0	37.41371	49197.69	0	431.579	919853.6	0	9104.92	680.0347	5.77593	0
F925340	5449.114	3.66673	0	105.6994	0	2101.852	0	88.15379	0	0	99.62994	63245	0	683.3981	907422.3	56.60514	9352.159	414.6612	5.187225	0
F925341	4496.734	0	0	94.00345	0	764.6689	0	0	0	0	32.46351	49259.38	0	2182.46	917823.3	0	10159.11	2806.129	13.69077	0

SampleID	Nd_ppm	Ni_ppm	P_ppm	Pb_ppm	Pr_ppm	Rb_ppm	S_ppm	Sb_ppm	Se_ppm	Si_ppm	Sn_ppm	Sr_ppm	Th_ppm	Ti_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm	Zr_ppm
F925301	0	10.09938	205.9984	3.985427	0	34.87873	0	0	1.824276	5492.358	0	133.9321	35.15828	1642.082	11.57901	90.58941	0	22.98469	320.9519	96.43972
F925302	0	0	306.5982	3.164228	0	18.97387	0	0	0	7517.281	0	211.8875	20.09447	1613.492	7.482114	71.55951	0	14.8414	317.1657	90.17439
F925303	184.0223	0	268.0448	4.110502	0	10.99297	0	0	2.603746	6685.042	0	169.8838	17.41446	1763.113	6.978564	98.6761	0	13.07086	280.8899	82.78452
F925304	0	0	213.6406	2.727969	0	14.97787	0	0	2.854086	5265.17	0	149.2149	11.59302	1679.509	5.616027	81.06087	0	16.10842	293.7748	86.19401
F925305	147.12	0	224.003	4.035519	0	12.94722	0	0	0	5843.714	0	273.7678	25.92906	1966.632	7.867806	89.12241	0	17.94569	331.6223	104.2317
F925306	120.7347	0	240.3126	7.030337	0	10.6725	0	0	0	5069.618	0	297.1107	34.17296	1769.25	8.506663	59.10197	0	19.5191	311.1723	93.54847
F925307	159.4434	0	292.7986	4.328842	0	7.436819	0	0	1.848321	8728.648	0	191.7266	17.39947	2119.07	6.335657	101.115	0	14.75575	302.5036	96.17922
F925308	0	0	237.3121	3.451084	0	8.663081	0	0	1.665733	5616.178	0	157.553	27.85475	1665.309	9.282417	80.06439	0	12.7067	297.0369	103.8224
F925309	0	6.13	275.5353	3.302015	0	7.204765	0	0	0	6173.377	0	184.8923	16.80532	1743.626	7.105637	76.42009	0	17.04181	266.3684	93.08876
F925310	0	0	267.7226	0	0	9.00676	0	0	1.56242	5060.81	0	241.2901	24.29452	1971.005	9.100787	82.13582	0	12.44782	294.7129	101.5381
F925311	0	0	245.5577	7.365962	0	7.042836	0	0	3.851718	10544.38	0	132.6446	24.01611	1802.154	7.931303	73.37033	0	10.54949	48.77723	68.393
F925312	0	0	172.0459	13.51372	0	16.57868	0	0	14.25681	6605.791	0	69.77877	27.48469	1410.211	9.481708	84.24776	0	3.044104	57.49305	51.48765
F925313	138.09	0	248.2056	7.214952	0	42.41146	0	0	6.642118	13118.58	0	107.1965	30.11416	2334.13	7.692588	107.0037	0	5.431697	84.62994	57.37219
F925314	217.5586	0	186.9566	4.320816	0	42.97927	0	0	2.039754	9126.617	0	118.682	21.44104	2607.428	6.745771	111.6191	0	10.2664	115.3417	73.77265
F925315	0	0	183.6276	5.145549	0	18.29049	0	0	0	9935.527	18.57191	219.4433	21.23731	2759.873	7.409646	124.1495	11.15842	13.72879	86.77628	66.08387
F925316	0	0	269.224	4.711599	0	9.661219	0	0	2.2694	6760.567	0	239.8572	18.39828	2678.2	6.329056	121.9617	0	14.40202	363.9241	60.36505
F925317	0	0	236.6791	3.785555	0	10.53994	0	0	3.60746	5492.654	23.91149	199.6358	13.86983	2526.93	4.450937	125.8931	0	13.56119	380.7992	66.27598
F925318	0	0	280.2178	6.687214	0	37.93515	479.4032	0	1.657263	6429.67	0	119.9505	15.64206	2655.437	5.282582	162.0104	0	6.62984	337.6261	71.93115
F925319	0	9.160655	280.9972	4.843638	0	30.38788	0	0	0	8949.426	0	106.9042	18.95437	2679.401	7.327412	156.3192	0	12.23969	322.3065	61.6043
F925320	0	10.31781	250.7922	5.848785	0	18.46058	0	0	1.562279	7031.161	0	217.5897	13.41869	2759.924	7.819211	116.7179	0	14.48939	323.695	67.73777
F925325	0	0	193.0868	7.610995	0	20.74832	0	0	0	8129.37	0	134.9128	35.10792	3132.199	12.05777	160.0969	0	7.369816	208.569	79.46443
F925326	0	0	210.2383	7.651629	0	17.26037	0	0	0	8677.558	0	177.6225	32.02165	2243.823	9.370476	80.41187	11.65283	9.303596	84.17856	74.45286
F925327	0	0	201.6402	5.302118	0	17.54006	0	0	0	9709.809	0	180.7311	20.8385	2238.2	9.718012	94.39635	10.84703	10.41661	79.83288	72.51142
F925328	262.0815	0	274.8161	5.757886	84.92505	20.01777	0	0	1.297035	7108.239	0	219.7379	18.59998	2516.313	8.487723	100.1611	0	12.30526	330.4132	77.80987
F925329	0	0	336.5938	13.7196	0	0	0	0	0	7972.922	0	1147.574	51.86543	1785.297	10.81234	147.6207	0	21.99453	530.0992	55.50873
F925330	0	10.47672	276.8574	5.221114	0	15.76561	0	0	0	7332.204	0	150.4944	11.93612	2576.114	7.782738	136.2107	0	15.88662	329.4516	67.28464
F925331	126.097	13.52567	317.9283	5.745213	0	13.98222	0	0	0	6840.515	0	261.3461	30.89116	2787.703	10.11525	133.2263	0	16.9184	425.0788	69.01784
F925332	0	0	301.4422	5.287139	0	13.67124	0	0	3.571528	5225.561	0	202.5279	24.37625	2442.913	7.112359	86.76555	0	12.11206	339.0003	66.13526
F925333	153.8943	0	296.39	3.942277	0	21.78548	0	0	2.041894	6743.782	0	291.7204	22.69697	3013.097	7.439579	100.0849	0	14.85438	326.5342	74.91785
F925334	141.3216	0	268.9483	4.252613	0	1.753465	0	0	3.774788	5281.043	0	152.4723	27.87843	2110.337	6.335903	160.0255	0	15.35964	327.2565	40.94842
F925335	170.92	0	132.3205	0	84.63342	4.507339	0	0	2.364805	2704.296	0	19.30139	14.66029	1737.365	0	112.188	0	2.928661	164.777	13.85018
F925336	0	0	216.257	6.252679	0	13.16133	0	0	3.987272	4207.174	0	250.6501	31.40463	3254.226	8.363681	135.0629	0	11.65837	374.5112	52.54763
F925337	0	0	178.563	0	0	5.50711	0	0	2.083923	3637.419	0	136.2843	8.647808	1466.995	4.206961	98.75826	0	6.773844	190.086	42.26769
F925338	0	0	289.1555	5.652889	0	4.737544	0	0	1.256364	6006.952	0	197.3389	25.22975	2607.791	8.040707	126.1126	0	13.63963	312.6312	105.7521
F925339	0	0	272.7483	4.252122	0	7.786127	0	0	0	5582.331	0	356.195	19.93803	3299.892	7.180672	154.2698	0	13.04151	353.0021	63.54242
F925340	0	0	289.8256	3.304884	0	10.52995	0	0	0	6981.812	0	267.3383	19.29941	2823.682	7.552574	161.0813	0	12.75901	330.5612	64.87394
F925341	138.7397	0	390.6406	5.507981	0	27.88887	0	0	0	8090.051	0	113.9967	35.00033	2792.478	9.429493	152.8617	0	13.3378	534.7525	63.38741

