	PC Coological Survey
	BC Geological Survey
BRITISH	Assessment Report
The Best Place on Earth	39854
Ministry of Energy, Mines & Petroleum Resources	ROGEN SHALL
Mining & Minerals Division BC Geological Survey	Assessment Report Title Page and Summary
TYPE OF REPORT [type of survey(s)]: Geochemical	TOTAL 60ST: \$ 6,300.00
AUTHOR(S): J. T. Shearer, M.Sc., P.Geo.	SIGNATURE(S):
NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):	YEAR OF WORK: 2021
STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):	5857103
PROPERTY NAME: Rover Lake	
COMMODITIES SOUGHT: Ni	
MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:	
MINING DIVISION: Caribou	NTS/BCGS: 930/3E. 93.J/14E
LATITUDE: 55 ° 02 '11.63 " LONGITUDE: 123	^o 09 '34.61 " (at centre of work)
OWNER(S): 1) J. T. Shearer	2)
MAILING ADDRESS: Unit 5 - 2330 Tyner Street	
Port Coquitlam, BC V3B 2Z7	
OPERATOR(S) [who paid for the work]: 1) Same	2)
MAILING ADDRESS: Same	
PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, strycture,	alteration, mineralization, size and attitude):
Shale associated with writes me I've	Hogmaliz marks , Azeria une
anomalous for Ni and Cr.	contraction to the station of the st

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

26461; 26462; 18157; 21753; 19329; 8775; 9921; 9764; 15879; 13215; 16880; 4706; 10231; 12164; 13750

			APPORTIONED (incl. support)
GEOLOGICAL (scale, area)	2		
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for)			
Soil 13 Soil		1082409 & 1082410	\$3200
Silt			
Rock 14 Rock		1082409 & 1082410	\$3000
Other			
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)/t	rail		
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	\$ 6,200.00

GEOCHEMICAL ASSESSMENT REPORT on the ROYER LAKE PROJECT CLAIMS 1082409 and 1082410 CARP LAKE – McLEOD LAKE AREA, MacKENZIE AREA CARIBOU MINING DISTRICT and OMINECA MINING DISTRICT 6098872N x 489799E 930/3E 93J/14E EVENT# 5857103

for HOMEGOLD RESOURCES LTD. Unit 5 – 2330 Tyner Street Port Coquitlam, BC V3C 2Z 1 Website: <u>www.HomegoldResourcesLtd.com</u>

by J. T. Shearer, M.Sc., P.Geo. (BC & Ontario) FSEG Phone: 604-970-6402

December 20, 2021

Fieldwork completed between May 15, 2021 and December 20, 2021

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SUMMARY

The Royer Lake property is located about 48 kilometres southwest of Mackenzie in northcentral British Columbia in Cariboo and Omineca mining divisions on NTS maps 930/3E & 3W, and 93J/14E & 14W.

Driving directions to Royer Lake property:

- 1. From Highway 97 Turn west onto Finlay Forest Service Road (FSR) North at (10U 500436E 6106374N).
- 2. At km 10.2 of Finlay FSR (10U 492499E 6108077N) turn southeast onto Sabei FSR.
- 3. At km 5.5 of Sabei FSR (10U 492384E 6103316N) turn east onto Holder FSR. Do not continue beyond km 5.5 along Sabei FSR as the road is unmaintained, narrows and ends in unpassable swamp.
- 4. At km 14.1 of Holder FSR (10U 491979E 6096295N) turn southwest onto Dickmur Road.
- 5. At km 5.9 of Dickmur Road (10U 489692E 6099187N) turn east onto the unnamed road and park your vehicle. The unnamed road is grown-in with alder and must be cleared before vehicles can reach a turn-around area.
- 6. Walk 370m east along the unnamed road to reach the Royer Lake Nickel property.

An exposed gossanous outcrop was sampled (RL21001 – RL21023). The rock appears to be limestone with areas of calcite veining.

The trench from ATW Ventures Assessment Report Fig 7 is immediately beside a beaver pond/swamp. At the beaver dam there is a large rounded boulder (0.5m diameter) with some red/brown coloration. At the south end of the swamp is a road cut that I sampled along (RL21024 – RL21027). I also sampled on a knoll immediately south of the road cut (RL21028 – RL21031). There is evidence of small hand-dug trenches (0.5m wide X 3m long) on the east end of the knoll.

In May 2006, Mountain Boy Minerals completed a short drilling program on the Nickel-1 mineral claim and Boot 17 placer claim. **A** total of 254.8 meters of BTW size drilling was completed in 4 holes; 3 on the Nickel 1 claim and 1 on the Boot 18 claim. Two holes on the Nickel 1 claim just north of DDH-2006-NI-2 were abandoned at 20-30 meters each due to the presence of sand along a major structure.

The 2006 program was designed to test very strongly altered ultramafic rocks with strong "nickel bloom "stain on the Nickel 1 claim. Several outcrops of these rocks were located in this area during 2004 prospecting by Mountain Boy Minerals. Values up to 2000 ppm were obtained from these nickel bearing rocks Drilling intersected highly sheared

serpentinized pyroxenite with local concentrations of coarse pyrite both as disseminated grains and late fracture fillings in areas of highly sheared, graphitic shale, coal and limestone.

Assay results from the strongly altered ultramafic rocks obtained during 2006 drilling on Nickel-1 claim returned nickel, chromium, cobalt and copper values anomalous. Most nickel values were between 1000 and 2000 ppm with a high of 2158 ppm. Chromium assays were between 762 and 1495 ppm. Cobalt assays ranged from 24 to 161 ppm. The highest value for copper was 28 ppm.

In 2021 highly anomalous nickel and chromium values were returned for soil samples #25 and 26 associated with a sloughed trench near the southern limit of sampling. Higher Ni results are apparent to the south of sample #28. High nickel and chromium in soils was also noted in soil sample #11 with 539ppm Ni, in the central part of the access road. This area is underlain by pyritic green calcareous sandstone and shale.

Respectfully submitted,

J.T. Shearer, M.Sc., P. Geo. (BC & Ontario) FSEG

Geochemical Assessment Report on the Royer Lake Project December 20, 2021



INTRODUCTION

The property is located 48 kilometres southwest of Mackenzie in north-central British Columbia in Cariboo and Omineca mining divisions on NTS maps 930/3E & 3W, and 903J/14E&14W.

Mackenzie (population 5,000) is the local commercial center situated 48 km northeast from the property, at the end of Highway 39. Mackenzie can provide accommodation and food for the exploration crew as well as all rudimentary equipment and supplies required for exploration.

Access to the area is by Highway 97 which passes close to McLeod Lake. From there, a dense network of active and decommissioned forestry roads provide an easy access to the property using 4-wheel drive vehicles or ATV machines.



Figure 2 Access Map

Geochemical Assessment Report on the Royer Lake Project December 20, 2021

LOCATION and ACCESS

The property is located on the Nechako Plateau in north-central British Columbia. A blanket of glacially deposited material covers much of the property. It ranges in thickness from less than 1 metre to 25-30 metres. Outcrops comprise no more than a few percent of the total property area. The bulk of exposed rocks occurs on ridge tops and along river and creek bottoms. Drumlins and eskers striking northeast are abundant.

Climate of the area is defined by typical warm continental summers, up to 30° C, contrasting with cold, up to 30° below-zero temperatures in winters. Precipitation is moderate, ranging from 200 to 500 mm annually with half of it as snow. The area is covered by forest which includes fir, spruce, balsam and pine. Often (especially along numerous creeks) there is thick underbrush composed of alder, devil's club and wild rose. The field season starts usually in early May and ends in late October or early November. The climate offers no insurmountable impediment to year-round operations (e.g. drilling) on the property.

The Carp property is located about 48 kilometres southwest of Mackenzie in north-central British Columbia in Cariboo and Omineca mining divisions on NTS maps 930/3E & 3W, and 93J/14E & 14W.

Driving directions to Royer Lake property:

- 7. From Highway 97 Turn west onto Finlay Forest Service Road (FSR) North at (10U 500436E 6106374N).
- 8. At km 10.2 of Finlay FSR (10U 492499E 6108077N) turn southeast onto Sabei FSR.
- 9. At km 5.5 of Sabei FSR (10U 492384E 6103316N) turn east onto Holder FSR. Do not continue beyond km 5.5 along Sabei FSR as the road is unmaintained, narrows and ends in unpassable swamp.
- 10. At km 14.1 of Holder FSR (10U 491979E 6096295N) turn southwest onto Dickmur Road.
- 11. At km 5.9 of Dickmur Road (10U 489692E 6099187N) turn east onto the unnamed road and park your vehicle. The unnamed road is grown-in with alder and must be cleared before vehicles can reach a turn-around area.
- 12. Walk 370m east along the unnamed road to reach the Royer Lake Nickel property.

