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Mining & Minerals Division
BC Geological Survey



Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geochemistry, Geological Mapping, Gravity Survey TOTAL COST: \$34,489.45

AUTHOR(S): Paul Ransom, Edward Sanders

SIGNATURE(S): *E. Ted Sanders P. Ransom*

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): 5853734 (2021/DEC/03)

YEAR OF WORK: 2020-2021

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):

PROPERTY NAME: Pakk (Roar)

CLAIM NAME(S) (on which the work was done): 1052363, 1055795, 1055865, 1062227, 1069925, 1072425, 1072426, 1074009

COMMODITIES SOUGHT: Base and Precious Metals

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Ft. Steele

NTS/BCGS: 082F09/082F059

LATITUDE: 49° 34' 42" LONGITUDE: 116° 17' 47" (at centre of work)

OWNER(S):

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

Aldridge, Sullivan Horizon, LMC, Quartzite, Pyrrhotite, Mafic, Pathfinder Elements, Chloritic Schist

SEDEX, Siliciclastic turbidite sequence, Chalcopyrite, Mafic diatreme, Muscovite, Biotite, Chlorite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 4235, 12825, 23622, 26693, 27916,

28424, 32911, 35575, 36666, 37220, 37937, 37952

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Sinclair - Golden Larch 2021 Assessment Report, February, 2022

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		1055795,1062227, 1069925,1072425	\$14,949.32
Photo interpretation		1052363,1055865	
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic Gravity (GPS) Survey (36 stations)		1055795,1062227,1069925,1072425-6	\$13,527.13
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	12	1055795	\$1,414.67
Silt			
Rock	6	1055795	\$1,173.33
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)/trail			
Trench (metres)			
Underground dev. (metres)			
Other	Report Writing		\$3,425.00
TOTAL COST:			\$34,489.45

ASSESSMENT REPORT

February, 2022

**GEOLOGICAL MAPPING, SOIL GEOCHEMISTRY,
AND GRAVITY SURVEY
(2020-2021)**

SINCLAIR - GOLDEN LARCH CLAIMS

**(Tenures 1052363, 1055795, 1055865, 1062227,
1069925, 1072425, 1072426, 1074009)**

ST. MARY RIVER REGION (N.T.S. 082F09)

EAST KOOTENAY – PURCELL RANGE

FORT STEELE MINING DIVISION

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Report by: P. Ransom and E. Sanders

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Introduction

Due to the forfeit date extension granted by MTO in March 2019, this report covers two seasons of technical work for assessment on the Sinclair and Golden Larch claims. The report includes reviews of previous geological mapping, geochemistry, and geophysics incorporated with the recent work done in each of those categories.

Location and Access

The Sinclair-Golden Larch property is located 25 km WSW of Kimberley, BC. The location map below (Figure 1) shows local communities, Kimberley, and Cranbrook. Roads and access to the Sinclair and Golden Larch Claims are described below.

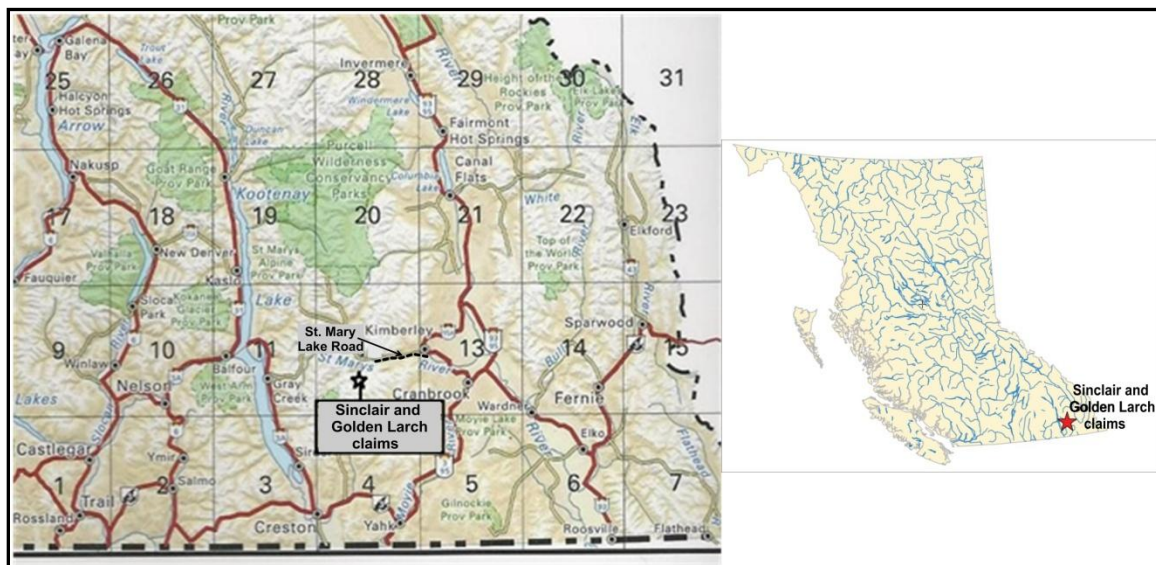


Figure 1 Location Map

Directions to the property follow:

1. Take St. Mary road 10 km west from Kimberley (starts immediately north of Marysville suburb).
2. Cross St. Mary River at east end of St. Mary Lake.
3. Proceed to Hellroaring Creek FSR, second junction to the right after crossing St. Mary River bridge.
4. At 1 km on Hellroaring FSR take junction west, the Meachen FSR.
5. The east part of the Sinclair-Golden Larch claims is accessed by a road to the south along Sinclair Creek, 700 m past the 34 km marker. FSRs provide access southwest to about 38 km on Meachen Creek FSR and south along Fiddler Creek.
6. Hazard FSR branches to the north at the 35 km Marker on Meachen FSR and provides bridge access to portions of the claims north of Meachen Creek.

Claims

The Sinclair and Golden Larch claims are highlighted in green on the MTO mineral claim map Figure 2. Tenure numbers are annotated at the centroids of the respective claims. The claim listing is shown in the Statement of Work and the MTO Exploration and Development page for event 5853734 (Appendix 1).

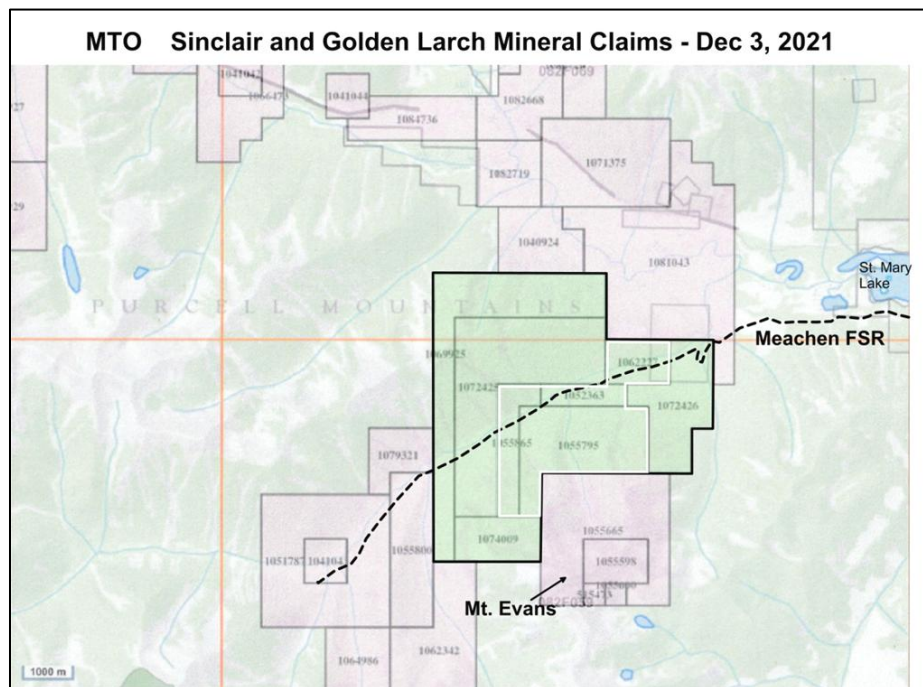


Figure 2 Mineral Claims Map

Regional Geology

A regional geology map is shown in Figure 3 below that is part of a 1:250,000 compilation map (Hoy, T., Price, R., Legun, A., et al., 1995). Rocks of the Mesoproterozoic Purcell Supergroup form a conformable sequence that dominates this part of southeastern BC. Lowest rocks of the Purcell Supergroup include the Fort Steele and Aldridge Formations. The Fort Steele Fm. is only exposed east of the Rocky Mountain Trench in the Hughes Range (i.e. north of the St Mary - Boulder Creek Fault). A transitional sequence assigned to the Aldridge Fm. rests conformably between Fort Steele and regional style Aldridge strata there. The Fort Steele Formation accumulated as quartz sands and siliciclastic muds deposited in sub aerial to shallow water fluvial to deltaic environments (Hoy, 1993). The transitional sequence represents a transgressive period of increasing water depth as rift development advanced and the interpreted depositional environment changed from shelf to basinal. In the Purcell Mountains the Aldridge Formation is over 5 kilometres thick of deep-water siliciclastic sediments primarily of turbidite origin (Bishop et al., 1970). The lower section of Aldridge in the Purcells is reasonably assumed time equivalent to the Fort Steele plus the lower portion of the overlying transitional sequence of Aldridge sediments. Seismic studies suggest the Aldridge Formation in the Purcells is about 12 kilometres below (Middle Aldridge) surface in the Moyie area, about 25 kilometres SE of Mt Evans (Cook et al., 1995).

A very significant rock of non-turbidite origin occurs throughout the Aldridge Formation called Carbonaceous Wacke Laminite (CWL). A few centimetres of CWL is commonly found between every turbidite in some sequences; in other sequences where not present between turbidites, CWL is assumed to have either been eroded or that turbidite deposition was so rapid it did not have time to accumulate. When or where turbidite input was low or restricted, a few centimetres to up to tens of metres of CWL dominant strata accumulated. For example, the top of the Lower Aldridge Formation in the Kimberley area is a 20 metre interval of CWL. In the immediate mine area this 20 metres of CWL bifurcates around and interfingers with the 200 metres of sulphide and unique sedimentary rocks intimately associated with the Sullivan orebody (Ransom et al., 2000).