APPENDIX D

ASSAY CERTIFICATES



ALS Canada Ltd.
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To: **TRIPOINT GEOLOGICAL SERVICES**
2770 LEIGH RD #148
VICTORIA BC V9B 4G1

Page: 1
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 29-JUL-2023
 This copy reported on
 1-AUG-2023
 Account: TRIPGEO

CERTIFICATE VA23176792

Project: Cowichan
 P.O. No.: COW_004
 This report is for 4 samples of Rock submitted to our lab in Vancouver, BC, Canada on 28-JUN-2023.
 The following have access to data associated with this certificate:

TRIPOINT ASSAYS	DARCY VIS
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
DISP-01	Disposal of all sample fractions

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS

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	VA23176792
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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
F928801		0.86	0.019	1.30	3.74	21.3	1290	0.34	0.02	0.18	7.16	61.3	3.4	18	0.59	35.3
F928803		1.08	0.105	6.85	1.59	40.4	4310	0.22	0.05	0.04	0.92	6.45	0.3	20	0.28	406
F928804		1.26	0.389	0.87	5.58	552	920	0.27	0.08	0.06	0.20	13.25	8.0	14	0.69	142.0
F928766		0.89	0.007	1.05	4.30	19.7	3200	0.39	0.01	0.32	9.30	16.00	6.8	12	0.69	74.9

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	Method Analyte Units LOD	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
Sample Description		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
F928801		0.97	7.92	0.12	0.9	0.030	0.93	30.3	33.6	0.09	75	3.25	0.02	2.8	1.9	760
F928803		2.30	5.20	<0.05	0.3	0.028	0.60	3.5	21.7	0.07	77	2.70	0.02	0.9	1.4	180
F928804		8.47	17.45	0.09	0.8	0.025	1.11	6.9	16.8	1.65	998	1.51	0.98	3.4	4.0	1000
F928766		1.35	8.52	0.06	1.1	0.026	0.90	8.0	35.9	0.13	230	1.40	0.02	3.2	3.4	670

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	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
F928801		219	27.6	<0.002	0.08	55.0	12.2	1	0.4	73.6	0.15	0.10	1.24	0.259	0.17	0.5
F928803		1135	16.0	0.004	0.20	61.8	2.3	3	0.2	130.0	0.05	0.95	0.60	0.051	0.15	0.2
F928804		135.5	42.0	0.004	0.56	6.55	13.6	1	0.5	41.2	0.18	0.60	1.50	0.299	0.52	0.4
F928766		955	28.2	<0.002	0.15	63.0	8.2	1	0.4	72.7	0.18	<0.05	1.44	0.333	0.23	0.5

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CERTIFICATE OF ANALYSIS VA23176792

	Method	Analyte	Units	LOD					
Sample Description					ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	ppm	1	V	W	Y	Zn	Zr
					119	1.9	23.1	452	30.6
					43	0.3	2.1	188	10.7
					160	1.8	3.5	182	26.6
					92	2.2	13.2	218	35.5
F928801									
F928803									
F928804									
F928766									

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CERTIFICATE OF ANALYSIS VA23176792

	CERTIFICATE COMMENTS												
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>REEs may not be totally soluble in this method. ME-MS61</p>												
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA23</td> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">DISP-01</td> <td style="width: 15%;">LOG-21</td> </tr> <tr> <td>ME-MS61</td> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	Au-AA23	CRU-31	DISP-01	LOG-21	ME-MS61	PUL-31	PUL-QC	SPL-21	WEI-21			
Au-AA23	CRU-31	DISP-01	LOG-21										
ME-MS61	PUL-31	PUL-QC	SPL-21										
WEI-21													



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CERTIFICATE VA23176787

Project: Cowichan
 P.O. No.: COW_004
 This report is for 18 samples of Soil submitted to our lab in Vancouver, BC, Canada on 28-JUN-2023.
 The following have access to data associated with this certificate:

TRIPOINT ASSAYS	DARCY VIS
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
DISP-01	Disposal of all sample fractions
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

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

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

Signature: 
 Saa Traxler, Director, North Vancouver Operations



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Sample Description	Method Analyte Units LOD	WEI-21	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
F928651		0.32	0.013	0.09	3.98	7.3	<10	100	0.54	0.09	0.10	0.18	29.7	17.3	14	0.45
F928652		0.30	0.002	0.19	3.28	3.0	<10	60	0.30	0.08	0.08	0.14	6.51	10.1	11	0.47
F928653		0.34	0.007	0.07	4.06	5.2	<10	80	0.54	0.07	0.08	0.09	17.70	16.6	17	0.44
F928654		0.29	0.002	0.17	4.43	3.7	<10	80	0.41	0.08	0.05	0.11	6.51	12.9	15	0.52
F928655		0.21	0.016	0.11	3.77	4.4	<10	120	0.69	0.07	0.12	0.13	27.3	18.1	14	0.33
F928656		0.21	0.002	0.14	4.67	4.4	<10	100	0.45	0.08	0.09	0.10	11.30	15.1	11	0.43
F928657		0.32	0.003	0.13	3.56	4.5	<10	70	0.37	0.10	0.13	0.11	9.27	10.8	11	0.41
F928658		0.26	0.004	0.13	3.77	4.9	<10	130	0.53	0.08	0.14	0.11	10.10	14.5	10	0.43
F928659		0.21	0.001	0.13	3.62	4.8	<10	120	0.51	0.08	0.14	0.12	10.00	14.4	9	0.41
F928660		0.26	0.004	0.12	2.62	3.5	<10	180	0.33	0.07	0.23	0.37	8.53	12.1	9	0.45
F928751		0.38	0.002	0.14	4.53	4.1	<10	210	0.76	0.09	0.25	0.21	20.9	21.1	15	0.59
F928752		0.33	0.003	0.04	3.51	5.0	<10	190	0.55	0.08	0.27	0.13	16.80	17.3	18	0.49
F928753		0.26	0.002	0.06	2.69	2.3	<10	120	0.31	0.09	0.19	0.14	7.63	9.8	10	0.38
F928754		0.34	0.005	0.08	3.08	2.6	<10	270	0.89	0.07	0.26	0.34	31.5	31.1	11	0.38
F928755		0.42	0.003	0.11	3.30	2.7	<10	460	1.00	0.07	0.43	0.91	43.2	19.0	11	0.45
F928756		0.28	0.003	0.07	2.36	3.1	<10	100	0.23	0.10	0.15	0.23	7.02	9.8	8	0.31
F928757		0.32	0.002	0.10	2.62	3.2	<10	100	0.26	0.10	0.15	0.25	7.08	9.7	9	0.33
F928758		0.31	0.006	0.18	2.84	2.7	<10	80	0.31	0.10	0.11	0.20	7.81	9.8	8	0.37

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CERTIFICATE OF ANALYSIS VA23176787

Sample Description	Method Analyte Units LOD	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
F928651		51.6	5.76	9.19	<0.05	0.13	0.17	0.038	0.04	6.4	12.0	0.89	459	0.71	0.01	0.83
F928652		30.7	5.17	10.05	<0.05	0.04	0.11	0.033	0.03	3.6	14.7	0.45	342	0.48	0.01	0.40
F928653		49.0	5.86	8.83	<0.05	0.09	0.13	0.042	0.04	5.6	14.6	0.82	457	0.50	0.01	0.39
F928654		31.8	5.81	10.60	<0.05	0.05	0.18	0.046	0.04	3.5	20.6	0.58	333	0.52	0.01	0.37
F928655		41.2	5.26	8.84	0.05	0.08	0.14	0.038	0.06	11.1	11.9	0.71	709	0.56	0.01	0.53
F928656		35.9	6.00	11.50	<0.05	0.05	0.15	0.046	0.06	5.3	16.1	0.74	480	0.64	0.01	0.43
F928657		22.8	6.27	11.95	<0.05	0.06	0.09	0.043	0.05	4.7	16.6	0.61	413	0.68	0.01	0.54
F928658		27.0	5.18	10.25	<0.05	0.06	0.11	0.034	0.06	5.3	15.8	0.62	782	0.52	0.01	0.47
F928659		26.0	5.11	9.81	<0.05	0.06	0.11	0.036	0.06	5.1	15.2	0.60	792	0.54	0.01	0.50
F928660		24.1	5.45	8.54	<0.05	0.03	0.03	0.029	0.03	5.2	13.9	0.68	364	0.50	0.01	0.23
F928751		37.2	5.19	11.05	<0.05	0.08	0.10	0.042	0.06	8.1	15.3	0.76	1815	0.85	0.01	0.41
F928752		34.9	5.69	10.50	<0.05	0.08	0.09	0.040	0.06	6.3	14.8	1.09	864	0.51	0.01	0.42
F928753		17.2	5.37	9.05	<0.05	0.06	0.07	0.032	0.04	4.2	10.4	0.46	594	0.68	0.03	0.48
F928754		23.1	4.50	7.22	0.06	0.09	0.09	0.034	0.05	12.6	10.3	0.60	2320	0.80	0.03	0.55
F928755		24.6	4.68	7.37	0.05	0.07	0.08	0.033	0.04	10.0	14.4	0.76	2390	0.50	0.03	0.33
F928756		17.0	5.13	9.77	<0.05	0.05	0.05	0.026	0.05	3.7	10.7	0.45	423	0.44	0.03	0.50
F928757		17.6	5.05	9.41	<0.05	0.06	0.07	0.027	0.04	3.7	12.6	0.46	400	0.45	0.03	0.68
F928758		17.0	5.43	8.93	<0.05	0.03	0.05	0.029	0.04	4.1	10.0	0.50	412	0.53	0.03	0.18

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CERTIFICATE OF ANALYSIS VA23176787