An exposed gossanous outcrop was sampled (RL21001 – RL21023). The rock appears to be limestone with areas of calcite veining.

The trench from ATW Ventures Assessment Report Fig 7 is immediately beside a beaver pond/swamp. At the beaver dam there is a large rounded boulder (0.5m diameter) with some red/brown coloration. At the south end of the swamp is a road cut that I sampled along (RL21024 – RL21027). I also sampled on a knoll immediately south of the road cut (RL21028 – RL21031). There is evidence of small hand-dug trenches (0.5m wide X 3m long) on the east end of the knoll.

CLAIM STATUS

The property consists of 2 mineral claims, as shown in Table 1 and Figure 3.

List of Claims									
Tenure #	Claim Name	Area (ha)	Issue Date	Good to Date*	Owner				
1082409	Royer Lake Nickel	518.91	May 2, 2021	August 29, 2024	J. T. Shearer				
1082410	Royer Lake Nickel 2	148.20	May 2, 2021	August 29, 2024	J. T. Shearer				
Total 667.11ha									

Table 1

*by assessment work contained in this report

Cash may be paid in lieu if no work is performed. Following revisions to the Mineral Tenures Act on July 1, 2012, claims bear the burden of \$5 per hectare for the initial two years, \$10 per hectare for year three and four, \$15 per hectare for year five and six and \$20 per hectare each year thereafter.



Figure 3 Claim Map

HISTORY

In April to June 2007, ATW Ventures Ltd completed a geochemical and trenching program on the Nickel-1, Nut 2-3-4-5, and Jack 3, 5, 7, 9,11,13,15 and 17 as well as Carp 11-12-13-14-15 mineral claims.

The program was designed to test areas of carbonate altered rocks on the Jack claims, nickel bearing limestones on the Nickel 1 claim as well as altered rocks on the Nut claims and areas of zinc mineralization in skarn rocks on the Carp claims.

A total of 1035 soil and silt samples were collected from grid lines as well as along logging roads. A total of 60 rock samples were taken, mainly from 4 trench areas and over the nickel showing on the Nickel 1 claim. The area of the claims is underlain by deep overburden consisting of alluvial gravels. Outcrops form less than 5 % of the survey area.

Fire geochem gave a range of <1 to 882 ppb gold and ICP analysis showed <0.2 to 24.1 ppm Ag, <1 to 993 Cu, 1 to 1956 ppm Ni, 2 to >10,000 ppm Pb and 0.1 ppm to 7.8 % Zn.

The survey outlined anomalous values for all the above metals in all areas surveyed.

Further work including geochemistry is recommended for the claim area.

In May 2006, Mountain Boy Minerals completed a short drilling program on the Nickel-1 mineral claim and Boot 17 placer claim. **A** total of 254.8 meters of BTW size drilling was completed in 4 holes; 3 on the Nickel 1 claim and 1 on the Boot 18 claim. Two holes on the Nickel 1 claim just north of DDH-2006-NI-2 were abandoned at 20-30 meters each due to the presence of sand along a major structure.

The program was designed to test very strongly altered ultramafic rocks with strong "nickel bloom "stain on the Nickel 1 claim. Several outcrops of these rocks were located in this area during 2004 prospecting by Mountain Boy Minerals. Values up to 2000 ppm were obtained from these nickel bearing rocks Drilling intersected highly sheared serpentinized pyroxenite with local concentrations of coarse pyrite both as disseminated grains and late fracture fillings in areas of highly sheared, graphitic shale, coal and limestone.

Assay results from the strongly altered ultramafic rocks obtained during 2006 drilling on Nickel-1 claim returned nickel, chromium, cobalt and copper values within the range expected for ultramafic rocks. Most nickel values were between 1000 and 2000 ppm with a high of 2158 ppm. Chromium assays were between 762 and 1495 ppm. Cobalt assays ranged from 24 to 161 ppm. The highest value for copper was 28 ppm.

1997

Prospector R. Osmond conducted a small program of soil and rock sampling on his own Bob claims. This area is now covered by Nickel-1 claim.

2004

Mountain Boy Minerals conducted a small rock and soil sampling program concentrated on Nickel-1 claim where several outcrops of very strongly altered ultramafic rocks with strong "nickel bloom" staining were located.

LIGNITE LAKE

In an area located on the west side of Lignite Lake, an unknown company conducted a short, 610 metre drilling program to test molybdenite bearing quartz porphyry sill. Results of this program are not available.

1973

In the wake of finding a nickel-copper bearing ultramafic float on Nick claims (located just south of Lignite Lake), El Paso Minerals conducted geological mapping, prospecting, ground magnetometer survey along with soil and rock geochemistry.

2005

Mountain Boy Minerals carried out a small rock and soil sampling program on the west side of Lignite Lake.

2006

Mountain Boy Minerals completed a small 3 holes (230.8m) drilling program on Nickel-1 claim. The holes tested very strongly altered ultramafic rocks with strong "nickel bloom" staining.

REGIONAL GEOLOGY

Geologic mapping of this area on a regional scale was undertaken in 1946 by Armstrong, Tipper and Hoadley of the Geological Survey of Canada. The work was finally completed by Tipper in 1961 as G.S.C. Map 1204A. The following description of the regional geology in the property area is based on a BCGS map.

The property is dominated by four regional lithological units. The area of Jack claims, the most southern portion of Carp claims and most of Nut claims are underlined by Middle to Upper Triassic Takla group composed of mudstone, siltstone and shale. To the northeast this unit is in contact with volcanic rocks of basaltic composition which also belong to Takla group of Triassic to Jurassic age. The northeast part of the Carp claims is dominated by Tertiary age plutonic rocks composed of granite and alkali feldspar granite. The southwest part of Carp claims is underlined by Upper Cretaceous to Eocene age Wolverine metamorphic complex comprised of calcsilicate metamorphic rocks. In the northwest corner of Carp claims there is an occurrence of Cambrian Atan group composed of undivided sedimentary rocks. In the northwest corner of Nut claims there is a small occurrence of late Triassic to early Jurassic ultramafic rocks (unnamed).

The area of Nut claims features very few outcrops. One area with some rock exposure is located around Royer Lake (Figure 4). This part of Nut claims is dominated by argillites and siltstones accompanied by andesite and diorite. Diorite contains 1-2% disseminated pyrite and 1% disseminated magnetite. In the same general area, the Royer Lake showing (Minfile No. 0930044) features a large outcrop of coarsely crystalline pyroxenite with pods of pyrite and magnetite.

In another area, on the Nickel-1 claim, there are a few outcrops of strongly altered ultramafic rock (listwanite). The rocks are very rusty from abundant limonite, and in a few places have a characteristic green colour ("nickel bloom") caused by disseminated secondary nickel minerals.



Figure 4 Regional Geology

Geochemical Assessment Report on the Royer Lake Project December 20, 2021

LOCAL GEOLOGY

The claims contain alteration-mineralization related to ultramafic rocks.

The Royer Lake showing (Minfile No. 0930044) is located in the northern part of the Nut -1 claim (Figure 4). The showing consists of medium grained magnetite and pyrite in small pods hosted in a rusty, locally gossan-like, coarsely crystalline pyroxenite. The magnetite-pyrite pods, scattered over a 10 by 10 metre, area are exposed in a prominent knob north of Royer Lake.

In another area, on the Nickel-1 claim, there are a few outcrops of strongly altered ultramafic rock (listwanite). The rocks are very rusty from abundant limonite and in a few places have a characteristic green colour caused by disseminated secondary nickel minerals. A couple dozen rock grab samples taken from this altered ultramafic rock by R. Osmond (1 977) and the author (2004) returned anomalous values in nickel, chromium and copper. All samples collected in 2004 were also assayed for platinum. No anomalous values were detected.

2006 DRILLING PROGRAM

In May 2006, Mountain Boy Minerals completed a short drilling program on the Nickel-1 claim. Drilling on the Nickel claim was slower than anticipated due to bad drilling conditions and frozen water lines and pumps. Two holes were attempted just north of DDH-2006-NI-2 but both holes encountered over 20-30 meters of sand and rods were stuck in one of these holes. Figures 5-6 shows the area of drilling on the Nickel claim.