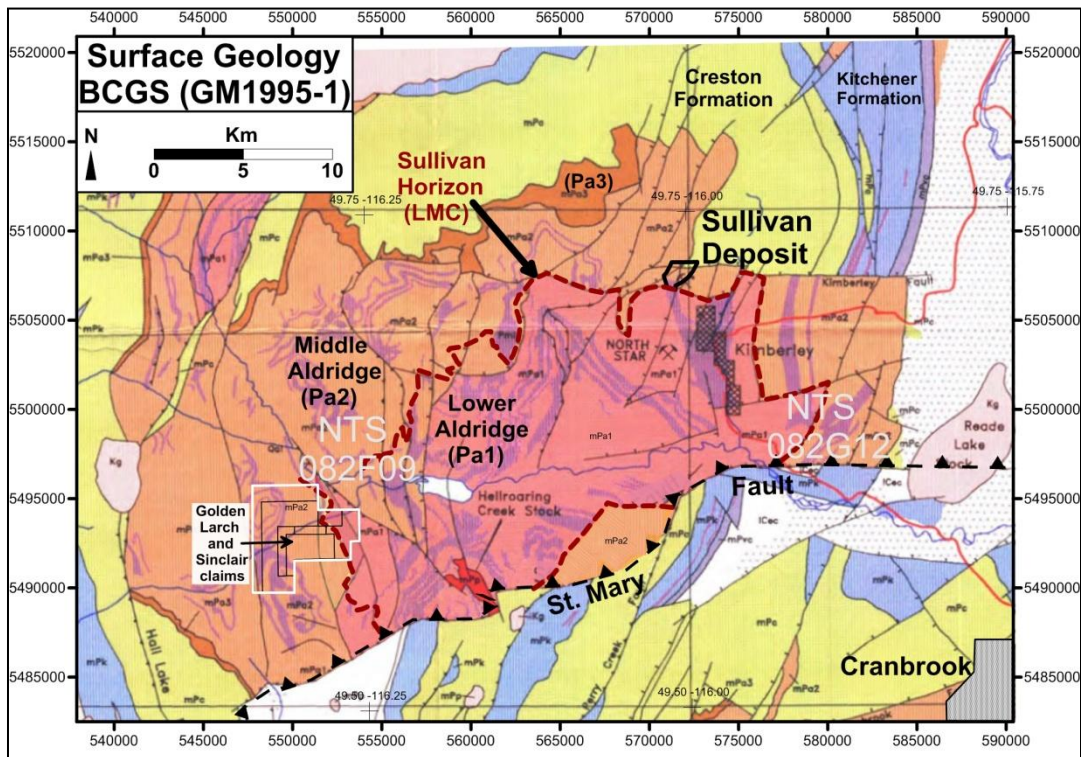


Figure 3 Regional geology showing claims location.

A further significant variant of CWL is light and dark grey bar-code-like laminated intervals. Units of these laminites form markers that provide precise stratigraphic control of the 1500 to 2000 metre stratigraphic interval above the Sullivan ore horizon. Individual markers from 10 cm to 10 metres thick were named by Cominco geologists. Aldridge markers have been correlated from field locations as much as 300 kilometres apart. Marker and turbidite sequences bifurcate, and detailed study aids understanding of basin sedimentology, mapping and can be used to place limits on fault displacement. These markers are important for exploration planning as they provide an estimate of depth to the Sullivan ore horizon, one of the prime exploration model targets. This information is used to guide geophysics planning and interpretation and well as planning and monitoring progress of drill holes. Core intersections of all Cominco marker standards are archived at the GSC ISPG repository in Calgary.

Above the Aldridge is the Creston Formation, deposited as muds, silts and sands in a shallow aqueous to emergent environment, parts of which have been interpreted as shallow marine to lacustrine and other parts as alluvial fans.

Mesoproterozoic tabular gabbro sills and dikes known as “Moyie Sills” or “Moyie Intrusions” intrude Aldridge (and rarely Creston) strata and are only slightly younger than the rocks they intrude.

Kitchener Formation strata succeed the Creston Formation are carbonate-rich silts and muds deposited in a shallow marine environment. Above the Kitchener Formation is the Van Creek Formation (included in or with the Kitchener as Siyeh in early studies) dominated by siltstones that accumulated in a shallow water environment and was followed by the Nicol Creek Formation, a thin but very widespread flood basalt lava and associated volcanoclastic sediments. Sub-volcanic sills to Nicol Creek Fm lavas are common in the Kitchener Formation.

The Nicol Creek volcanics mark the top of the lower Purcell Supergroup. Approximate age of deposition of the Lower Purcell Supergroup is constrained from before the 1475 Ma age of the Sullivan orebody at the top of the Lower Aldridge Formation (Slack et al., 2020) and extrusion of the Nicol Creek Formation lavas at 1443 MA (Evans et al., 2000).

The upper Purcell Supergroup comprises Dutch Creek and Mount Nelson Formations in the Purcell Mountains, and stratigraphic equivalents in the Rockies, and consist primarily of units that were deposited as sands, silts, muds and carbonates in a mud flat-shoreline and adjacent basinal environments.

The Purcell supergroup was folded, metamorphosed and the Lower Aldridge Formation was intruded by granite during the East Kootenay orogeny that lasted from 1360 to 1330 (McMechan et al., 1982; Lydon, 2000; Pattison et al, 2013, McFarlane 2015).

The Windermere Supergroup deposited on an unconformity from 900 to 800 MA following the Goat River orogeny (McMechan et al., 1982). In turn subsequent uplift and erosion resulted in an unconformity upon which lower Paleozoic sediments were deposited, the Lower Cambrian Cranbrook Formation conglomerates and sandstones and upper Lower Cambrian Eager Formation argillite, siltstone and carbonate.

Sedimentation and erosion cycles continued through the Phanerozoic. Late Mesozoic to early Cenozoic compression produced large fold structures in the Purcell and Rocky Mountains. Syenite to monzonite plugs and stocks of Cretaceous age intruded along and locked some of the longer-lived faults. Peripheral to these intrusions are coeval and possibly younger minor thin syenite sills and dikes. Mid Cenozoic extension resulted in tilting (Bally et. al. 1966) and rotation (Ransom et. al. 2017) of large fault blocks and development of several narrow basins at the north end of the Basin and Range Province. The major Rocky Mountain Trench is one of these basins and numerous fault blocks display "basin and range" topography locally. Alluvial deposition continues to this day.

Extensive research spearheaded by the Geological Survey of Canada in the 1990s on Sullivan, regional geology and many mineral occurrences in Aldridge strata was published over 20 years ago (Lydon 2000).

Local Geology

The most recent published 1:50,000 scale geology map of sheet 82F/09 is GSC Open File 6308 (Brown, et al., 2011) that overlaps BC Geological Survey map (Hoy, et al., 2004). This map shows most marker localities that had been identified by Cominco field crews. The Sullivan ore body and the Stemwinder and North Star massive sulphide deposits are significant mineral occurrences on this map, 25 kilometres northeast of Sinclair - Golden Larch claims. Rocks on the Sinclair - Golden Larch claims are entirely Lower and Middle Aldridge Formation strata and gabbro intrusions. Maps at 1:10000 (Appendix 3) and 1:5,000 (Appendix 4) scales are compilations primarily of earlier GSC and Cominco work, and Black Bull (Anderson et. al. 1999) mapping and new work by author P.W. Ransom for the claims. These maps show some notable differences from the GSC map which will be discussed in this report.

History

The Sinclair - Golden Larch claims flank west, south and north portions of Mt. Evans. Several adits were driven on copper sulphide in quartz veins in gabbro SW of Mt. Evans, last extensively explored in 1972 (Lenard) and 1984 (Margrum and Crowe). Cominco carried out regional mapping and ground electromagnetic surveys in the Mt. Evans area during the 1970s to mid 1990s. This work targeted Sullivan Horizon, the stratum that hosts the giant SEDEX Sullivan deposit 25 km to the NE. Cominco drilled several conductors without success. In 2000 Chapleau deepened Cominco hole R95-1, renamed it P00-15, and intersected Sullivan Horizon several hundred metres below the geophysical conductor targeted by Cominco, and below that a substantial thickness of pebble fragmental (Soloviev, 2001). Pebble fragmental is a unique rock similar to the mud volcano complex in the footwall of Sullivan. In 2004 Hastings drilled 1758 metres in P04_01 about 1.7 km southwest of P00-15 with similar results and significant sparse laminations of Pb-Zn-Fe sulphides (Anderson, 2005, Kennedy et al., 2015). E. Sanders (2015) carried out a review of geophysics in the area with a revised interpretation of aeromagnetic surveying that indicates a large-dimensioned anomaly with the characteristics of a buried Sullivan-like deposit in the vicinity of the Sinclair and Golden Larch claims. Ground gravity and magnetic survey data were subsequently acquired (Sanders, 2018, 2019).

Information shared between the authors since has led to some significant changes regarding local geology. One change is that the Sinclair Fault of unknown dip and variable trend on GSC OF 6308 map (Brown et al.,) has not been verified in the field. However, a steep west side down normal fault called Evans Fault has been mapped that trends along Evans Creek and the western edge of the Mag anomaly of interest (AOI). At Meachen FSR the trace of the Sinclair Fault and Evans Fault intersect. The Sinclair Fault shown on the seismic section along Meachen FSR (Cook 2017) (Figure 19) is actually Evans Fault and although it makes little difference to the section, it makes substantial difference when projected on either side. This has a major impact on the geophysical

interpretive maps in AR 37937 and Figures 4, 6, and 7 below reflect these geological revisions.

The East Kootenay Geophysical Survey (GSC and BCGS, 1996) of Magnetics, EM, and Radiometrics covered the St. Mary Area. In AR 35575 (Sanders, 2015) provides a description of how the raw Mag data for a two-kilometre section on a single flight-line of the survey was edited to fix leveling miss-ties. The repair removed a saddle between two small Mag highs resulting in a single larger one. Figure 4 is the edited TMI map; the repaired line is at the south end of the red ellipse outlining the prospective magnetic AOI.