Sample Description	Method Analyte Units LOD	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
F928651		9.4	710	18.9	8.0	<0.001	0.02	0.43	9.1	0.8	0.5	7.9	<0.01	0.22	1.1	0.011
F928652		5.8	740	7.7	7.7	<0.001	0.02	0.28	4.7	0.3	0.6	6.9	<0.01	0.08	0.6	<0.005
F928653		10.6	1400	6.8	8.5	<0.001	0.01	0.29	9.0	0.5	0.5	6.2	<0.01	0.16	1.3	0.008
F928654		8.3	820	7.1	9.2	<0.001	0.02	0.22	5.0	0.5	0.5	4.8	<0.01	0.09	0.8	<0.005
F928655		8.7	970	8.8	7.6	<0.001	0.02	0.26	8.4	0.7	0.5	8.4	<0.01	0.10	1.0	0.005
F928656		7.7	940	6.9	10.2	<0.001	0.02	0.13	7.1	0.6	0.6	7.1	<0.01	0.09	0.9	<0.005
F928657		5.5	930	8.1	6.5	<0.001	0.02	0.20	5.6	0.5	0.6	8.3	<0.01	0.09	0.7	0.006
F928658		6.6	1300	10.1	9.8	<0.001	0.02	0.16	5.8	0.4	0.5	9.9	<0.01	0.11	0.6	0.005
F928659		6.4	1280	10.2	9.3	<0.001	0.02	0.19	5.4	0.5	0.5	9.8	<0.01	0.11	0.6	<0.005
F928660		5.4	480	9.9	9.3	<0.001	0.01	0.26	4.9	0.3	0.5	12.7	<0.01	0.08	0.5	0.006
F928751		11.1	990	17.9	12.6	<0.001	0.03	0.18	7.3	0.7	0.5	13.8	<0.01	0.11	0.8	0.005
F928752		14.0	970	9.9	8.9	0.001	0.02	0.34	7.4	0.5	0.5	15.3	<0.01	0.12	0.9	0.017
F928753		5.3	680	7.1	6.6	<0.001	0.03	0.27	4.1	0.3	0.6	9.9	<0.01	0.07	0.6	0.006
F928754		8.1	880	7.7	8.1	<0.001	0.05	0.24	6.4	0.5	0.4	14.6	<0.01	0.06	0.5	0.008
F928755		11.6	820	7.8	10.1	0.002	0.04	0.27	5.6	0.8	0.4	20.9	<0.01	0.09	0.5	0.007
F928756		5.0	840	8.2	5.3	<0.001	0.02	0.25	4.4	0.3	0.6	7.8	<0.01	0.07	0.6	0.007
F928757		5.1	840	7.8	5.7	<0.001	0.03	0.22	4.6	0.3	0.5	8.2	<0.01	0.06	0.5	0.006
F928758		4.7	630	7.4	7.0	<0.001	0.02	0.27	4.7	0.3	0.5	7.5	<0.01	0.06	0.7	0.005

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Sample Description	Method Analyte Units LOD	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5
F928651		0.06	0.44	141	<0.05	5.74	106	4.6
F928652		0.06	0.23	141	<0.05	1.65	82	1.5
F928653		0.05	0.38	136	<0.05	5.28	87	3.2
F928654		0.06	0.25	133	<0.05	1.80	100	1.7
F928655		0.06	0.36	130	<0.05	8.51	72	2.7
F928656		0.06	0.29	146	<0.05	3.46	83	1.9
F928657		0.05	0.27	159	<0.05	2.91	67	2.1
F928658		0.06	0.28	129	<0.05	3.38	93	1.9
F928659		0.06	0.28	126	<0.05	3.27	90	1.9
F928660		0.04	0.20	141	<0.05	3.22	99	1.3
F928751		0.09	0.45	130	<0.05	7.62	136	1.9
F928752		0.04	0.42	130	<0.05	5.91	133	2.1
F928753		0.05	0.25	142	<0.05	2.24	68	1.5
F928754		0.07	0.40	110	<0.05	11.85	74	2.1
F928755		0.08	0.37	104	<0.05	11.10	132	1.6
F928756		0.04	0.22	144	<0.05	2.14	63	1.5
F928757		0.05	0.22	136	<0.05	2.13	67	1.9
F928758		0.05	0.20	141	<0.05	2.02	59	1.1



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Account: TRIPGEO

Project: Cowichan

CERTIFICATE OF ANALYSIS VA23176787

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
AuME-TL43
WEI-21

DISP-01

LOG-22

SCR-41



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 28-JUL-2023
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CERTIFICATE VA23176774

Project: Cowichan
 P.O. No.: COW_004
 This report is for 7 samples of Vegetation submitted to our lab in Vancouver, BC, Canada on 28-JUN-2023.
 The following have access to data associated with this certificate:

TRIPOINT ASSAYS	DARCY VIS
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
DISP-01	Disposal of all sample fractions
VEG-ASH01	Controlled Ignition - Veg Samp. @ 475C

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-VEG41a	Super Trace - Ashed Vegetation Samples	

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

Signature: 
 Saa Traxler, Director, North Vancouver Operations



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CERTIFICATE OF ANALYSIS VA23176774

Sample Description	Method Analyte Units LOD	WEI-21	VEG-ASH01	VEG-ASH01	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	
		Recvd Wt. kg	WT. SAMP g	WT. ASH g	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.01	0.01	0.0002	0.001	0.01	0.01	1	0.1	0.01	0.001	0.01	0.001	0.003	0.002
F928759		0.08	39.8	1.94	0.0027	0.111	1.24	4.20	220	959	0.03	0.020	7.41	0.888	254	1.175
F928760		0.10	39.2	1.94	0.0037	0.223	1.45	4.85	288	819	0.04	0.041	7.64	1.805	339	0.928
F928761		0.10	40.7	2.03	0.0029	0.182	1.07	4.48	290	780	0.04	0.026	7.59	1.330	219	1.275
F928762		0.10	40.2	1.95	0.0016	0.132	1.04	3.33	295	942	0.07	0.020	7.22	0.280	387	1.015
F928763		0.08	39.7	1.90	0.0018	0.872	0.74	4.16	205	802	0.02	0.025	7.70	2.24	113.0	0.762
F928764		0.11	40.3	1.92	0.0021	0.178	1.09	3.62	222	782	0.05	0.022	7.25	2.38	244	2.00
F928765		0.11	40.1	1.91	0.0018	0.580	0.76	3.20	262	933	0.06	0.029	6.75	0.803	301	1.585