The program was designed to test very strongly altered ultramafic rocks with strong "nickel bloom "stain and pentlandite mineralization. Several outcrops of these rocks were located in this area during 2004 prospecting by Mountain Boy Minerals. Values up to 2000 ppm were obtained from these nickel bearing rocks. Initially 300 meters was planned in 3 holes but due to bad ground and resulting drilling problems only 230.8 metres was completed. A first drill pad was located at UTM co-ordinates 489797E and 6098876N, with a hole drilled at an azimuth 150 degrees and a minus 75 degrees dip. From 4.3 to 54.6 metres the hole intersected highly sheared serpentinized pyroxenite with local concentrations of coarse pyrite both as disseminated grains and late fracture fillings From 54.6 to 75.9 meters (end of the hole) the hole intersected highly sheared, graphitic shale.

The second hole was drilled at UTM co-ordinates 489799 E and 6098872 N, at an azimuth of 072 degrees and a minus 55 degree dip. The hole encountered sheared black shale, gouge and sand and was terminated at 36.6 meters. Two holes just north of DDH NI-2006-2 were abandoned at 20-30 meters each due to the presence of sand along a major structure. Several days were spent in recovering stuck drill rods and as a result, the third drill hole location was moved back to the area of DDH-NI-2006- 1.

The third hole was drilled off the same set-up as hole 1 but at an azimuth of 170 degrees and a minus 75 degree dip. The hole encountered highly sheared serpentinized pyroxenite from 8.2 to 35.1 metres, and limestone and shale throughout the reminder of the hole, which was terminated at 118.3 metres. At the contact with the limestone, the hole intersected a 1.4 meter section of strongly "nickel bloom" stained silicified limestone. Figure 6 shows the Sample Locations and Results.

Assay results from the strongly altered ultramafic rocks obtained during 2006 drilling on Nickel-1 claim returned nickel, chromium, cobalt and copper values within range expected for ultramafic rocks. Most nickel values were between 1000 and 2000 ppm with the high of 2158 ppm. Chromium assays were between 762 and 1495 ppm. Cobalt assays ranged from 24 to 161 ppm. The highest value for copper was 28 ppm.



Figure 5 Google Image Showing Waypoints



Figure 6 2021 Sampling

EXPLORATION 2021

Work in 2021 focussed on rock and soil sampling along the main access roads and previous trench activities.

Assay results and descriptions of the 14 rock samples and 13 soil samples are plotted on Figure 6 and contained in Appendix III.

Assays were conducted by using an XRF Unit factory calibrated (Cert No. 0154-0557-1) on October 30, 2013, Instrument #540557 Type Olympus DPO-2000 Delta Premium. The instrument was calibrated using Alloy Certified reference materials by ARM1 and NIS5 standards. Only certified operators were employed and that were experienced in XRF assay procedures. Read times were 120 seconds or greater.

Highly anomalous nickel and chromium were returned for soil samples RL21025 and RL21026 associated with a sloughed trench near the southern limit of sampling. Higher Ni results are apparent to the south of sample RL21028. High nickel and chromium in soils was also noted in soil sample RL21011 with 539ppm Ni, in the central part of the access road. This area is underlain by pyritic green calcareous sandstone and shale.



Figure 7 Sample Locations and Results

CONCLUSIONS and RECOMMENDATIONS

In May 2006, Mountain Boy Minerals completed a short drilling program on the Nickel-1 mineral claim.

The program was designed to test very strongly altered ultramafic rocks with strong "nickel bloom "stain on the Nickel 1 claim. Several outcrops of these rocks were located in this area during 2004 prospecting by Mountain Boy Minerals. Values up to 2000 ppm were obtained from these nickel bearing rocks Drilling intersected highly sheared serpentinized pyroxenite with local concentrations of coarse pyrite both as disseminated grains and late fracture fillings in areas of highly sheared, graphitic shale, coal and limestone.

Assay results from the strongly altered ultramafic rocks obtained during 2006 drilling on Nickel-1 claim returned nickel, chromium, cobalt and copper values within the range expected for ultramafic rocks. Most nickel values were between 1000 and 2000 ppm with a high of 2158 ppm. Chromium assays were between 762 and 1495 ppm. Cobalt assays ranged from 24 to 161 ppm. The highest value for copper was 28 ppm.

This area should be examined for the presence of nickel, copper and platinum within ultramafic intrusion located just north of Royer Lake (Nut-1 and Nut-2 claims). The intrusion contains pods of magnetite and pyrite (no records of sampling this intrusion were found). The study of heavy mineral concentrates from McDougall River conducted in 2001 by the McDougall River Syndicate (Kruchkowski, 2002) proved that most platinum and palladium is associated with magnetite.

Elsewhere within the block of the former Nut claims (Nickel-1 claim), a few dozen rock and soil samples were collected from a strongly altered ultramafic rock. In 2006 these rocks were tested by 3 short holes totaling 230.8 metres. All samples derived from these rocks (soil, grab samples and core) returned relatively high values in nickel, chromium' and cobalt. These values however are not anomalous since they are within limits expected for these elements in ultramafic rocks which typically have the highest concentrations of these elements compared to other rock types.

Area West of Lignite Lake

This area features numerous float of altered peridotite located by an old decommissioned forestry road. The float is believed to come from two separate intrusions; size of one of them is estimated at a minimum of 200-300 metres across. A dozen or so samples from these boulders returned anomalous nickel values ranging from 2000 to 3200 ppm, weak copper and no platinum. The boulders contained very little sulphides. Only one boulder contained 5- 10 % pyrrhotite and minor chalcopyrite; it assayed only 346 ppm copper. An examination of thin sections from this nickel-bearing rock revealed very little sulphides content.

In 2021 highly anomalous nickel and chromium values were returned for soil samples #25 and 26 associated with a sloughed trench near the southern limit of sampling. Higher Ni results are apparent to the south of sample #28. High nickel and chromium in soils was also noted in soil sample #11 with 539ppm Ni, in the central part of the access road. This area is underlain by pyritic green calcareous sandstone and shale.

Propose budget for Phase 1 Exploration Program

Fees, Insurance, Permits	\$10,000
Field Equipment, Supplies, Shipping	3,000
Food, Accommodation (in McKenzie)	10,000
Analyses – soil, water, rock – 320 samples @ \$25/sample	8,000
Excavator – 75 hrs @ \$200/hr	15,000
Vehicle Rental + gas	5,000
Helicopter	5,000
Field Personnel	
1 Geologist, 15 days @ \$800/day	12,000
1 Field Technician, 15 days @ \$300/day	4,500
Report, Compilation, Graphic Figures	5,000
Total	\$77,500

REFERENCES

Bridge D., 2001: Geological, Geochemical and Geophysical report on Snow 1-4 Claims. Assessment report 26,461. Bridge D., 2001, Geological, Geochemical and Geophysical report on Chain 1-4 claims. Assessment report 26,462

Brown R.F., 1988, Report on soil geochemistry and line-cutting. Assessment report 18,157.

Cooke D.L., 1991, Report on Geochemistry and Geology of the Cat0 1 &2 claims. Assessment report 21,753.

Dandy, L., 1989 - Geological, Geochemical and Geophysical Report on the G-North and Plasway Properties. Assessment Report 19,329.

De Carle, J., 1987 - Report on Combined Helicopter Electromagnetic, Magnetic and VIF-EM Survey, G-North and Plasway Properties. Assessment Report 16,269

Faulkner R.L., 1980, Report on the Geology of the Koots-1 claim, Assessment report 8,775. Faulkner, 198 1, Report on the geology of the Koots 1, Sean - 1, Windy- 1 claims: Assessment report 9,921. Faulkner R.L, 198 1, Report on the geology of the Nite- 1 claim, Assessment report 9764.

Gatey, K., - Testing and Work Report, McDougall River, BC

Geological Survey of Canada - Maps 979A and 1204A Geological Survey of Canada - Aeromagnetic Maps 1563E, 1562G, 15726 and 1573E

Holmgren, L. and Kowalchuk J.M., 1987; Geology, Geochemists and Geophysics, Report on the G-North Property. Assessment Report, 15,879

Konings, M.N., 1984; Airborne Electromagnetic and Magnetic Survey Report on the G-North Property. Assessment Report 13,215

Kruchkowski E., 2002, Report on Geology and Testing of Claim Holdings Owned by McDougall River Syndicate.