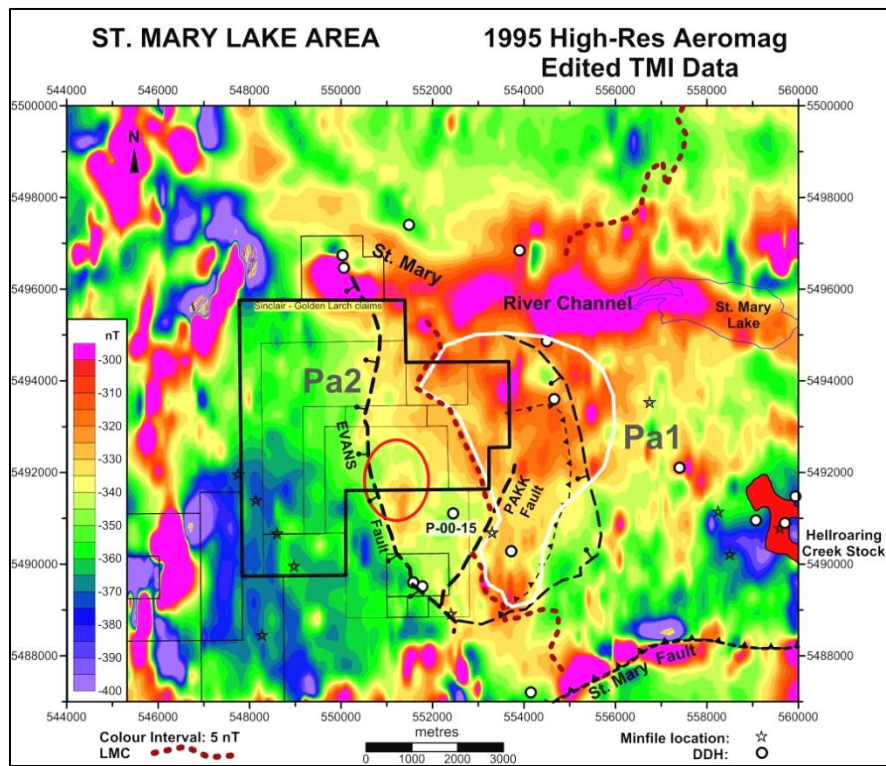


Figure 4 GSC/BCGS 1995 Total Magnetic Intensity map in area of claims.

The Mag AOI indicated by the red ellipse is positioned where modelling would suggest a deep source lies relative to a dipolar anomaly which, unless having remanent magnetism, normally has the high at the south end of the source in the northern hemisphere.

Sedex deposits are known to have lower grade secondary dispersal zones beyond the perimeter of the main economic deposit. The area within the white boundary east of the Mag AOI on Figure 4 highlights a broad anomalous zone in the upper strata of Lower Aldridge rock east of the dashed red LMC (Lower Middle Aldridge Contact, or Sullivan Horizon). The St. Mary valley contains detrital alluvium and till containing magnetite, however Lower Aldridge strata south of the river channel does not. Drilling and geology work note that pyrrhotite is predominant in this area and may be the source of the broad Mag anomaly that fans out up to 5 kilometres from the Mag AOI.

Figure 5a is a portion of a conceptual model by John Lydon from a GSC poster for the Aldridge Formation. The model described ways a buried Sullivan-like deposit might exhibit a geochemical signature in rocks in a rift basin and produce a secondary dispersal zone beyond the ore body. In Figure 5b the image was tilted to represent WSW dipping beds in the Mag AOI, as viewed from the SE, to demonstrate how the two noted anomalies on Figure 4 could occur. The red ellipse on the left represents where the Mag AOI is located in M. Aldridge (Pa2). The red ellipse on the right represents the secondary (low-grade) dispersal zone in L. Aldridge (Pa1) which may be magnetically anomalous despite having lower magnetic susceptibility due to the source's presence near surface.

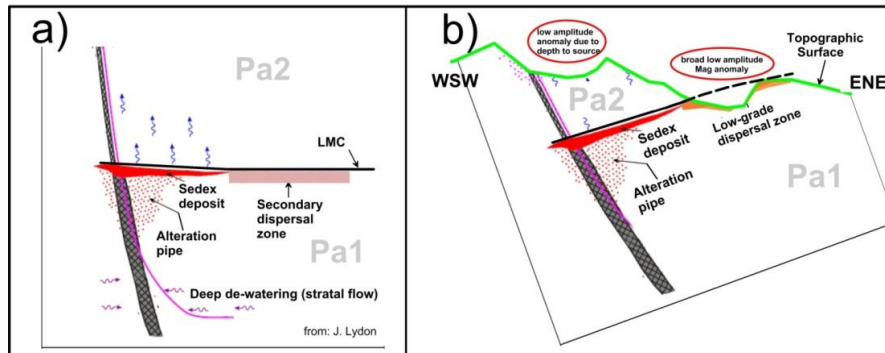


Figure 5 Geological model of Sedex (Sullivan) mineralization.

Pyrrhotite can be both magnetic and conductive. The 5500 Hz frequency EM data (Figure 6) responds to sources having a maximum depth of a few tens of metres. EM data is responsive to water that likely explains the major conductive source along the river valley. A broad EM anomaly in Lower Aldridge strata northeast of the LMC roughly covers most of the area in Lower Aldridge that was anomalous on the TMI map. Much of the area inside the white boundary has both a magnetic and conductive signature similar to what is seen in Lower Aldridge rock immediately south of the Sullivan deposit.

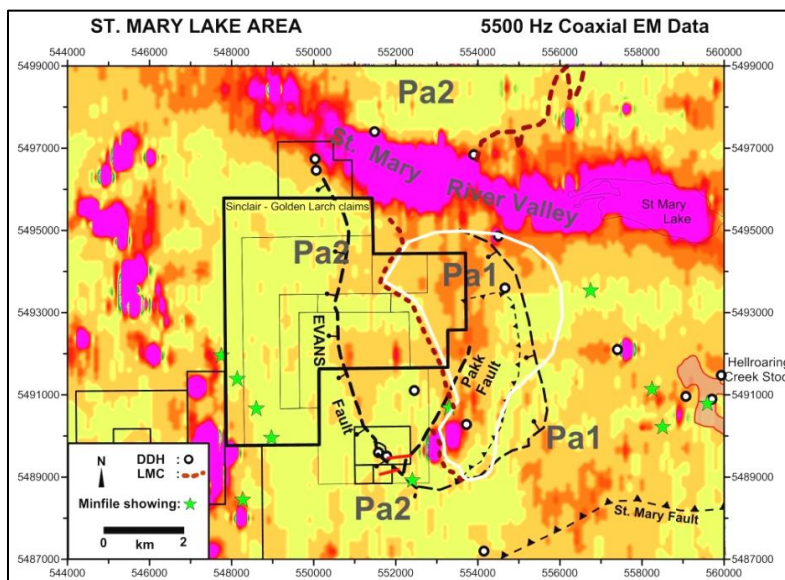


Figure 6 5500 Hz Electromagnetic map in area of claims.

The first geophysical report from near the claims was for a UTEM survey (Jackish, 1994). Several conductive responses were noted (Figure 7). Cominco drilled DDH R95-01 to test a conductor southeast of the present claims. This hole was deepened by Chapleau Resources as Pakk-00-15 (Soloviev, 2001). The revised GSC/BCGS Aeromag 100m TMI grid was filtered (regional-residual separation) to remove long wavelength anomalies having deep sources. The residual grid was then smoothed to remove the shortest wavelength components. These include anomalies from small near-surface sources and signal variations caused by the survey being flown over very rugged terrain. The resulting Residual Mag is shown in this map. The blue line at the north end of the Mag AOI indicates an identified conductive zone described in the UTEM survey report.

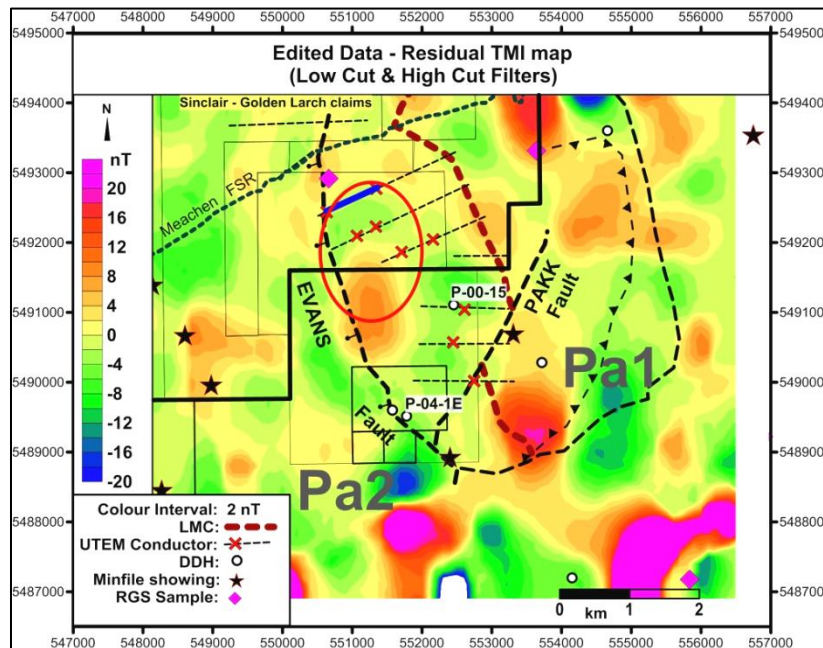


Figure 7 Smoothed Residual Magnetic Anomaly in area of claims.

The Residual Mag anomaly has a N-S range (high to low) of 12-14 nT whereas the TMI map on (unfiltered) Figure 4 would suggest the anomaly has a range of 17-20 nT. Modelling of a Sullivan-sized volume of iron sulphide that produces the 80 nT Aeromag anomaly at Sullivan (~250 metres below the survey sensor) would only produce a 12-15 nT anomaly at 700 metre depth. The 2 kilometre north-south dimension of the anomaly has the character of a large deep iron sulphide source. However, due to the “principal of equivalence” (Reeves, 2005) for potential field data, the anomaly could have a large-dimensioned near-surface source which would also be considered unexplained.

The Mag AOI is located north of Mt. Evans on the eastern side of the north facing cirque and Evans Creek valley. The west side of the Mag anomaly extends to the Evans Fault. This west side down normal fault is likely a factor causing the (green) Mag low west of the Mag AOI. The mountain ridge west of the creek rises rapidly from 300 to 600 metres above the creek and the airborne survey helicopter’s rapid increase in elevation to get over this ridge would also be a factor reducing the Mag signal in this area.

Analysis of the BCGS 1977 RGS (stream sediment geochemistry) database for the St. Mary map NTS 82F09 (Sanders, 35575) reveals that sample 779102 (magenta diamond, Figure 7) on Evans Creek has the highest ranking of Sedex pathfinder elements in the 82 samples in this map area. The 82 samples are primarily from streams draining Aldridge Formation strata. This sample is downstream from the catchment basin hosting the Mag AOI. The table below summarizes values of several elements associated with Sullivan mineralization for sample 779102 compared with median values of the 82 samples in the map sheet. The element percentile rank for 779102 based on all samples is on the right.