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CERTIFICATE OF ANALYSIS VA23176774

Sample Description	Method Analyte Units LOD	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	
		Cr ppm	Cs ppm	Cu ppm	Fe ppm	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
		0.01	0.005	0.01	1	0.004	0.005	0.002	0.001	0.005	0.01	0.002	0.1	0.001	0.1	0.01
F928759		4.38	0.479	123.0	1800	0.329	0.145	0.044	0.004	0.017	>10.0	250	0.8	4.01	1520	0.43
F928760		13.60	0.389	150.0	1700	0.150	0.217	0.035	0.005	0.006	>10.0	320	0.7	3.69	1740	0.80
F928761		10.75	0.298	138.0	1300	0.174	0.115	0.023	0.003	0.010	>10.0	166.0	0.6	3.20	2900	1.13
F928762		6.29	0.587	95.1	1200	0.039	0.240	0.027	0.004	0.009	>10.0	340	0.7	4.15	1560	0.61
F928763		7.21	0.287	134.0	1200	0.122	0.163	0.030	0.001	0.007	>10.0	280	0.7	4.82	1950	0.62
F928764		6.01	0.455	122.0	1200	0.153	0.106	0.060	0.002	0.007	>10.0	178.5	0.7	3.88	2130	0.52
F928765		6.15	0.361	106.5	1200	0.072	0.123	0.039	0.002	0.014	>10.0	240	0.7	4.50	1840	0.44

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CERTIFICATE OF ANALYSIS	VA23176774
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Sample Description	Method	ME-VEG41a														
	Analyte Units LOD	Na	Nb	Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr
		%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.001	0.002	0.04	0.001	0.01	0.001	0.002	0.01	0.001	0.01	0.01	0.01	0.005	0.01	0.02
F928759		0.180	0.073	6.25	3.65	5.45	<0.001	<0.002	440	<0.001	2.72	6.35	0.73	0.282	0.25	279
F928760		0.173	0.067	11.80	3.59	7.14	<0.001	<0.002	403	0.001	2.57	70.3	0.56	0.210	1.23	359
F928761		0.112	0.046	15.45	3.60	8.98	<0.001	<0.002	287	0.001	2.28	4.87	0.42	0.198	3.34	243
F928762		0.132	0.059	9.08	3.53	4.40	<0.001	<0.002	470	0.001	2.35	4.35	0.50	0.307	0.78	301
F928763		0.189	0.046	8.54	3.43	4.37	<0.001	<0.002	530	0.001	3.31	4.58	0.42	0.362	0.77	266
F928764		0.200	0.040	7.94	3.51	3.50	<0.001	<0.002	460	<0.001	2.11	4.29	0.39	0.291	0.68	278
F928765		0.161	0.048	7.79	3.58	3.70	<0.001	<0.002	530	<0.001	2.40	3.60	0.35	0.284	0.47	260

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CERTIFICATE OF ANALYSIS VA23176774

Sample Description	Method	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	ME-VEG41a	
	Analyte	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
LOD	0.001	0.005	0.002	0.001	0.002	0.005	0.05	0.01	0.003	0.1	0.02	
F928759		<0.001	0.006	0.081	0.005	0.009	0.032	5.12	0.10	73.7	504	1.85
F928760		<0.001	0.006	0.094	0.004	0.011	0.036	3.57	0.19	86.1	614	1.84
F928761		<0.001	<0.005	0.065	0.003	0.009	0.034	2.48	0.10	52.5	668	1.25
F928762		<0.001	0.005	0.060	0.003	0.006	0.029	2.43	0.09	101.5	462	1.36
F928763		<0.001	<0.005	0.055	0.002	0.004	0.023	2.06	0.10	73.9	564	1.61
F928764		<0.001	<0.005	0.059	0.003	0.005	0.026	2.21	0.11	39.0	533	2.54
F928765		<0.001	<0.005	0.059	0.002	0.003	0.025	2.14	0.06	48.8	412	1.72

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CERTIFICATE OF ANALYSIS VA23176774

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Reported concentration is in the ashed product, not in the dried and separated (if applicable) sample.
ME-VEG41a

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
DISP-01 LOG-21 ME-VEG41a VEG-ASH01
WEI-21

APPENDIX E

ANALYTICAL PROCEDURE AND METHOD DESCRIPTIONS



Sample Preparation Package

PREP-31

Standard Sample Preparation: Dry, Crush, Split and Pulverize

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

The sample is logged in the tracking system, weighed, dried and finely crushed to better than 70 % passing a 2 mm (Tyler 9 mesh, US Std. No.10) screen. A split of up to 250 g is taken and pulverized to better than 85 % passing a 75 micron (Tyler 200 mesh, US Std. No. 200) screen. This method is appropriate for rock chip or drill samples.

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
CRU-31	Fine crushing of rock chip and drill samples to better than 70 % of the sample passing 2 mm.
SPL-21	Split sample using riffle splitter.
PUL-31	A sample split of up to 250 g is pulverized to better than 85 % of the sample passing 75 microns.