Minfile Mineral Inventory

Minister of Mines and Petroleum Resources - Annual Report 1932, pages A88-91 Minister of Mines and Petroleum Resources - Annual Report 1933, pages A 100-1 05 Minister of Mines and Petroleum Resources - Annual Report 1936, pages C3 1-33

Montgomery, J.A., 1986 - Report on the McDougall River Placer Gold Prospect

Richards, G.G., 1986 - Report on the Mineral Potential of the McLeod Prospect. Assessment Report 16,880.

Rubles, V.J., 1986 - Occurrences and Distribution of Platinum Group Elements in British

Taylor, 1973; Geology, geochemistry and ground magnetics of the Nick 1-8 and 21-26 claims, assessment report 4,706

Troup A., 198 1, Geochemical, Geological and Geophysical report on G-North Property Assessment report 10,231. Troup A. and Darby L., 1983 - Geology, Geochemistry and Geophysics Report on G-North Property. Assessment Report 12,164

Troup A., Freeze J.C., 1985; Report on Geochemical, Geological and Geophysical work on G North claims, Assessment report 13,750.

Walcott, P.E., 1990 - A Geophysical Report on Magnetic and Electromagnetic Surveying Columbia - MacLeod River area. Assessment Report 19,930.

APPENDIX I

STATEMENT OF QUALIFICATIONS

DECEMBER 20, 2021

STATEMENT of QUALIFICATIONS

I, Johan T. Shearer of Unit 5 – 2330 Tyner Street, in the City of Port Coquitlam, in the Province of British Columbia, do hereby certify:

- 1. I graduated in Honours Geology (B.Sc., 1973) from the University of British Columbia and the University of London, Imperial College, (M.Sc. 1977).
- I have practiced my profession as an Exploration Geologist continuously since graduation and have been employed by such mining companies as McIntyre Mines Ltd., J.C. Stephen Explorations Ltd., Carolin Mines Ltd. and TRM Engineering Ltd. I am presently employed by Homegold Resources Ltd.
- 3. I am a fellow of the Geological Association of Canada (Fellow No. F439). I am also a member of the Canadian Institute of Mining and Metallurgy, the Geological Society of London and the APO (Ontario). I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (P.Geo., Member Number 19,279).
- 4. I am an independent consulting geologist employed since December 1986 by Homegold Resources Ltd. At Unit #5 2330 Tyner Street, Port Coquitlam, British Columbia.
- 5. I am the author of the report entitled "Geochemical Assessment Report on the Royer Lake Project" dated December 20, 2021.
- 6. I have worked on the property on October 4-6, 2021. I have carried out mapping and sample collection and am familiar with the regional geology and geology of nearby properties. I have become familiar with the previous work conducted on the Royer Lake Project by examining in detail the available reports and maps and have discussed previous work with persons knowledgeable of the area.

Dated at Port Coquitlam, British Columbia, this 20th day of December 2021.

J.T. Shearer, M.Sc., P. Geo. (BC & Ontario) FSEG

APPENDIX II

STATEMENT of COSTS

DECEMBER 20, 2021

Appendix II STATEMENT of COSTS ROYER LAKE PROJECT 2021

Wages & Benefits	Without GST
J. T. Shearer, M.Sc., P.Geo (BC & Ontario) FSEG; 2 day @ \$800/day, October 4, 5 +6, 2021	\$ 1,600.00
J. Grabavac, Prospector; 2 day @ \$400/day, October 4, 5 +6, 2021	800.00
Subtotal	\$ 2,400.00
Transportation	
Truck 1 - Fully equipped 4x4 truck, 2 day @ \$150/day	300.00
Truck 2 - Fully equipped 4x4 truck, 2 days @ \$150/day	300.00
Fuel	800.00
Hotel	240.00
Meals	120.00
XRF Analysis and Operator	350.00
Data Compilation & Mapping	600.00
Report Preparation	800.00
Word Processing	400.00
Subtotal	\$ 3,910.00
Grand total	\$ 6,310.00