	ICP values		779102 percentile rank
	779102	80 sample median	in sample population
Pb (ppm)	30.8	20.3	79
Zn (ppm)	96.7	58.5	82
Cu (ppm)	72.1	23.6	95
Au (ppm)	1.8	1.0	86
Ag (ppm)	207	86.5	91
Fe (%)	2.3	2.0	69
Mn (ppm)	621.0	376.5	82
Sn (ppm)	0.5	0.3	86
Cd (ppm)	0.5	0.2	86
As (ppm)	38.7	12.2	92
Hg (ppb)	72.0	28.5	90
Se (ppm)	2.4	0.3	100
K (%)	0.2	0.1	92
S (%)	0.1	0.03	92

Of the 82 sample population of stream silts from map 82F/09 the combined percentile ranks for ore and pathfinder elements (**Ag, Pb, Zn, Au, Cu, Fe, Sn, As, Cd, K, Hg, Mn, S, Se**) is second highest in sample 779102. The highest ranking sample in this group was acquired on an upper tributary of Pyramid Creek in the valley below several of the Warren-Wolmer Ag, Pb, Zn sulphide veins that were trenched in the early 1900's.

Gravity data for the region is available in the updated Geoscience BC East Kootenay Gravity Database (EKGDB; Sanders, 2013) which contains the 2013 SEEK gravity survey data. In 2017, a gravity survey was conducted on the Meachen Forest Service Road and the processed data was merged with the data from the Geoscience BC file. Details of the 2017 survey, gravity maps, and preliminary interpretation based on the available gravity data is documented in AR 37220 (Sanders, 2018). The 2021 gravity survey has provided additional data to enable a more definitive interpretation for the area of interest and will be described later in the report.

In 2017 two rock samples containing pyrrhotite (AR 37220) were collected in the upper mountain basin near Evans Creek in the vicinity of a small high-amplitude airborne 56KHz (responds only to near-surface sources) EM anomaly. One sample was a Carbonaceous Wacke Laminate as described in Regional Geology and located just west of the centre of the Mag AOI. In 2018 a ground Magnetic survey covering a 300 x 240 metre area was conducted over the small EM anomaly to delineate a precise location for follow-up search for the possible source(s) on the steep forested talus slope here. Twenty soil samples were collected along a one kilometre line below and to the north and preliminary Mag and geochemistry results were described in AR 37937.

Economic Assessment

Unexplained airborne and ground geophysical anomalies located on the southwest flank of the tectonic block hosting one of Earth's largest SEDEX lead-zinc-silver deposits demand explanation. One anomaly is situated on Sinclair and adjacent claims and its source may continue at depth onto Golden Larch claims. Any deposit comparable in nature and size to Sullivan would have a significant impact to the local as well as provincial economy.

New Work

The work being reported on in this report includes new geological mapping, gravity geophysics and a small amount of soil and rock geochemistry on the claims to improve knowledge of local stratigraphy and structure and geophysical coverage in the vicinity of the revised Mag AOI.

Objectives

Objectives of the work were to:

1. Conduct detailed mapping to confirm or modify existing coverage of stratigraphic and structural trends.
2. Collect magnetic susceptibility spot measurements from outcrops and, in one area, from rubble derived from underlying bedrock.
3. Collect rock and soil samples for close inspection and or analysis for signs of mineralization associated with a ground magnetics survey anomaly detailed in 2019.
4. Acquire additional gravity station measurements to improve definition of an apparent bulge of Residual Gravity contours coincident with the Mag AOI noted on page 20 of AR 37220 (Sanders, 2018) and subsequently delineate and quantify a detailed Residual Gravity anomaly of the contour bulge.

Procedure

Geological mapping was carried using helicopter, and by truck on existing FSRs. Traverses were carried out in areas considered important, usually where there was little, insufficient or no information available from previous work. GPS locations were taken at stations where bedding, lithological and magnetic susceptibility observations were made. Outcrop size was noted if small, and GPS coordinates were recorded to provide limits of larger outcrops. Suspected markers were sampled and later sawn for attempts to identify with standard images. Location (from GPS) and structural measurements were copied into a spreadsheet file for subsequent incorporation into a GIS (QGIS was used exclusively). Approximate outcrop outlines were added to a layer in the GIS – these were positioned near respective GPS point or points but are only general in outline. The GIS map was continually updated, and interpretation revisions were made at the same time. Versions of plots at 10,000 and 5000 scales are in Appendices 3 and 4. From three to twenty or thirty magnetic susceptibility readings were taken at selected outcrops and are too densely spaced to plot on maps; the data is stored in a spreadsheet along with Year, Station, Formation, relevant outcrop information (Appendix 6). Stations where magnetic susceptibility measurements were made are at outcrop locations; a map of which is included in the appendix.

Mapping was done in three areas, indicated by yellow ellipses in Appendices 3 and 4. Area 1 was accessed by helicopter at mid elevation on upper Evans Creek Sept 17, 2020. Area 2 was accessed by foot; that west of Evans Creek was done Aug 15, 2020, that along and near Evans Creek above and below the Meachen FSR was done Sept 10, 13, 17 and 25, 2021. Area 3, east of the confluence of Evans Creek northwest of Meachen Creek was accessed from the Hazard FSR system Oct 1 and 8, 2021. Geochemical field work done Sept 17, 2020 consisted of rock and soil sampling in the vicinity of the small airborne EM anomaly (1995) detailed by the 2018 ground magnetic survey. The rocks and soils were collected and analyzed for signs of mineralization.

Results - Mapping

Refer to 10000 and 5000 scale maps in Appendices 3 and 4.

Area 1

Anomalous magnetic susceptibility was noted (station 1095) on a few fracture surfaces coated with dark limonitic material as well as in subcrop rubble exposed below stumps of fallen large trees, there is no other explanation for a small EM anomaly in the 1995 regional airborne survey and the 2018 follow up ground magnetic survey linear anomaly (AR 37937).

Rocks in this area are rust weathering wacke, primarily medium to thin bedded and laminated quartz wacke, wacke, sub wacke and argillite. Metamorphic minerals noted include muscovite, biotite and cordierite. Bedding dips around 45° W. One interesting feature in the northern part of this outcrop area are ripples on a bedding surface area about 2 metres by 5 metres (Figure 8), bedding dips 46-263. Plunge of the ripples is 05-346 and the stoss (shallow) side of these ripples is on the west sides.



Figure 8 Photo of ripple surface in Middle Aldridge Strata UTM 550830, 5492070.

Attention was given to examination of the surficial material along the centre of the 2018 ground magnetic anomaly (AR 37937). Right on the axis of this anomaly one small boulder (40x25x15 cm) of chlorite schist was discovered that contained large lithic fragments including quartzite (Figure 9).



Figure 9 Photo of chloritic schist containing quartzite fragments.

Area 2

West of Evans Creek strata are moderately west dipping. At lower levels, and above the road, along the west side of Evans creek strata dip moderately west. Above a no more than 30 metres thick gabbro, Cominco mappers had identified, are two thin CWL segments that could not be identified but are assumed Hiawatha markers because they are on trend with a Cominco Hiawatha locality near the road. A number of thin laminae in proximity to the gabbro contain metamorphic minerals including cordierite, identified on a cut surface of one specimen using a binocular microscope. Magnetic susceptibilities on this gabbro are between 300 and 500×10^{-6} SI units, similar to measurements on the same gabbro in DDH R95-01 and other gabbro localities visited in this work. At lower elevations, still above the road, and on the east side of Evans creek strata are variable steep to overturned defining a fold over ten to twenty metres (Figure 10).



Figure 10 View to S. Evans Fault W side of falls. Large fold on E UTM 550500;5493220.

At one point the Evans fault plane was noted right in the creek and it separates the domain of the above mentioned fold to the east from a one metre scale fold on the west. The fold plunges at a shallow angle upstream (ie. to the south, not measurable because it is in the creek) (Figure 11).

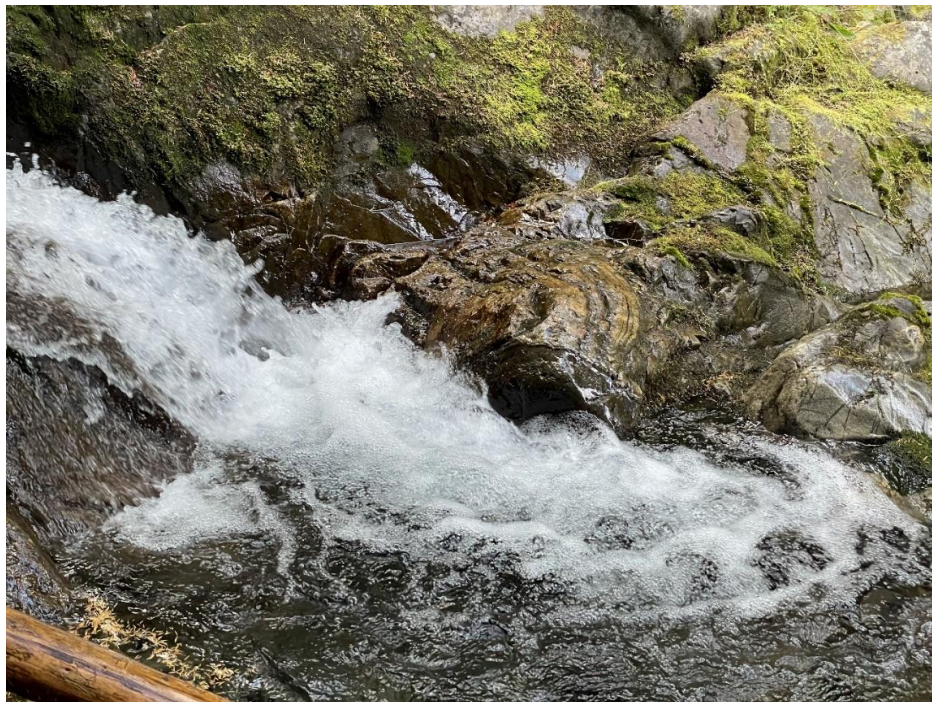


Figure 11 Small S-plunging fold W of Evans Fault at base of falls in previous photo.