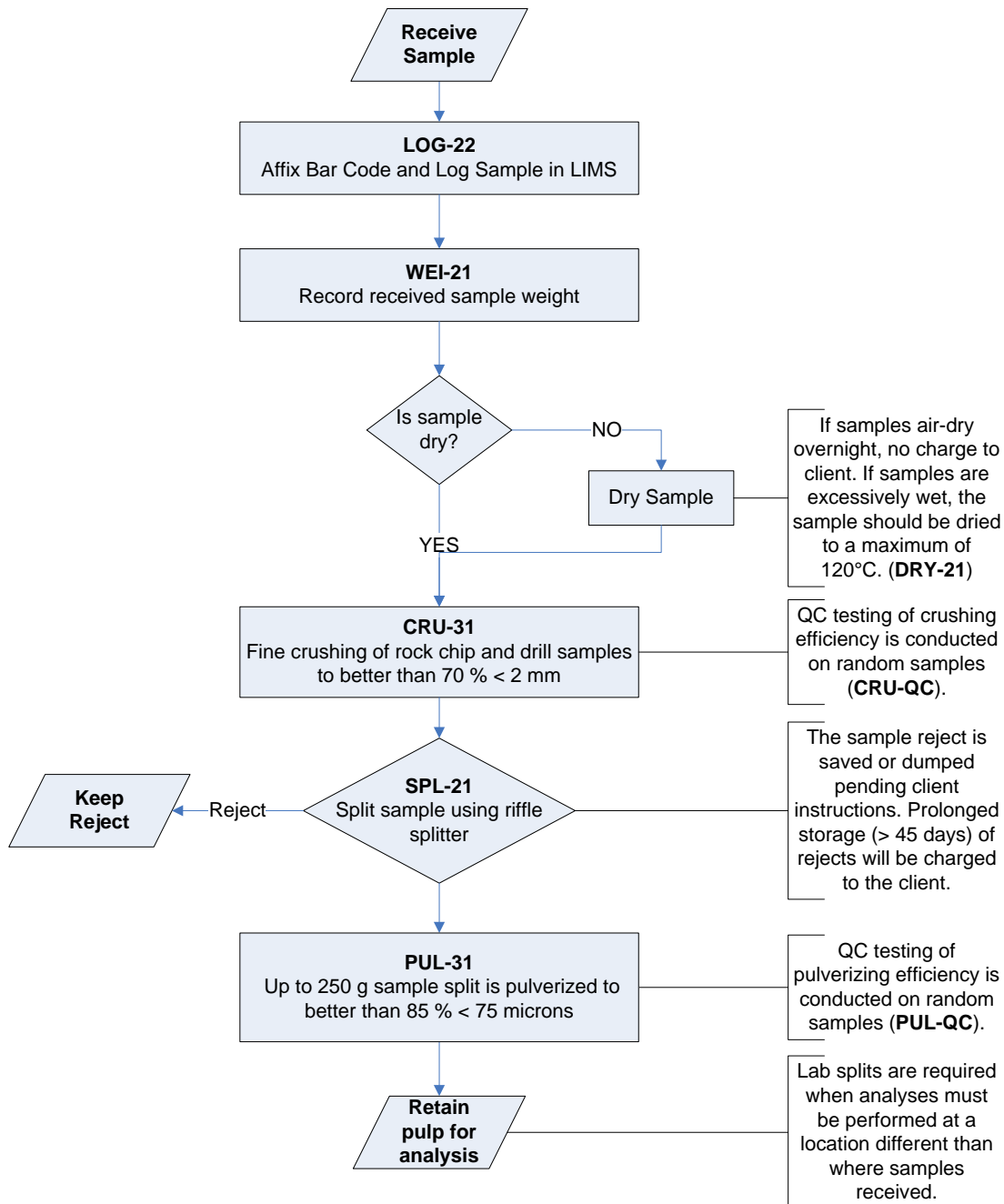
Revision 03.03
March 29, 2012



Sample Preparation Package

Flow Chart -

Sample Preparation Package – PREP-31 Standard Sample Preparation: Dry, Crush, Split and Pulverize



Revision 03.03
March 29, 2012

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Au-AA23 & Au-AA24 – Fire Assay Fusion, AAS Finish

Sample Decomposition:

Fire Assay Fusion (FA-FUS01 & FA-FUS02)

Analytical Method:

Atomic Absorption Spectroscopy (AAS)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven, 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by atomic absorption spectroscopy against matrix-matched standards.

List of Reportable Analytes:

Method Code	Element	Symbol	Units	Sample Weight (g)	Lower Limit	Upper Limit	Default Overlimit Method
Au-AA23	Gold	Au	ppm	30	0.005	10.0	Au-GRA21
Au-AA24	Gold	Au	ppm	50	0.005	10.0	Au-GRA22

ME-MS61: Ultra-Trace Level Method Using ICP MS and ICP-AES

Sample Decomposition:

HF-HNO₃-HClO₄ acid digestion, HCl leach (GEO-4A01)

Analytical Method:

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP-AES)

Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

The ME-MS61 Ultra Trace method combines a four-acid digestion with ICP-MS instrumentation. A four acid digestion quantitatively dissolves nearly all minerals in the majority of geological materials.

A prepared sample (0.25 g) is digested with perchloric, nitric and hydrofluoric acids. The residue is leached with dilute hydrochloric acid and diluted to volume.

The final solution is then analyzed by inductively coupled plasma-atomic emission spectrometry and inductively coupled plasma-mass spectrometry. Results are corrected for spectral inter-element interferences.

List of Reportable Analytes:

Analyte	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.01	100
Aluminum	Al	%	0.01	50
Arsenic	As	ppm	0.2	10000
Barium	Ba	ppm	10	10000
Beryllium	Be	ppm	0.05	1000
Bismuth	Bi	ppm	0.01	10000
Calcium	Ca	%	0.01	50
Cadmium	Cd	ppm	0.02	1000
Cerium	Ce	ppm	0.01	500
Cobalt	Co	ppm	0.1	10000
Chromium	Cr	ppm	1	10000
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.1	500
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.5	10000
Lithium	Li	ppm	0.2	10000
Magnesium	Mg	%	0.01	50
Manganese	Mn	ppm	5	100000
Molybdenum	Mo	ppm	0.05	10000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.1	500
Nickel	Ni	ppm	0.2	10000

Analyte	Symbol	Units	Lower Limit	Upper Limit
Phosphorous	P	ppm	10	10000
Lead	Pb	ppm	0.5	10000
Rubidium	Rb	ppm	0.1	10000
Rhenium	Re	ppm	0.002	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10000
Scandium	Sc	ppm	0.1	10000
Selenium	Se	ppm	1	1000
Tin	Sn	ppm	0.2	500
Strontium	Sr	ppm	0.2	10000
Tantalum	Ta	ppm	0.05	100
Tellurium	Te	ppm	0.05	500
Thorium	Th	ppm	0.01	10000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10000
Uranium	U	ppm	0.1	10000
Vanadium	V	ppm	1	10000
Tungsten	W	ppm	0.1	10000
Yttrium	Y	ppm	0.1	500
Zinc	Zn	ppm	2	10000
Zirconium	Zr	ppm	0.5	500