 Event #
 5857103

 Date Filed
 December 20, 2021

 Amount Filed
 \$ 6,200.00

 PAC
 \$ 2,646.14

 Total Filed
 \$ 8,846.14

APPENDIX III

SAMPLE DESCRIPTIONS and LOCATIONS

DECEMBER 20, 2021

Royer Lake Sample Descriptions

Barting The	Sample #	Type	ΔΙ	Si	Ni	Cr	7n	к	Δs	Cu	Ca	Fe	Description
Inclusion Data Data Data Data Data Data Description R12100 Soil 4.10 1.159 0.0068 0.0112 0.0606 Medium brown, rocky, slabby R12100 Soil 4.10 1.159 0.0068 0.0117 0.001 850 Dark brown R12100 Soil 3.79 10.12 0.0054 ND 0.256 0.017 0.024 Movem R12101 Soil 3.79 10.74 0.0066 0.0256 0.024 1.17 Medium brown R12101 Soil 3.79 10.74 0.0066 0.0256 0.024 1.17 No 0.017 R121012 Soil 3.50 15.50 0.035 0.0666 0.045 1.16 No No No Soids in the standard standar	BI 21005	Soil	4.62	12.22	0.0064	0.0171	211	ĸ	7.5	cu	1 9/	10.60	Medium brown, rocky
NL1:00 Join J.N.1 USD/S OLDE Code Stabby Interdum (recky) R121007 Soil 4.10 11.59 0.0068 0.0197 Image: Code Soil Sibby R121008 Soil 4.21 ND 0.0117 Image: Code Bark brown R121001 Soil 4.37 10.74 0.0054 ND Image: Code Image	RL21005	Soil	5.28	1/ 1	0.0004	0.0171					0.6026	10.00	Medium brown, rocky
R121007 Soil 4.10 11.59 0.0068 0.017 Image: constraint of the second seco	1121000	3011	5.58	14.1	0.0075	0.0212					0.0020		slabby
R121008 Soil 4.12 12.27 ND 0.017 Image: Constraint of the constrain	RL21007	Soil	4.10	11.59	0.0068	0.0197					1.17		Medium brown
R121009 Soil 3.79 10.12 0.0054 ND 0.0256 Image: Constraint of the second seco	RL21008	Soil	4.12	12.27	ND	0.0117						8.50	Dark brown
RL21010 Soil 4.37 10.74 0.006 ND Image: Constraint of the second s	RL21009	Soil	3.79	10.12	0.0054	ND	0.0256						Dark brown
RI21011 Soil 3.50 15.95 0.0533 0.0606 Participant Paritipant Paritipant	RL21010	Soil	4.37	10.74	0.006	ND							Light orangey brown
RL21012 Rock 6.21 13.66 0.0052 ND 2.97 Image: Constraint of the stress of the grained, extremely rusty, pyrtic green, layered sandstone RL21013 Rock 2.99 5.8117 0.0068 0.044 Image: Constraint of the stress of the	RL21011	Soil	3.50	15.95	0.0539	0.0606							Light orangey brown, high Ni
RL21013 Rock 2.99 5.8117 0.0068 0.044 C C Black shale, slightly foliated andstone RL21014 Rock 6.78 17.3 0.0054 0.0155 E E Black shale, slightly foliated meter, dense, phyllites, fine grained sandy tuff RL21015 Rock 6.66 2.3539 ND ND Solution	RL21012	Rock	6.21	13.66	0.0052	ND		2.97					Rock very dense, fine
RL21013 Rock 2.99 5.8117 0.0068 0.044 Image: Constraint of the start of the													grained, extremely rusty,
RL21013 Rock 2.99 5.8117 0.0068 0.044 Image: Constraint of the section of th													pyritic green, layered
R121013 Rock 2.99 5.8117 0.0068 0.044 Image: Constraint of the second sec													sandstone
RL21014 Rock 6.78 17.3 0.0054 0.0155 Image: Constraint of the const	RL21013	Rock	2.99	5.8117	0.0068	0.044							Black shale, slightly foliated
RL21015Rock0.662.3539NDNDND39.11Phyllites, fine grained sandy tuffRL21016Rock4.1511.460.0077ND0.085339.11Phyllitic green tuff with rusty limestone with quartz blebs, calcite veinletRL21016Rock4.1511.460.0077ND0.08530.0853Dark green/grey/black, fine grained dense, shale rusty tuff, calcite blebs, drusyRL21017Rock3.9316.910.0046ND15.72Green weathering, fine grained andesiteRL21018Rock4.209.360.020615.72Dark green/fire grained andesite cut by irregular carbonate veinletsRL21019Rock6.1912.440.01130.036315.72Dark green fine grained andesite cut by irregular carbonate veinletsRL21020Rock4.0211.380.00860.01610.9Ner yusty, heavy, light to moderate grey, fine grained ultramaficRL21021Rock4.2612.02NDND10.9Dark grey shale, carbonate veining, tension veinsRL21022Rock4.131.460.00470.014810.9Dark grey tuff, rusty, 	RL21014	Rock	6.78	17.3	0.0054	0.0155							Medium green, dense,
RL21015RockO.662.3539NDNDND39.11Phyllitic green tuff with rusty limestone with quartz blebs, calcite weinletRL21016Rock4.1511.460.0077NDND0.0853Dark green/grey/black, fine grained dense, shale rusty tuff, calcite blebs, drusyRL21017Rock3.9316.910.0046NDImage: Comparison of the comparis													phyllites, fine grained sandy
RL21015 Rock 0.66 2.3539 ND ND ND Sector 39.11 Phyllitic green tuff with rusty limestone with quartz blebs, calcite veinlet RL21016 Rock 4.15 11.46 0.0077 ND ND 0.0853 Dark green/grey/black, fine grained dense, shale rusty tuff, calcite blebs, drusy RL21017 Rock 3.93 16.91 0.0046 ND Image: Calcite veinlet Dark green/grey/black, fine grained dense, shale rusty tuff, calcite blebs, drusy RL21017 Rock 3.93 16.91 0.0046 ND Image: Calcite veinlet Dark green/grey/black, fine grained dense, shale rusty tuff, calcite blebs, drusy RL21018 Rock 4.20 9.36 0.0045 0.0206 Image: Calcite veinlet Dark brown weathering andesite cut by irregular carbonate with carbonate dense; blebs, drusy RL21019 Rock 6.19 12.44 0.013 0.0363 Image: Calcite veinlet Dark green fine grained undesite with carbonate veinlets RL21020 Rock 5.53 12.89 0.0055 0.0143 Image: Calcite veinlet Dark green fine grained undesite grey, fine grained undesite wit													tuff
RL21016 Rock 4.15 11.46 0.0077 ND ND 0.0853 Dark green/gree//jree//black, fine grained dense, shale rusty tuff, calcite blebs, drusy tuff, drusty, carbonate drust blebs, drusy tuff, drusty, drusy tuff, drusty tuf	RL21015	Rock	0.66	2.3539	ND	ND					39.11		Phyllitic green tuff with rusty
RL21016Rock4.1511.460.0077NDNDND0.0853Dark green/grey/black, fine grained dense, shale rusty tuff, calcite belbs, drusyRL21017Rock3.9316.910.006NDNDGreen weathering, fine grained dense, shale rusty tuff, calcite belbs, drusyRL21018Rock4.209.360.00450.0206NDSine Sine Sine Sine Sine Sine Sine Sine													limestone with quartz blebs,
RL21016 Rock 4.15 11.46 0.0077 ND ND 0.0853 Dark green/grey/black, fine grained dense, shale rusty tuff, calcite blebs, drusy RL21017 Rock 3.93 16.91 0.0046 ND Secondary Green weathering, fine grained adesite RL21018 Rock 4.20 9.36 0.0045 0.0206 Image: Secondary S													calcite veinlet
RL21017 Rock 3.93 16.91 0.0046 ND ND Second Secon	RL21016	Rock	4.15	11.46	0.0077	ND				0.0853			Dark green/grey/black, fine
RL21017 Rock 3.93 16.91 0.0046 ND Image: Constraint of the second													grained dense, shale rusty
RL21017 Rock 3.93 16.91 0.0046 ND Image: Constraint of the second													tuff, calcite blebs, drusy
RL21018 Rock 4.20 9.36 0.0045 0.0206 Image: Constraint of the second co	RL21017	Rock	3.93	16.91	0.0046	ND							Green weathering, fine
RL21018 Rock 4.20 9.36 0.0045 0.0206 15.72 Dark brown weathering andesite cut by irregular carbonate veinlets RL21019 Rock 6.19 12.44 0.0113 0.0363 Dark green fine grained andesite with carbonate veinlets RL21020 Rock 4.02 11.38 0.0086 0.016 Dark green fine grained andesite with carbonate veining, tension veins RL21021 Rock 5.53 12.89 0.0055 0.0143 Dark green fine grained andesite with carbonate and the provint of moderate grey, fine grained ultramafic RL21021 Rock 4.26 12.02 ND ND ND Dark green fine grained andesite with carbonate alteration in wisplenese RL21022 Rock 4.26 12.02 ND ND ND Dark green fine grained alteration in wisplenese RL21023 Rock 4.13 11.46 0.0047 0.0148 Endowing fine fine fine fine fine fine fine fine													grained andesite
RL21019Rock6.1912.440.01130.0363Image: Construct on the second construction of the sec	RL21018	Rock	4.20	9.36	0.0045	0.0206					15.72		Dark brown weathering
RL21019Rock6.1912.440.01130.0363Image: Constraint of the second of the s													andesite cut by irregular
RL21019 Rock 6.19 12.44 0.0113 0.0363 Image: Constraint of the second sec				_									carbonate veinlets
RL21020Rock4.0211.380.00860.016Image: Constraint of the second se	RL21019	Rock	6.19	12.44	0.0113	0.0363							Dark green fine grained
RL21020 Rock 4.02 11.38 0.0086 0.016 Image: Constraint of the const													andesite with carbonate
RL21020 ROCK 4.02 11.38 0.0086 0.016 Image: Constraint of the second s	DI 24020	Deals	4.02	11.20	0.0000	0.010							Veining, tension veins