Below the Meachen road outcrops continue to define a moderately west dipping panel east of the Evans Fault and creek. In a similar manner to observations above the road, there is a several metre scale fold in which strata dips up to 60° W within a few metres of the creek. Within outcrops about 15 metres east of the creek is a good marker laminite later identified as the Fringe marker. Fringe marker is 210 metres above Sullivan at Sullivan mine.

Area 3

Most outcrops in this area are on the hillside north and above Meachen Creek, however three outcrops on the north bank of the creek were observed from the south side and structural measurements were obtained by positioning the compass in the projection of the bedding plane being measured. All strata have a gentle west dip and most appear to be between two gabbro occurrences assumed to be sills. Three possible marker laminites were located and sampled. Two are less than 10 cm and the third is a 0.5 metre interval from which a 15 cm sample was obtained. None was identified.

Results - Geochemistry

Analytical results of 6 rock samples collected (from five outcrops and one boulder) proximal to the Mag anomaly axis and 12 soil samples collected on the slope below the ground Mag anomaly (detailed in AR 37937) are in reports V21000042.1 and V21000043.1, respectively (Appendix 5). A spreadsheet printout of the 2020 soil data (stripped of lab boiler plate for convenience) plus that obtained in 2018 on 20 soils collected on a line starting in this area and that continued 1 km N (reported in AR 37937) is also included in Appendix 5. Analytical methods are different so only tentative comparisons are possible. A location map of the 6 rock samples, the 12 2020 soil samples, and a listing of the soil and rock sample UTM coordinates is also included in Appendix 5.

Soil sample locations, Pb results, and Zn results are shown on Figure 12 to Figure 14. Results from the new soils are interesting because both Pb and Zn of many exceed rule of thumb thresholds of 25 ppm Pb and 100 ppm Zn for Aldridge soils. Pb values are comparable to soils collected 2018 whereas Zn values are markedly higher.

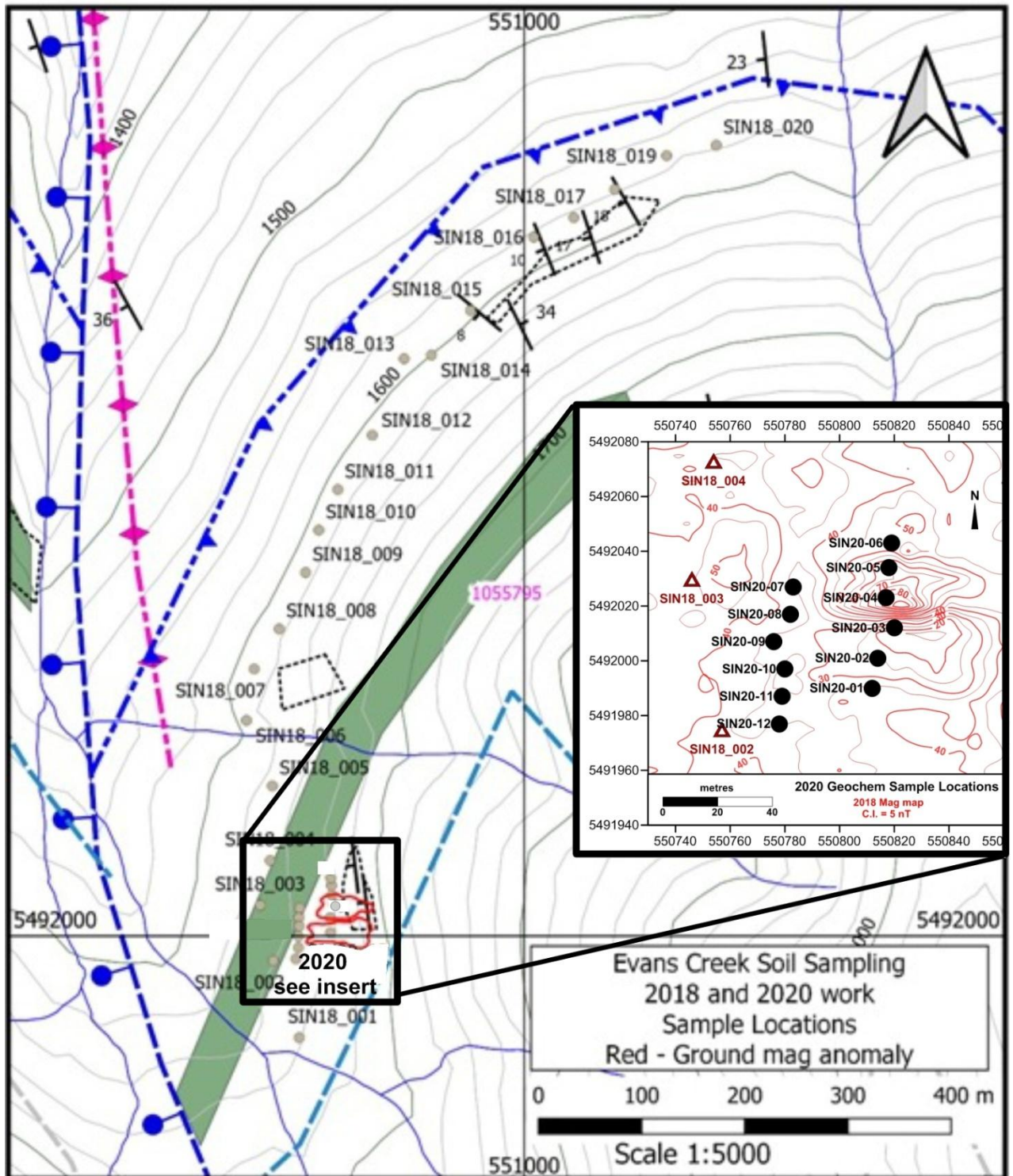


Figure 12 Evans Creek Soil Sample locations

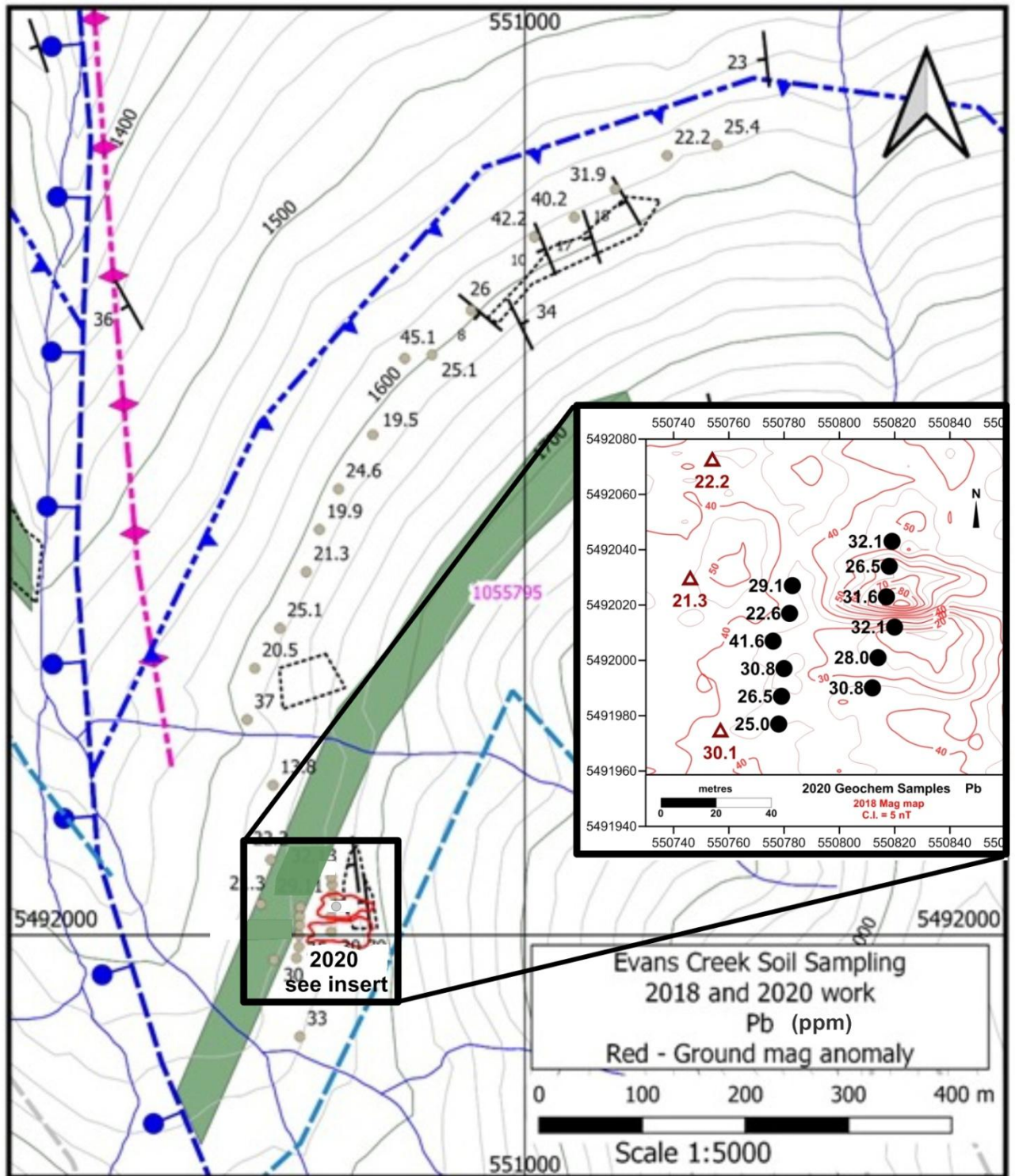


Figure 13 Evans Creek Pb soil geochemistry.