NOTE: Four acid digestions are able to dissolve most minerals. However, depending on the sample matrix, not all elements are quantitatively extracted. For example:

- This digestion may not be complete for minerals such as corundum (Al₂O₃), kyanite (Al₂SiO₅) and more complex silicates such as garnet, staurolite, topaz and tourmaline.*
- Potassium may bias low due to the formation of the insoluble perchlorate, which may not be completely decomposed during the leaching process.*
- Low recoveries of Al and Ca may occur if their insoluble fluorides are not completely decomposed during the leaching process.*
- Scandium may not be fully solubilized and may show lower recovery by this digestion. Sc-ICP06 (Lithium Metaborate Fusion, ICP-AES Finish), a method developed for Scandium, can be used as an alternative for this analyte.*
- Four acid digestions can also volatilize certain exploration pathfinder elements, in particular mercury. Mercury is better analyzed by an aqua regia digestion and can be added as a package to this analysis (Package: ME-MS61m).*



Sample Preparation Package

PREP-41

Standard Preparation: Dry sample and dry-sieve to -180 micron

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

An entire sample is dried and then dry-sieved using a 180 micron (Tyler 80 mesh) screen. The plus fraction is retained unless disposal is requested. This method is appropriate for soil or sediment samples up to 1 kg in weight.

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
SCR-41	Sample is dry-sieved to - 180 micron and both the plus and minus fractions are retained.

Revision 03.01
March 29, 2012

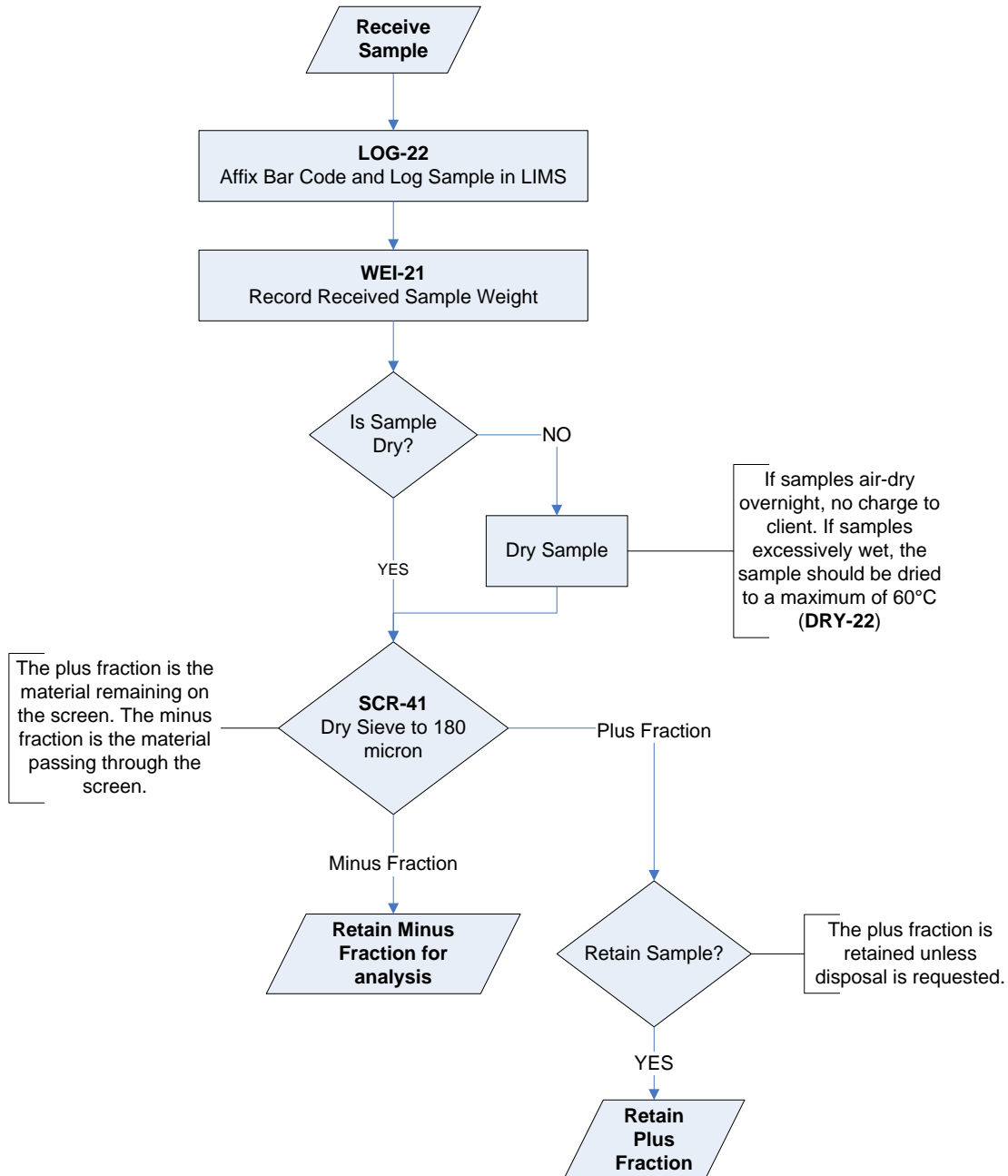
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Sample Preparation Package

Sample Preparation Flowchart Package -PREP-41



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March 29, 2012

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AuME-ST43, AuME-ST44, AuME-TL43 and AuME-TL44: Gold and Multi-Element from an Aqua Regia Digestion

Sample Decomposition:

GEO-AuAR01: 25g Aqua Regia Digestion

Or

GEO-AuAR02: 50g Aqua Regia Digestion

Analytical Method:

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP-AES)

Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

The determination of gold and multi-element in soils and stream sediments by aqua regia digestion offers very low detection limits, making it an attractive option for geochemical orientation surveys. Aqua regia effectively brings the portion of gold occurring natively and bound in sulphide ore minerals into solution.