RL21021 Rock 5.53 12.89 0.0055 0.0143 10.9 Dark grey shale, carbonate alteration in wispy lenses RL21022 Rock 4.26 12.02 ND ND ND Dark grey, tuff, rusty, carbonate, green RL21023 Rock 4.13 11.46 0.0047 0.0148 Dark grey, tuff, rusty, carbonate, green RL21024 Soil 6.92 14.22 0.0052 0.0149 Green-grey tuff, slightly phyllitic RL21025 Soil 7.43 14.56 0.0128 0.0164 A Horizon woodchips, black soil RL21025 Soil 7.43 14.56 0.0128 0.0164 Dark grey black, rocky RL21025 Soil 7.43 14.56 0.0128 0.0028 Dark grey black, rocky RL21026 Soil 5.33 10.65 0.0536 0.0363 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 ND Ilight grey, rocky RL21028 Soil 5.72 15.21 0.0092 0.0148 Dark grey, rocky RL21029 Soil	RL21020	КОСК	4.02	11.38	0.0086	0.016							very rusty, neavy, light to
RL21021 Rock 5.53 12.89 0.0055 0.0143 10.9 Dark grey shale, carbonate alteration in wispy lenses RL21022 Rock 4.26 12.02 ND ND Dark grey, tuff, rusty, carbonate, green RL21023 Rock 4.13 11.46 0.0047 0.0148 Dark grey, tuff, rusty, carbonate, green RL21024 Soil 6.92 14.22 0.0052 0.0149 Green-grey, tuff, slightly phyllitic RL21025 Soil 7.43 14.56 0.0128 0.0164 A Horizon woodchips, black soil RL21025 Soil 7.43 14.56 0.0128 0.0164 Dark grey black, rocky RL21025 Soil 7.43 14.56 0.0128 0.0028 Dark grey black, rocky RL21026 Soil 5.33 10.65 0.0536 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 D Dark grey, pebbly RL21028 Soil 5.72 15.21 0.0092 0.0148 Dark grey, rocky RL21029 Soil 6.13 17.61													inouerate grey, fine grained
RL21021 NOLK 5.33 12.39 0.0033 0.0143 10.9 10.9 Dark grey shale, carbonate alteration in wispy lenses RL21022 Rock 4.26 12.02 ND ND Dark grey, tuff, rusty, carbonate, green RL21023 Rock 4.13 11.46 0.0047 0.0148 Green-grey tuff, slightly phyllitic RL21024 Soil 6.92 14.22 0.0052 0.0149 Alteration in wispy lenses RL21025 Soil 7.43 14.56 0.0128 0.0149 Alteration in wispy lenses RL21025 Soil 7.43 14.56 0.0128 0.0149 Alteration in wispy lenses RL21025 Soil 7.43 14.56 0.0128 0.0164 Alteration in wispy lenses RL21026 Soil 5.33 10.65 0.0536 0.0363 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 ND Light grey, rocky RL21028 Soil 5.72 15.21 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 </td <td>DI 21021</td> <td>Bock</td> <td>E E 2</td> <td>12.00</td> <td>0.0055</td> <td>0.0142</td> <td></td> <td></td> <td></td> <td></td> <td>10.0</td> <td></td> <td>Dark grov shale, carbonate</td>	DI 21021	Bock	E E 2	12.00	0.0055	0.0142					10.0		Dark grov shale, carbonate
RL21022 Rock 4.26 12.02 ND ND ND Dark grey, tuff, rusty, carbonate, green RL21023 Rock 4.13 11.46 0.0047 0.0148 Green-grey tuff, slightly phyllitic RL21024 Soil 6.92 14.22 0.0052 0.0149 A Horizon woodchips, black soil RL21025 Soil 7.43 14.56 0.0128 0.0164 Dark grey black, rocky RL21026 Soil 5.33 10.65 0.0536 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 ND Medium grey, pebbly RL21029 Soil 5.72 15.21 0.0092 0.0148 Medium grey, pebbly RL21029 Soil 6.13 17.61 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0147 Black shale, slightly foliated	REZIUZI	NUCK	5.55	12.09	0.0055	0.0145					10.9		alteration in wisny lenses
RE21022 Nock 4.25 12.02 ND ND ND ND Carbonate, green RL21023 Rock 4.13 11.46 0.0047 0.0148 Green-grey tuff, slightly phyllitic RL21024 Soil 6.92 14.22 0.0052 0.0149 A Horizon woodchips, black soil RL21025 Soil 7.43 14.56 0.0128 0.0164 A Horizon woodchips, black soil RL21026 Soil 5.33 10.65 0.0536 0.0363 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 ND Light grey, rocky RL21028 Soil 5.72 15.21 0.0077 0.0138 Dark grey, rocky RL21029 Soil 6.13 17.61 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0121 Black shale, slightly foliated Bl21031 Rock 7.74 15.38 0.005 0.0147 Black soft shale slightly	BI 21022	Bock	4.26	12.02	ND	ND							Dark grey tuff rusty
RL21023 Rock 4.13 11.46 0.0047 0.0148 Green-grey tuff, slightly phyllitic RL21024 Soil 6.92 14.22 0.0052 0.0149 A Horizon woodchips, black soil RL21025 Soil 7.43 14.56 0.0128 0.0164 Dark grey black, rocky RL21026 Soil 5.33 10.65 0.0536 0.0363 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 ND Light grey, rocky RL21028 Soil 5.72 15.21 0.0077 0.0138 Dark grey, rocky RL21029 Soil 6.13 17.61 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0121 Black shale, slightly foliated RL21031 Rock 7.74 15.38 0.005 0.0147 Black soft shale slightly	1121022	NOCK	4.20	12.02	ND	ND							carbonate, green
RL21024 Soil 6.92 14.22 0.0052 0.0149 A Horizon woodchips, black soil RL21024 Soil 6.92 14.22 0.0052 0.0149 A Horizon woodchips, black soil RL21025 Soil 7.43 14.56 0.0128 0.0164 Dark grey black, rocky RL21026 Soil 5.33 10.65 0.0536 0.0363 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 ND Light grey, rocky RL21028 Soil 5.72 15.21 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0121 Black shale, slightly foliated RL21031 Rock 7.74 15.38 0.005 0.0147 Black soft shale slightly	RI 21023	Rock	4.13	11.46	0.0047	0.0148							Green-grey tuff, slightly
RL21024 Soil 6.92 14.22 0.0052 0.0149 A Horizon woodchips, black soil RL21025 Soil 7.43 14.56 0.0128 0.0164 Dark grey black, rocky RL21026 Soil 5.33 10.65 0.0536 0.0363 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 ND Light grey, rocky RL21028 Soil 5.72 15.21 0.0092 0.0148 Medium grey, pebbly RL21029 Soil 6.13 17.61 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0121 Black shale, slightly foliated RL21031 Bock 7.74 15.38 0.005 0.0147 Black soft shale slightly					010017	0.0110							phyllitic
RL21025 Soil 7.43 14.56 0.0128 0.0164 Soil Soil RL21026 Soil 5.33 10.65 0.0128 0.0164 Dark grey black, rocky RL21026 Soil 5.33 10.65 0.0363 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 ND Light grey, rocky RL21028 Soil 5.72 15.21 0.0092 0.0148 Medium grey, pebbly RL21029 Soil 6.13 17.61 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0121 Black shale, slightly foliated Bl21031 Bock 7.74 15.38 0.005 0.0147 Black shale slightly	RL21024	Soil	6.92	14.22	0.0052	0.0149							A Horizon woodchips, black
RL21025 Soil 7.43 14.56 0.0128 0.0164 Dark grey black, rocky RL21026 Soil 5.33 10.65 0.0536 0.0363 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 ND Light grey, rocky RL21028 Soil 5.72 15.21 0.0092 0.0148 Medium grey, pebbly RL21029 Soil 6.13 17.61 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0121 Black shale, slightly foliated Bl21031 Bock 7.74 15.38 0.005 0.0147 Black soft shale slightly													soil
RL21026 Soil 5.33 10.65 0.0536 0.0363 0.0028 Dark grey black, rocky RL21027 Soil 1.76 8.23 0.0088 ND Light grey, rocky RL21028 Soil 5.72 15.21 0.0092 0.0148 Medium grey, pebbly RL21029 Soil 6.13 17.61 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0147 Black shale, slightly foliated Bl21031 Bock 7.74 15.38 0.005 0.0147 Black soft shale slightly	RL21025	Soil	7.43	14.56	0.0128	0.0164							Dark grey black, rocky
RL21027 Soil 1.76 8.23 0.0088 ND Light grey, rocky RL21028 Soil 5.72 15.21 0.0092 0.0148 Medium grey, pebbly RL21029 Soil 6.13 17.61 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0121 Black shale, slightly foliated RL21031 Bock 7.74 15.38 0.005 0.0147 Black soft shale slightly	RL21026	Soil	5.33	10.65	0.0536	0.0363			0.0028				Dark grey black, rocky
RL21028 Soil 5.72 15.21 0.0092 0.0148 Medium grey, pebbly RL21029 Soil 6.13 17.61 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0121 Black shale, slightly foliated RL21031 Bock 7.74 15.38 0.005 0.0147 Black soft shale slightly	RL21027	Soil	1.76	8.23	0.0088	ND							Light grey, rocky
RL21029 Soil 6.13 17.61 0.0077 0.0138 Dark grey, rocky RL21030 Rock 4.55 7.36 0.0069 0.0121 Black shale, slightly foliated RL21031 Rock 7.74 15.38 0.005 0.0147 Black soft shale slightly	RL21028	Soil	5.72	15.21	0.0092	0.0148							Medium grey, pebbly
RL21030 Rock 4.55 7.36 0.0069 0.0121 Black shale, slightly foliated BL21031 Bock 7.74 15.38 0.005 0.0147 Black soft shale slightly	RL21029	Soil	6.13	17.61	0.0077	0.0138				1			Dark grey, rocky
RI 21031 Rock 7 74 15 38 0.005 0.0147	RL21030	Rock	4.55	7.36	0.0069	0.0121							Black shale, slightly foliated
	RL21031	Rock	7.74	15.38	0.005	0.0147							Black, soft shale. slightly
foliated													foliated