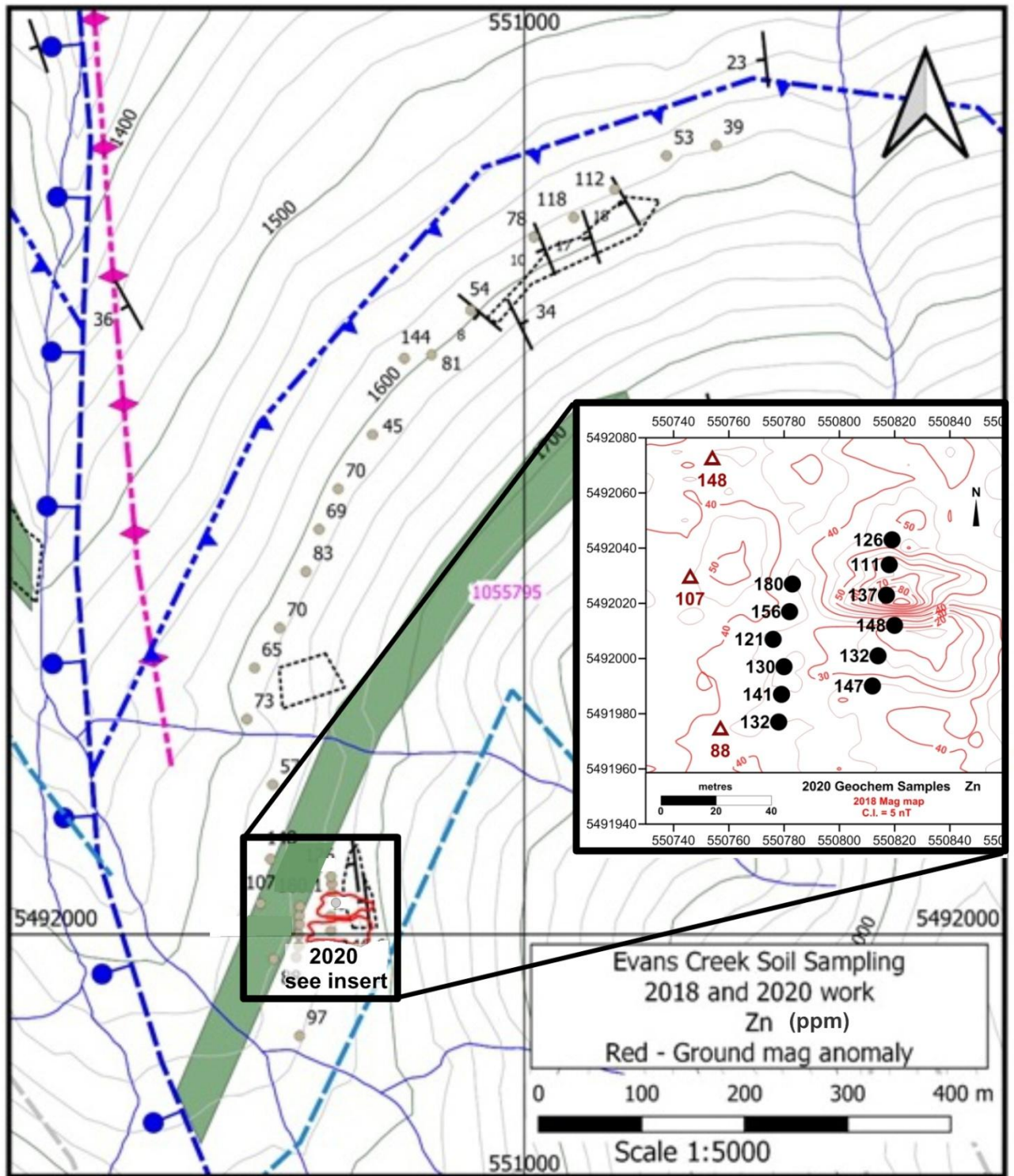


Figure 14 Evans Creek Zn soil geochemistry.

Rock Sample Descriptions

107023 Grey crackled quartz vein, somewhat vuggy, exposed surfaces light rust, collected by EAS.

107024 PWR 100 40 cm boulder, mafic diatreme with lithic clasts, overall green, matrix black biotite in green chlorite groundmass, clasts siliceous.

107025 PWR 108 Metamorphic texture of 80% equant 0.5 to 0.75 mm, possibly cordierite, grains in grey sericite biotite matrix.

107026 Unlabeled Quartz vein, white with considerable red hematite staining, spaced fractures suggestive of fibre layers, rare muscovite.

107027 Grab sample Metamorphosed Wacke, 1 cm bedded, sericitic, with 0.1 to 0.5 mm biotite from sparse to abundant and indicative of some grading. One distinct 5 mm layer composed of 0.5 mm white metamorphic mineral.

107028 Carbonaceous Wacke Laminate, sericite, fine biotite rock. Pyrrhotite constitutes 5% of the specimen, disseminated as very fine grains throughout.

Two of the rock samples stand out:

- Sample 107024 is the chloritic schist boulder that contains fragments of quartzite. Analysis is typical of a basic igneous rock.
- Sample 107025 has anomalous Pb, Bi, Sn and In, constituents of the ore system at Sullivan.

Geophysical Survey (Gravity)

The purpose of the 2021 gravity survey was to acquire additional data to enable a more definitive interpretation of the local gravity field in and beyond the Mag AOI. The gravity and GPS equipment was rented from Excel Geophysics Inc (EGI) of High River, Alberta. The meter operator had worked with Lacoste & Romberg G-meters for over 30 years but had never initiated a Real-Time Kinematic Leica GPS system setup. Two days were spent learning how to set the Leica controller parameters, initialize the base GPS base station and rover, and testing the G-meter before going into the field. The survey was successful acquiring 36 new gravity stations over 4 days of field work in 2021.

Gravity Meter and Base Station

The gravity base station utilized was previously established by Excel Geophysics Inc. It is located on the sidewalk at the north side of the Heritage Inn in Cranbrook and is tied to CGSN base #9025-1980 at the Post Office in Cranbrook.



The Gravity Meter rented from EGI was Lacoste & Romberg G-353. Gravity readings were taken at the Heritage Inn base, pictured above, at the beginning and end of each survey day. A copy of the meter notes and the Observed Gravity and Inner Terrain Correction calculation spreadsheets for the four days are included in Appendix 7.

GPS Equipment and Base Setup



The two Leica GS16 GPS receivers and the CS20 controller and accessories are pictured above in the packing case. The image on the right shows the GPS/RTK base used for the survey in the upper basin on the third day of survey work. The GPS receivers were preset to display positions in UTM coordinates. GPS accuracy tolerance was set to 20 centimetres for the survey and most stations were accurate to < 3 cm. A few gravity stations acquired under thick tree canopy required raising the antenna height using the rover's range-pole and (or) waiting 3-5 minutes to acquire an acceptable coordinate.

Fieldwork Summary

On Sept. 7, 2021 the GPS/RTK base was set up at the location used for the 2017 gravity survey. The UTM coordinate is 552848.0, 5494264.1, 1108.778. The site is located beside a landing, part way up a logged ridge north of Meachen Creek. The plan was to survey the west Sinclair logging road but the SUV couldn't navigate the drainage ditches so the two-man crew proceeded on foot. Gravity stations were acquired at ~300 metre spacing however, when the crew reached the fifth station location they were unable to capture a Real-Time GPS coordinate within spec. The crew returned to their vehicle and drove back to the logging road above, and west of, the GPS base. A repeat reading was done near station 6001 (2017) and two new gravity stations were acquired farther up the road. The uppermost gravity station was on a large, cleared bench at the end of the road. The location was marked to serve as the new GPS base station site for subsequent work. The new GPS base (551827, 5494424, 1262.1) is 150 metres higher than the 2017 base.

Using the new GPS Base, a 4X4 truck was used on Sept. 8 to access the W Sinclair Logging Road and got as far as where the GPS signal could not be obtained the previous

day. The GPS worked well and seven stations were acquired by hiking up the road. The last of these stations was acquired 250m from the highest road station along a flagged trail that trends west across the north-facing slope. Later, five stations were acquired by truck at the west end of the claims; four of these were on the Fiddler Creek FSR.

The third day of surveying (Sept. 10) utilized helicopter access for a crew of three and the survey equipment to the basin on Evans Creek (approximate elevation 1770 m). The helicopter landed about 600 metres south of the helipad used in 2018 and 2020. The GPS Base was set up on lower elevations of the talus slope east of Evans Creek and the first gravity station was recorded a few metres from the GPS base. The second station was recorded after a heli-hop for two to the high southwest corner of the cirque southwest of the Mag AOI. The final heli-hop (150m lower) was to a location south of the Mag AOI. After the helicopter exited and a gravity reading was recorded, the two men acquired additional stations along a northerly hiked traverse. A (repeat) reading was recorded near the 2013 SEEK heli-survey station (at a pond where Evans Creek begins at the surface). The traverse continued north along the talus slope on the east side of Evans Creek. Radio contact was maintained with Paul Ransom who mapped near Meachen FSR that day. Twelve stations were recorded reaching as far north as the ground Mag anomaly located in 2018. All survey gear was packed out to the truck at Meachen FSR.

On the fourth day of surveying (September 25) a two-man crew acquired three more gravity stations by hiking up the cleared 1994 UTEM trail from Meachen FSR to Evans Creek basin. This completed a 3 km line of gravity stations south from the FSR up Evans Creek to the basin along the west side of the Mag AOI. One final new gravity station was acquired at the end of a Hazard FSR spur road near the new GPS/RTK base.

Data Processing

The elevation programmed into the GPS base for the first day's work was later found to be exactly 1 metre lower than the actual elevation of 1108.8 m. As a result, one metre was added to elevations of stations recorded on the first two days since the second day's GPS base coordinate had been established on day one. All gravity station coordinates in the upper basin (day 3) were adjusted for the difference between the base's estimated position for the day and its precise (point) position (PPP) subsequently obtained from the Government of Canada Spatial Reference System (CSRS). The CSRS-PPP document is in Appendix 8.

The calculated 2021 Observed Gravity values and final GPS coordinates were entered into a spreadsheet containing the EKGDB (Sanders, 2013) supplemented with the 2017 gravity data from AR 37220. Latitude, Free-air, and Bouguer Corrections were calculated as per the EKGDB data. A 50-metre Inner Terrain Correction (ITC) for each station was calculated in a spreadsheet using the 10 sector values (mean metric height differences) recorded for each station. Outer Terrain Corrections were calculated from 50 metres to 30 kilometres for each station using the BC TRIM DEM and GSC 1 km Digital Terrain File data. A complete listing of the 2017 and 2021 station data and Bouguer Anomaly data at three densities, using the same file format as the EKGDB, is provided in Appendix 9.