Methods are available with a choice of a 25g or 50g sample aliquot; and Super Trace or Trace level detection limits. The advantage of analyzing for gold and multi-element simultaneously from the same representatively sized sample aliquot is best correlation between trace element geochemistry and Au.

- AuME-ST43: 25g Super Trace Level
- AuME-ST44: 50g Super Trace Level
- AuME-TL43: 25g Trace Level
- AuME-TL44: 50g Trace Level

A finely pulverized sample (25g or 50g) is cold digested with HNO₃, then HCl is added and the sample is heated at 130 °C for 40 minutes. Digestion is carried out in disposable plastic bottles to eliminate cross-contamination from digestion vessels and heated via graphite block for even heating.

Note: Roasting prior to dissolution is recommended for samples containing carbon or high concentrations of sulphides; otherwise low gold recoveries will result. Carbon, if present, will remove AuCl₃ ions from solution, leading to low recoveries being obtained.

AuME-ST43 and AuME-ST44 Super Trace Methods

The AuME-ST43 and AuME-ST44 super trace methods offer the lowest detection limits for gold and multi-element available. Analysis via ICP-MS instrumentation utilizing collision/reaction cell technologies provide these super trace detection limits.

AuME-TL43 and AuME-TL44 Trace Level Methods

The AuME-TL43 and AuME-TL44 methods are analyzed via ICP-MS and ICP-AES corrected for inter element spectral interferences

List of Reportable Analytes for AuME-ST43 and AuME-ST44 (Super Trace - Lowest Detection Limits)

Analyte	Symbol	Units	Lower Limit	Upper Limit
Gold	Au	ppm	0.0001	1
Silver	Ag	ppm	0.001	100
Aluminum	Al	%	0.01	25
Arsenic	As	ppm	0.01	10000
Boron	B	ppm	2	10000
Barium	Ba	ppm	0.05	10000
Beryllium	Be	ppm	0.005	1000
Bismuth	Bi	ppm	0.0005	10000
Calcium	Ca	%	0.01	25
Cadmium	Cd	ppm	0.001	1000
Cerium	Ce	ppm	0.001	10000
Cobalt	Co	ppm	0.001	10000
Chromium	Cr	ppm	0.01	10000
Cesium	Cs	ppm	0.001	500
Copper	Cu	ppm	0.01	10000
Iron	Fe	%	0.001	50
Gallium	Ga	ppm	0.004	10000
Germanium	Ge	ppm	0.005	500
Hafnium	Hf	ppm	0.002	500
Mercury	Hg	ppm	0.002	10000
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.002	10000
Lithium	Li	ppm	0.1	10000
Magnesium	Mg	%	0.01	25
Manganese	Mn	ppm	0.1	50000
Molybdenum	Mo	ppm	0.002	10000
Sodium	Na	%	0.001	10
Niobium	Nb	ppm	0.002	500
Nickel	Ni	ppm	0.02	10000
Phosphorus	P	%	0.0005	1
Lead	Pb	ppm	0.005	10000
Palladium	Pd	ppm	0.001	100
Platinum	Pt	ppm	0.001	100
Rubidium	Rb	ppm	0.005	10000
Rhenium	Re	ppm	0.0002	50
Sulphur	S	%	0.002	10
Antimony	Sb	ppm	0.002	10000
Scandium	Sc	ppm	0.005	10000
Selenium	Se	ppm	0.002	1000
Tin	Sn	ppm	0.01	500
Strontium	Sr	ppm	0.01	10000
Tantalum	Ta	ppm	0.005	500
Tellurium	Te	ppm	0.001	500
Thorium	Th	ppm	0.0005	10000
Titanium	Ti	%	0.0001	10
Thallium	Tl	ppm	0.0005	10000
Uranium	U	ppm	0.0005	2500
Vanadium	V	ppm	0.05	10000
Tungsten	W	ppm	0.001	10000
Yttrium	Y	ppm	0.001	500
Zinc	Zn	ppm	0.1	10000
Zirconium	Zr	ppm	0.01	500

List of Reportable Analytes for AuME-TL43 and AuME-TL44 (Trace Level Detection Limits)

Analyte	Symbol	Units	Lower Limit	Upper Limit
Gold	Au	ppm	0.001	1
Silver	Ag	ppm	0.01	100
Aluminum	Al	%	0.01	25
Arsenic	As	ppm	0.1	10000
Boron	B	ppm	10	10000
Barium	Ba	ppm	10	10000
Beryllium	Be	ppm	0.05	1000
Bismuth	Bi	ppm	0.01	10000
Calcium	Ca	%	0.01	25
Cadmium	Cd	ppm	0.01	1000
Cerium	Ce	ppm	0.02	10000
Cobalt	Co	ppm	0.1	10000
Chromium	Cr	ppm	1	10000
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.02	500
Mercury	Hg	ppm	0.01	10000
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.2	10000
Lithium	Li	ppm	0.1	10000
Magnesium	Mg	%	0.01	25
Manganese	Mn	ppm	5	50000
Molybdenum	Mo	ppm	0.05	10000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.05	500
Nickel	Ni	ppm	0.2	10000
Phosphorus	P	ppm	10	10000
Lead	Pb	ppm	0.2	10000
Rubidium	Rb	ppm	0.1	10000
Rhenium	Re	ppm	0.001	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10000
Scandium	Sc	ppm	0.1	10000
Selenium	Se	ppm	0.2	1000
Tin	Sn	ppm	0.2	500
Strontium	Sr	ppm	0.2	10000
Tantalum	Ta	ppm	0.01	500
Tellurium	Te	ppm	0.01	500
Thorium	Th	ppm	0.2	10000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10000
Uranium	U	ppm	0.05	10000
Vanadium	V	ppm	1	10000
Tungsten	W	ppm	0.05	10000
Yttrium	Y	ppm	0.05	500
Zinc	Zn	ppm	2	10000
Zirconium	Zr	ppm	0.5	500