Sample	Туре	10U Easting	10U Northing
RL21005	soil	489902	6099023
RL21006	soil	489890	6098998
RL21007	soil	489875	6098975
RL21008	soil	489862	6098954
RL21009	soil	489852	6098922
RL21010	soil	489836	6098904
RL21011	soil	489819	6098887
RL21012	rock	489830	6098928
RL21013	rock	489833	6098944
RL21014	rock	489834	6098953
RL21015	rock	489832	6098954
RL21016	rock	489847	6098971
RL21017	rock	489856	6098977
RL21018	rock	489857	6098983
RL21019	rock	489880	6098983
RL21020	rock	489891	6099041
RL21021	rock	489895	6099057
RL21022	rock	489912	6099092
RL21023	rock	489914	6099127
RL21024	soil	489809	6098780
RL21025	soil	489800	6098792
RL21026	soil	489789	6098794
RL21027	soil	489780	6098801
RL21028	soil	489772	6098738
RL21029	soil	489779	6098717
RL21030	float rock, subcrop	489782	6098705
RL21031	float rock, subcrop	489775	6098686

Sample Locations

APPENDIX IV

XRF RESULTS

DECEMBER 20, 2021

	All Re	sults in %	6													
Sample #	Mg	Mg +/-	Al	Al +/-	Si	Si +/-	Р	P +/-	S	S +/-	Cl	Cl +/-	К	K +/-	Са	Ca +/-
RL21005	ND		4.62	0.07	12.22	0.1	0.7656	0.0201	0.034	0.0024	ND		1.6078	0.0128	1.9448	0.0155
RL21006	0.8	0.26	5.38	0.08	14.1	0.11	0.4266	0.0184	0.0143	0.0025	ND		2.4295	0.0197	0.9344	0.0092
RL21007	ND		4.10	0.07	11.59	0.1	0.5321	0.0199	0.0098	0.0026	ND		1.7909	0.0155	1.1678	0.011
RL21008	ND		4.12	0.07	12.27	0.1	0.6924	0.0212	0.0315	0.0027	ND		1.967	0.0166	1.365	0.0124
RL21009	0.95	0.26	3.79	0.07	10.12	0.08	1.1539	0.023	0.0907	0.0027	ND		1.6035	0.0132	1.3244	0.0115
RL21010	2.41	0.29	4.37	0.07	10.74	0.1	1.0678	0.0234	ND		ND		0.9432	0.009	0.3172	0.0048
RL21011	ND		3.50	0.06	15.95	0.11	0.6025	0.0186	0.0106	0.0023	ND		0.7203	0.0062	0.6016	0.0059
RL21012	1.14	0.35	6.21	0.09	13.66	0.12	0.296	0.0213	ND		ND		2.9661	0.0253	4.1008	0.0349
RL21013	ND		2.99	0.06	5.8117	0.0465	0.6122	0.0242	0.1001	0.0026	ND		1.1914	0.0089	25.06	0.17
RL21014	1.52	0.36	6.78	0.1	17.3	0.15	0.336	0.0217	ND		ND		3.9878	0.0331	0.2432	0.0068
RL21015	ND		0.66	0.06	2.3539	0.03	0.754	0.032	0.1984	0.0039	ND		0.3733	0.0047	39.11	0.34
RL21016	ND		4.15	0.11	11.46	0.13	0.4141	0.0308	ND		ND		4.71	0.05	2.8356	0.0325
RL21017	ND		3.93	0.08	16.91	0.13	0.2195	0.0218	ND		ND		3.3066	0.026	4.0787	0.0322
RL21018	ND		4.20	0.07	9.36	0.08	0.811	0.026	0.1262	0.0031	ND		3.232	0.0243	15.72	0.11
RL21019	1.29	0.28	6.19	0.08	12.44	0.09	0.1639	0.0184	ND		ND		3.9801	0.029	7.38	0.05
RL21020	ND		4.02	0.09	11.38	0.11	0.2873	0.0263	ND		ND		2.7535	0.0258	8.58	0.08
RL21021	1.54	0.27	5.53	0.08	12.89	0.1	0.4439	0.0221	ND		ND		3.076	0.023	10.97	0.08
RL21022	2.33	0.44	4.26	0.09	12.02	0.13	0.3643	0.0241	ND		ND		3.2932	0.0339	2.0994	0.0227
RL21023	1.74	0.31	4.13	0.07	11.46	0.09	0.2215	0.0233	ND		ND		2.3755	0.019	16.19	0.12
RL21024	ND		6.92	0.08	14.22	0.1	1.0758	0.0224	0.0478	0.0026	ND		2.2886	0.0161	0.2553	0.0051
RL21025	ND		7.43	0.08	14.56	0.1	0.7837	0.0195	ND		ND		1.9509	0.0136	0.1388	0.0045
RL21026	ND		5.33	0.09	10.65	0.1	0.4912	0.0205	0.0116	0.0029	ND		1.5518	0.014	0.4119	0.0059
RL21027	1.86	0.54	1.76	0.07	8.23	0.11	0.5393	0.0278	0.0594	0.0042	ND		0.6776	0.0095	1.7072	0.0212
RL21028	ND		5.72	0.07	15.21	0.11	1.1836	0.0231	ND		ND		1.1754	0.0089	0.7382	0.0069
RL21029	ND		6.13	0.07	17.61	0.12	0.8897	0.022	ND		ND		1.7103	0.0122	0.4811	0.006
RL21030	1.62	0.39	4.55	0.09	7.36	0.08	1.1948	0.027	0.2585	0.0046	ND		1.7486	0.0177	0.1292	0.0043
RL21031	ND		7.74	0.1	15.38	0.11	1.1039	0.0265	ND		ND		3.8392	0.0277	0.3297	0.0067

Ti	Ti +/-	V	V +/-	Cr	Cr +/-	Mn	Mn +/-	Fe	Fe +/-	Со	Co +/-	Ni	Ni +/-	Cu	Cu +/-	Zn	Zn +/-
0.4054	0.018	0.0421	0.0069	0.0171	0.0033	0.5663	0.0103	10.6	0.08	ND		0.0064	0.0012	0.0143	0.0012	0.0159	0.0009
0.6026	0.0222	0.0504	0.008	0.0212	0.0037	0.2538	0.0073	8.36	0.07	ND		0.0073	0.0012	0.0113	0.0011	0.0112	0.0008
0.5449	0.0219	0.0521	0.0082	0.0197	0.0038	0.2096	0.0069	8.2	0.07	ND		0.0068	0.0013	0.0102	0.0012	0.0121	0.0009
0.4398	0.0199	0.0546	0.0078	0.0117	0.0035	0.4208	0.0095	8.5	0.07	ND		ND		0.0042	0.0009	0.0156	0.0009
0.386	0.0178	0.0375	0.0068	ND		0.5545	0.0102	5.78	0.05	ND		0.0054	0.001	0.0079	0.0009	0.0256	0.001
0.5857	0.0208	0.0443	0.0074	ND		0.148	0.0056	9.5	0.09	ND		0.006	0.0012	ND		0.0237	0.0011
0.2746	0.016	0.0308	0.0065	0.0606	0.0042	0.0676	0.004	5.6966	0.045	ND		0.0539	0.002	0.0042	0.0009	0.0112	0.0007
0.6041	0.0249	0.0895	0.0099	ND		0.043	0.0042	8.53	0.08	ND		0.0052	0.0012	0.0085	0.0011	0.0118	0.0009
1.0612	0.0317	0.0912	0.0113	0.044	0.0052	0.063	0.0048	6.33	0.05	ND		0.0068	0.0011	0.0125	0.0011	0.011	0.0008
0.6422	0.0264	0.0556	0.0096	0.0155	0.0042	0.0229	0.0037	6.91	0.06	ND		0.0054	0.0012	0.0075	0.0011	0.0118	0.0009
0.1077	0.0234	ND		ND		0.1811	0.0093	2.0614	0.0306	ND		ND		ND		ND	
0.6405	0.0344	0.0902	0.0137	ND		0.0418	0.0057	7.47	0.09	ND		0.0077	0.0018	0.0853	0.0036	0.0148	0.0014
0.359	0.0222	0.0323	0.0087	ND		0.1048	0.0057	6.33	0.06	ND		0.0046	0.0012	0.0141	0.0013	0.0058	0.0007
0.8673	0.0305	0.096	0.0115	0.0206	0.0048	0.1077	0.0059	7.07	0.06	ND		0.0045	0.0012	0.0051	0.001	0.0093	0.0008
1.2435	0.0308	0.081	0.0101	0.0363	0.0045	0.1424	0.0061	11.98	0.09	ND		0.0113	0.0014	0.0036	0.001	0.014	0.0009
0.4788	0.028	0.0563	0.0112	0.016	0.0051	0.1112	0.0068	6.62	0.07	ND		0.0086	0.0016	0.0058	0.0012	0.0087	0.0009
0.559	0.0242	0.0753	0.0096	0.0143	0.0041	0.0794	0.005	8.29	0.07	ND		0.0055	0.0012	0.0038	0.0009	0.0102	0.0008
0.629	0.0282	0.0672	0.0105	ND		0.0585	0.0051	8.45	0.09	ND		ND		0.0048	0.0012	0.0111	0.001
0.3707	0.0231	0.0674	0.01	0.0148	0.0045	0.0891	0.0055	5.67	0.05	ND		0.0047	0.0011	0.0081	0.001	0.0069	0.0007
0.6288	0.022	0.0599	0.0082	0.0149	0.0035	0.0519	0.0038	5.4838	0.0434	ND		0.0052	0.001	0.004	0.0008	0.0274	0.001
0.5746	0.0206	0.0732	0.008	0.0164	0.0034	0.085	0.0043	6.066	0.0461	ND		0.0128	0.0012	0.0065	0.0009	0.0316	0.0011
0.5721	0.0231	0.037	0.0082	0.0363	0.0043	0.0818	0.0049	6.56	0.06	ND		0.0536	0.0024	0.0089	0.0012	0.0218	0.0011
0.399	0.0247	ND		ND		0.1111	0.0065	5.06	0.07	ND		0.0088	0.0015	0.0084	0.0013	0.0129	0.001
0.3346	0.0172	0.0399	0.0069	0.0148	0.0032	0.0433	0.0035	6.1592	0.0473	ND		0.0092	0.0011	0.0076	0.0009	0.02	0.0009
0.57	0.0217	0.0392	0.0078	0.0138	0.0034	0.0496	0.0037	5.1051	0.0405	ND		0.0077	0.001	0.0071	0.0009	0.0289	0.0011
0.7034	0.0242	0.0516	0.0083	0.0121	0.0036	0.0264	0.0036	8.93	0.09	ND		0.0069	0.0013	0.0224	0.0015	0.0433	0.0016
0.7705	0.0281	0.0841	0.0106	0.0147	0.0043	0.035	0.0039	4.0742	0.0374	ND		0.005	0.0011	ND		0.016	0.0009