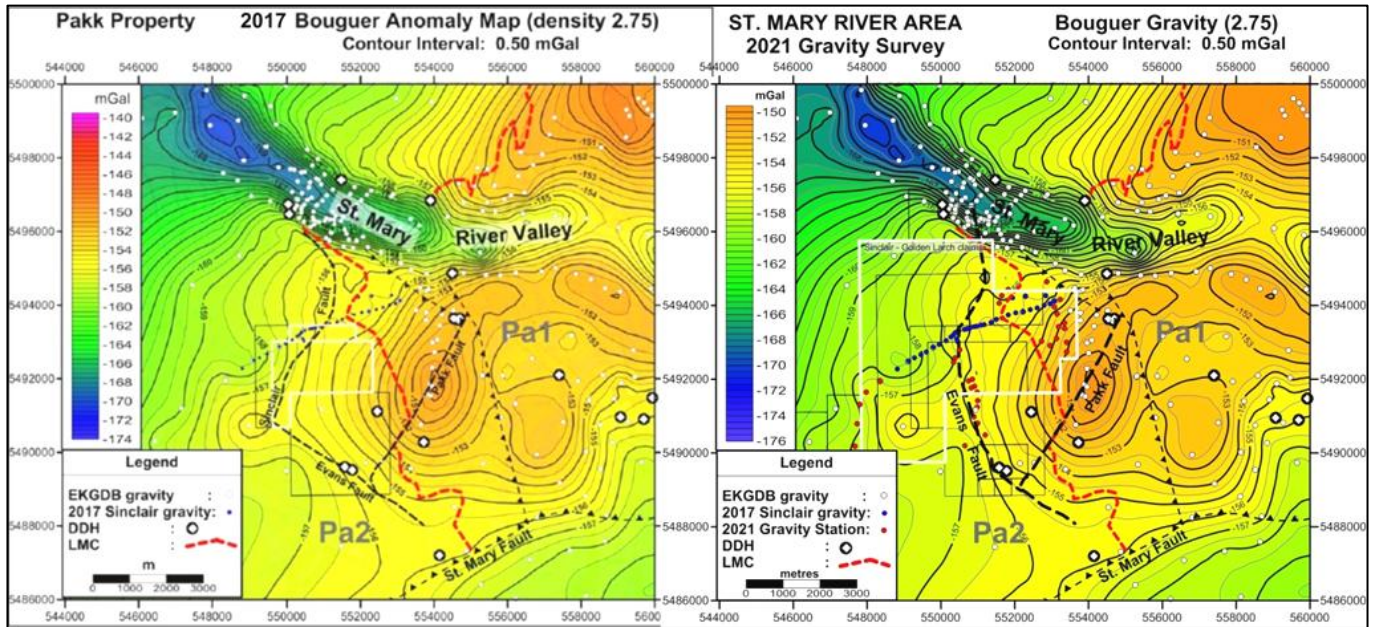


Figure 15 Bouguer Anomaly Maps - 2017 and 2021

A 250 metre grid was made from the density 2.75 Bouguer Anomaly data in the supplemented EKGDB file. Figure 15 shows the 2017 Bouguer Anomaly map on the left and the 2021 Bouguer map using the new data on the right. The 9+ mGal gravity low spanning the St. Mary River valley is due to thick lower density alluvium and till relative to the surrounding Aldridge country rock. Gravity highs are associated with thick gabbro sills in Lower Aldridge (Pa1) rock east of the property and north of the river valley.

The new gravity stations on the west Sinclair logging road at the east end of the claims had a minor impact, pulling contours slightly east however a more significant change is seen west of the Evans Fault at Meachen FSR. The “-157” contour at the (green) gravity low that noses in from the northwest on the 2017 Bouguer map now extends farther southeast towards the new stations in the upper basin south of Meachen FSR. Three of these new stations on the UTEM trail leading up from Meachen FSR were near the crest of a steep ridge; a setting not ideal for gravity readings. This does increase the likelihood of underestimating the Inner Terrain Correction calculations but this low also appears to extend toward the new stations in the upper basin 600 metres farther south. Regional-Residual separation of the data grid will be covered in the geophysics interpretation.

Interpretation – Mapping

Area 1

Paleocurrents based on cross bedding likely reflect prevailing water flow and reworking of sediment and may be unrelated to turbidite flow direction. Paleocurrent directions from cross bedding SE of Sullivan are from E, and south of Sullivan are from S. The ripples observed in this area are minor cross beds in cross section. Orientation of the ripples suggests a current flow from W. To improve on this direction, corrections for plunge of the Purcell Anticlinorium (assumed 10° N) and then tilt of bedding to horizontal provides an approximation of trend during sedimentation of 04-024, and by inference current flow was from NNW. This current flow direction is suspected to reflect local penecontemporaneous sea floor topography possibly developed in conjunction the Pakk growth fault 3 km to the E.

The chlorite schist boulder located on the axis of the ground magnetometer survey anomaly is believed to be derived from intrusive material that may only be discontinuously present along the defined trend. It is similar to descriptions of the Jack Pipe, 2700 metres to the south in an adjacent drainage and 250 metres vertically below the separating ridge. It cannot be glacially transported from the Jack Pipe but it may be related at depth. Other than having a basic signature (eg elevated Ni, Co and Cr), only Ba (7500 ppm) appears to be anomalous.

All anomalous magnetic susceptibility measurements, most in rocks with fine limonitic fractures, both in outcrop and subcrop rubble, are located along the axis of the 2018 ground magnetic survey anomaly and are the probable cause of the small EM and ground magnetic survey anomalies.

Area 2

Strata in this area generally dip moderately SW except in the vicinity of Evans Creek. Revision of earlier mapping seems to demand a thrust fault between gabbros west of Evans Creek and above the FSR. A corresponding thrust is inferred below the gabbro E of Evans Creek and inferred to link to other inferred the thrusts of Area 3. Of most importance is presence of Evans Fault, observed in the creek. The fault appears to be a very steep, normal, west side down structure. Sense of any lateral offset cannot accurately be determined because stratigraphic control has not been obtained in sufficient detail and the surface of the fault plane is not adequately exposed. Judging from the map, especially elevation difference between projections from corresponding gabbro outcrops, offset may be in the order of 100 to 200 metres. The Fringe marker identified just below the Meachen FSR is a critical control point proving stratigraphic position relative to Sullivan Horizon and supporting west side down normal fault offset.

Magnetic susceptibility readings were typical of the different rock types measured, typically 0.050 to 0.150 x 10⁻⁶ SI units for QA and QW, 0.100 to 0.200 x 10⁻⁶ SI units for W, SW and A, and 0.300 to 0.600 x 10⁻⁶ SI units for gabbro.

Area 3

The unidentified markers are assumed to be Hiawatha or minor thin units below because they are in similar relationship to the single gabbro seen and projected around the north flank of Mt. Evans and in the Evans Creek area. I have personal knowledge that there are several thin (unnamed) marker segments between Hiawatha marker and the Fringe zone (Lois, Shan, Fringe and Vine markers) 180 to 290 metres above Sullivan mine. For the purposes of interpretation the gabbro occurrences in this stratigraphic interval near Meachen Creek are considered fault repeats of a single gabbro such as has been mapped and drilled in this stratigraphic interval up to 3 km east of this area. Although the gabbro has been inferred to cross stratigraphy based on drilling on Mt. Evans about 5 km S of Evans Creek, there is no indication of such discordance in the area recently mapped. Some gabbro sills SE of Meachen Creek, in Area 3 and beyond to the NW do not continue suggesting there are fault cut-offs.

Magnetic susceptibility readings were typical of the different rock types measured, typically 0.050 to 0.150×10^{-6} SI units for QA and QW, 0.100 to 0.200×10^{-6} SI units for W, SW and A, and 0.300 to 0.600×10^{-6} SI units for gabbro.

Seismic Syncline

Portions of this structure have appeared on maps as far back as Leech (1957) (and probably on one of the associated preliminary maps of 1950, 1951 and 1952). The southern portion was mapped out by Cominco during the 1990s on map 082F059, shown in AR37952. A prominent upright synclinal structure is evident on a seismic section along Meachen Creek from data obtained from Duncan Energy in the 1980s which was reprocessed and interpreted (Cook, 2017) and is shown in Figure 19. The northern portion of this structure on the mountain N of Meachen Creek is shown in Figure 16.



Figure 16 Syncline looking NNW across Meachen Creek from 547975, 5491650, elev 1320.

Limited geological data further north suggests the syncline may extend as far as Redding Creek. Scattered bedding cleavage intersections suggest a shallow ($\pm 15^\circ$) south plunge of this fold, in keeping with projection of gabbro sills and strata on opposite sides of Meachen Creek, and with probable subsidiary structures in Evans Creek (Figure 10 and Figure 11).

Interpretation – Geochemistry

The rock geochem results suggest there is a weak Sullivan type of mineralization signature developed on the trend of the ground magnetic anomaly detailed in 2018. Sample 107025 has anomalous Pb of 88 ppm, Bi of 1.56 ppm, and possibly anomalous Sn of 26 ppm, Ga 33 ppm and of In of 0.15 ppm. There is insufficient regional analytical data on Sn, Ga and In for background comparison; levels of these elements are highest in the 6 samples of this study. These elements are all associated with the Sullivan ore deposit. Levels of Zn of 88 ppm and Ag 47 ppb that do not support this conclusion may have been leached as they are present in the soils below and nearby at higher levels. Samples 107023 and 107026 from quartz veins have lowest levels in most of the elements in this sample set and therefore are of no interest. Samples 107027 and 107028 are typical of argillaceous Aldridge metasedimentary rocks and analytical data is within the range commonly associated with these rock types. Sample 107024 is chloritic rock containing fragments of metasedimentary rock has 336 ppm Ni, 38 ppm Co, 882 ppm Sr and 605 ppm Co, levels commonly found in Moyie intrusions from which this rock is likely derived. Unlike the similar Jack Pipe (dike) 2 km to the south, this diatreme does not have elevated levels of Pb and Zn suggesting it may be derived from the sill above Sullivan Horizon that is a few tens of metres below this outcrop area.

Soil geochemistry also supports the above interpretation. The wider dispersion of Pb than Zn in soils is indicative that Pb enrichment is associated with the presumed cause of the ground magnetic anomaly. These ore elements are interpreted to indicate leakage from Sullivan type of mineralization at depth.

Interpretation – Geophysics (Gravity)

The dipolar magnetic anomaly (Mag AOI) of interest indicated on Figure 4 and Figure 7 is located on the steep east slope of Evans creek draining the large north-facing cirque of Mt. Evans. The west side of the anomaly extends to the Evans Fault along the valley floor. A north-south topographic profile near UTM easting 551100 is shown in blue on Figure 17 below. Sullivan Horizon is estimated to be 600-900 metres below surface in the vicinity of the Mag AOI. A Sullivan size body (pink) is the inferred cause of the Mag AOI and the sketch provides a reference to where a magnetic and high-density mass may reside relative to Meachen FSR and some geophysical indicators noted in this report.