As	As +/-	Se	Se +/-	Rb	Rb +/-	Sr	Sr +/-	Y	Y +/-	Zr	Zr +/-	Мо	Mo +/-	Ag	Ag +/-	Cd	Cd +/-	Sn
0.0009	0.0003	ND		0.0061	0.0003	0.0077	0.0003	0.0041	0.0002	0.0061	0.0003	ND		ND		ND		ND
ND		ND		0.0076	0.0003	0.0046	0.0002	0.0023	0.0002	0.0078	0.0003	ND		ND		ND		ND
0.0011	0.0003	ND		0.0081	0.0003	0.0059	0.0002	0.0019	0.0002	0.0088	0.0003	0.0008	0.0002	ND		ND		ND
ND		ND		0.0086	0.0003	0.0107	0.0003	0.0012	0.0002	0.0059	0.0003	0.0007	0.0002	ND		ND		ND
ND		ND		0.0069	0.0002	0.0053	0.0002	0.0011	0.0002	0.0061	0.0002	ND		ND		ND		ND
ND		ND		0.0059	0.0003	0.0035	0.0002	0.0021	0.0002	0.0086	0.0003	ND		ND		ND		ND
0.0026	0.0003	ND		0.0045	0.0002	0.0118	0.0003	0.0019	0.0002	0.0136	0.0003	ND		ND		ND		ND
ND		ND		0.0047	0.0002	0.0016	0.0002	0.0008	0.0002	0.0055	0.0003	0.0011	0.0002	ND		ND		ND
ND		ND		0.0039	0.0002	0.0291	0.0005	0.0015	0.0002	0.0106	0.0003	ND		ND		ND		ND
ND		ND		0.0033	0.0002	0.0022	0.0002	0.0022	0.0002	0.0042	0.0003	0.0008	0.0002	ND		ND		ND
ND		ND		ND		0.0929	0.0013	0.0017	0.0002	ND		0.0008	0.0003	ND		ND		ND
ND		ND		0.006	0.0004	0.0035	0.0003	0.0026	0.0003	0.0047	0.0004	0.0023	0.0003	ND		ND		ND
ND		ND		0.0036	0.0002	0.0039	0.0002	0.0016	0.0002	0.0052	0.0003	0.0013	0.0002	ND		ND		ND
ND		ND		0.0033	0.0002	0.0669	0.0009	0.0015	0.0002	0.0028	0.0004	ND		ND		ND		ND
0.0017	0.0003	ND		0.004	0.0002	0.0157	0.0004	0.0011	0.0002	0.0046	0.0003	0.0008	0.0002	ND		ND		ND
ND		ND		0.0052	0.0003	0.0205	0.0005	0.0024	0.0003	0.0049	0.0004	0.0017	0.0003	ND		ND		ND
ND		ND		0.0053	0.0002	0.0084	0.0003	0.0036	0.0002	0.0039	0.0003	0.0007	0.0002	ND		ND		ND
ND		ND		0.0075	0.0003	0.0024	0.0002	0.0058	0.0003	0.0055	0.0003	0.0013	0.0003	ND		ND		ND
ND		ND		0.0045	0.0002	0.0158	0.0004	0.0011	0.0002	0.0026	0.0003	0.0008	0.0002	ND		ND		ND
0.0019	0.0003	ND		0.0182	0.0004	0.0066	0.0002	0.0039	0.0002	0.021	0.0004	ND		ND		ND		ND
0.0019	0.0003	ND		0.0133	0.0003	0.0052	0.0002	0.0035	0.0002	0.0181	0.0003	0.0007	0.0002	ND		ND		ND
0.0028	0.0004	ND		0.0099	0.0003	0.0051	0.0002	0.0025	0.0002	0.0163	0.0004	0.0015	0.0002	ND		ND		ND
0.0027	0.0004	ND		0.006	0.0003	0.0123	0.0004	0.0028	0.0003	0.0165	0.0005	0.0018	0.0003	ND		ND		ND
0.0028	0.0003	ND		0.0086	0.0003	0.0117	0.0003	0.0019	0.0002	0.0126	0.0003	ND		ND		ND		ND
0.0012	0.0003	ND		0.0112	0.0003	0.0073	0.0002	0.0026	0.0002	0.0198	0.0004	ND		ND		ND		ND
0.0055	0.0006	0.0009	0.0002	0.0124	0.0004	0.0036	0.0002	0.0055	0.0003	0.0243	0.0005	0.004	0.0003	ND		ND		ND
0.001	0.0003	ND		0.0139	0.0003	0.0059	0.0002	0.0021	0.0002	0.0184	0.0004	0.0012	0.0002	ND		ND		ND

Sn +/-	Sb	Sb +/-	W	W +/-	Hg	Hg +/-	Pb	Pb +/-	Bi	Bi +/-	Th	Th +/-	U	U +/-	LE	LE +/-
	ND		ND		ND		ND		ND		ND		ND		67.11	0.24
	ND		ND		ND		ND		ND		ND		ND		66.57	0.3
	ND		ND		ND		ND		ND		ND		ND		71.73	0.23
	ND		ND		ND		ND		ND		ND		ND		70.08	0.24
	ND		ND		ND		0.0018	0.0003	ND		ND		ND		74.15	0.27
	ND		ND		ND		ND		ND		ND		ND		69.83	0.32
	ND		ND		ND		0.0013	0.0003	ND		ND		ND		72.38	0.19
	ND		ND		ND		ND		ND		ND		ND		62.32	0.35
	ND		ND		ND		0.0012	0.0004	ND		ND		ND		56.57	0.24
	ND		ND		ND		ND		ND		ND		ND		62.16	0.36
	ND		ND		ND		ND		ND		ND		ND		54.11	0.3
	ND		ND		ND		0.0019	0.0006	ND		0.0047	0.0011	ND		68.05	0.34
	ND		ND		ND		ND		ND		ND		ND		64.69	0.26
	ND		ND		ND		ND		ND		0.0027	0.0008	ND		58.29	0.27
	ND		ND		ND		ND		ND		ND		0.0014	0.0004	55.02	0.32
	ND		ND		ND		0.0018	0.0005	ND		0.0035	0.0009	ND		65.63	0.29
	ND		ND		ND		ND		ND		ND		ND		56.5	0.32
	ND		ND		ND		ND		ND		ND		ND		66.39	0.43
	ND		ND		ND		ND		ND		ND		ND		57.63	0.33
	ND		ND		ND		0.0023	0.0004	ND		ND		ND		68.86	0.21
	ND		ND		ND		0.0025	0.0004	ND		ND		ND		68.22	0.21
	ND		ND		ND		0.0019	0.0004	ND		0.0027	0.0008	ND		74.15	0.22
	ND		ND		ND		0.0017	0.0005	ND		0.0072	0.001	ND		79.51	0.49
	ND		ND		ND		0.0023	0.0004	ND		ND		ND		69.3	0.2
	ND		ND		ND		0.0023	0.0004	ND		ND		ND		67.31	0.21
	ND		ND		ND		0.0127	0.0008	ND		0.0038	0.0008	ND		73.28	0.38
	ND		ND		ND		ND		ND		0.0027	0.0007	ND		66.56	0.23