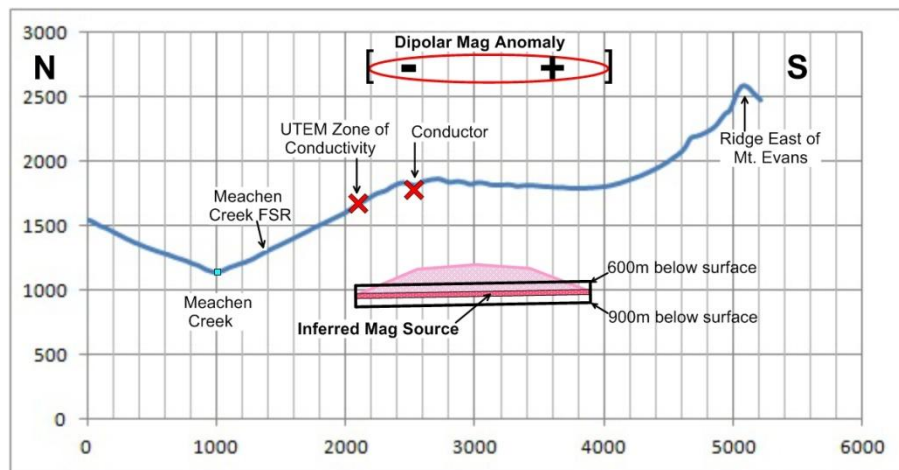


Figure 17 Topographic Profile – Sketch of Mag Anomaly and Inferred Source

The 2017 gravity data on Meachen FSR supported the notion that a higher density source may reside south of Meachen FSR however there was not enough data for a thorough and quantitative interpretation of an anomaly at the Mag AOI.

Most interpretations of gravity data are done using a Residual Gravity map that has been filtered to remove the longest wavelength components of the Bouguer grid having very deep sources (Regional-Residual separation). For this project that type of Residual grid would likely include anomalies having sources of interest from Sullivan Horizon (600-900 m) depth, terrain correction noise due to the rugged terrain, and anomalies having near-surface sources of less interest in the search for a deeper buried source. Therefore a different approach is used here to first mitigate anomalies from near-surface sources with the intent of isolating anomalies possibly having deeper-sources of interest afterwards.

Gravity modelling of a N-S profile W of St. Mary Lake has indicated that alluvium and till in the river valley may be 400 metres deep to account for the 9 mGal low here (Sanders, 2011). In an attempt to remove the entire St. Mary valley low from the Bouguer grid, the grid was filtered starting with a 2 km radius filter and increasing its size in 500m increments on successive test runs. A 4-kilometre radius filter was required to remove the anomalous St. Mary Bouguer low into the first Residual grid. The alluvium/till gravity

model provides confidence that the 4 km Residual grid created by the filter only contains data having wavelengths shorter than those that would be sourced by a mass near Sullivan Horizon at the Mag AOI. The gravity information of interest for this prospect is therefore contained in the complimentary 4 km Regional grid but the 4 km Residual grid and its map still contains relevant near-surface information.

The 4 km Residual Gravity map (Figure 18) has provided information to help answer a few geology questions (two areas on the west side of the map without gravity stations and are faded out where the interpolated contours are much less reliable). The 2021 gravity station locations are the white dots on the image.

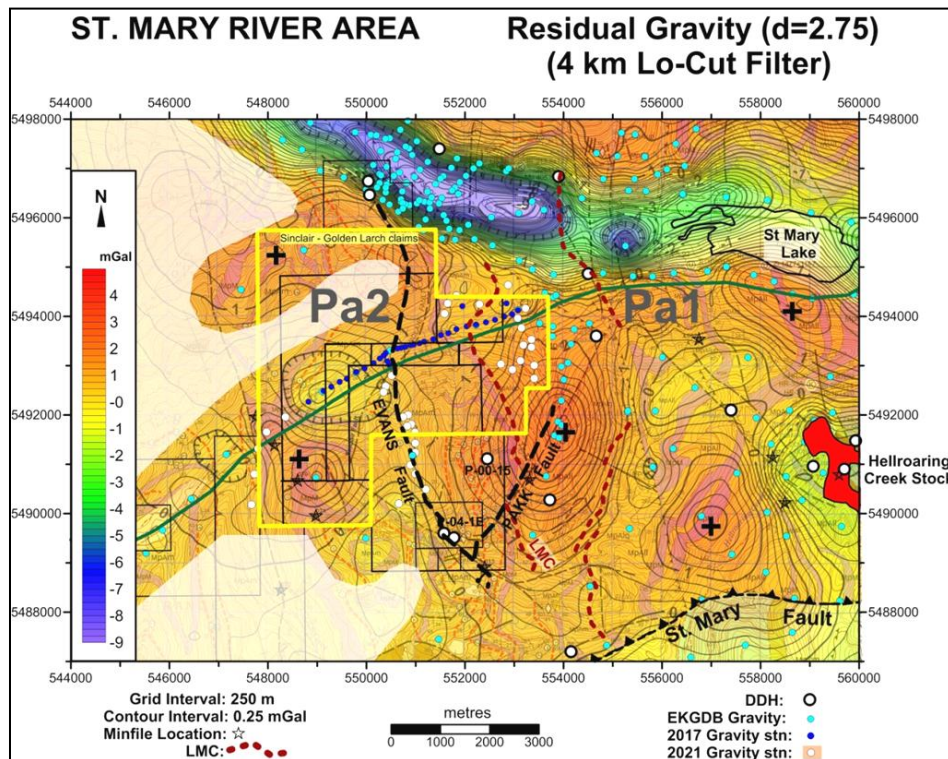


Figure 18 4 km Residual Gravity on GSC Geology

Two Residual Gravity highs at the west side of the claim block (black “+” signs) are coincident with projections of gabbro sills at surface. The large-dimensional high at the southeast corner on the east side of the claim block is in Lower Aldridge (Pa1) rock. No gabbro is noted on the GSC map however the updated 1:10,000 scale geology map does indicate a large area of gabbro here. The anomaly’s elongate dimension suggests the gabbro may be an anticlinal nose of a thick sill like the Bootleg sill north of St. Mary River. Northwest of this anomaly a narrow gravity high (nose) intersects Meachen FSR at a mapped gabbro sill west of, and stratigraphically above, the LMC. The five new gravity stations at the west end of claims (Fiddler Creek) have redefined the Residual high to be narrower at Meachen FSR and coincident with an outcropping thin sill. The hachured gravity low spanning the FSR west of Evans Creek is now larger in both dimension and amplitude than the 2017 version. Recent mapping found no gabbro where one is shown on the GSC geology map (Brown, et al., 2011) at the west side of this low.

A reprocessed (migrated) Duncan Energy seismic section on Meachen FSR (Cook, 2017) is shown in Figure 19. This seismic line is shown in green on Figure 18. The seismic syncline is the prominent structure on the section. The Residual Gravity high (+) east of Fiddler creek in the SW corner of the claim block (Figure 18) coincides with extensive thick Middle Aldridge sills and the adjacent lows coincide with where there is little or no gabbro above (SW) and below (NE) this interval on the east limb of the seismic syncline. Recent mapping shows that the fault named Sinclair on OF 6308 (Brown et al., 2011) and shown in Figure 18 does not exist. The Sinclair Fault on Figure 19 is where Evans Fault cuts the section and it is about 45° closer to normal to the section than the non-existent Sinclair Fault was.

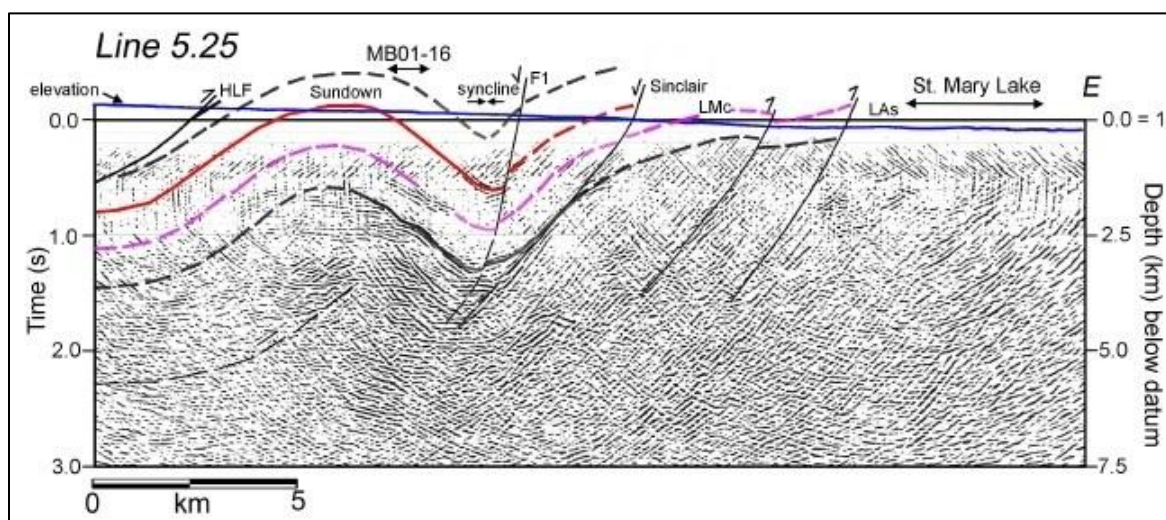


Figure 19 Duncan Energy Seismic Line 5.25 on Meachen Creek FSR

Figure 20 is a reduced image of the 4 km Residual Gravity map overlaid on the updated 1:10,000 geology map (Appendix 3) and GSC OF 6308 geology map, and shows the discrepancies discussed above. The GSC map showed a large gabbro complex stretching across Meachen FSR east of the Fiddler Fault whereas the updated geology map shows only two narrow sills. The ridge of gravity contours between the two lows agrees with the updated mapping. Also shown is gabbro associated with the central portion of the large high at the southeast corner of the claims. As previously mentioned this gabbro may be an anticlinal culmination of a very thick sill that could explain this residual anomaly.

One 2021 gravity station in the SW corner of the upper Evans Creek basin west of the Evans Fault suggests that the prominent low on the Meachen FSR between Fiddler and Evans creeks may extend at least 3 kilometres south. Additional gravity stations west of Evans Creek are required to confirm such an interpretation.

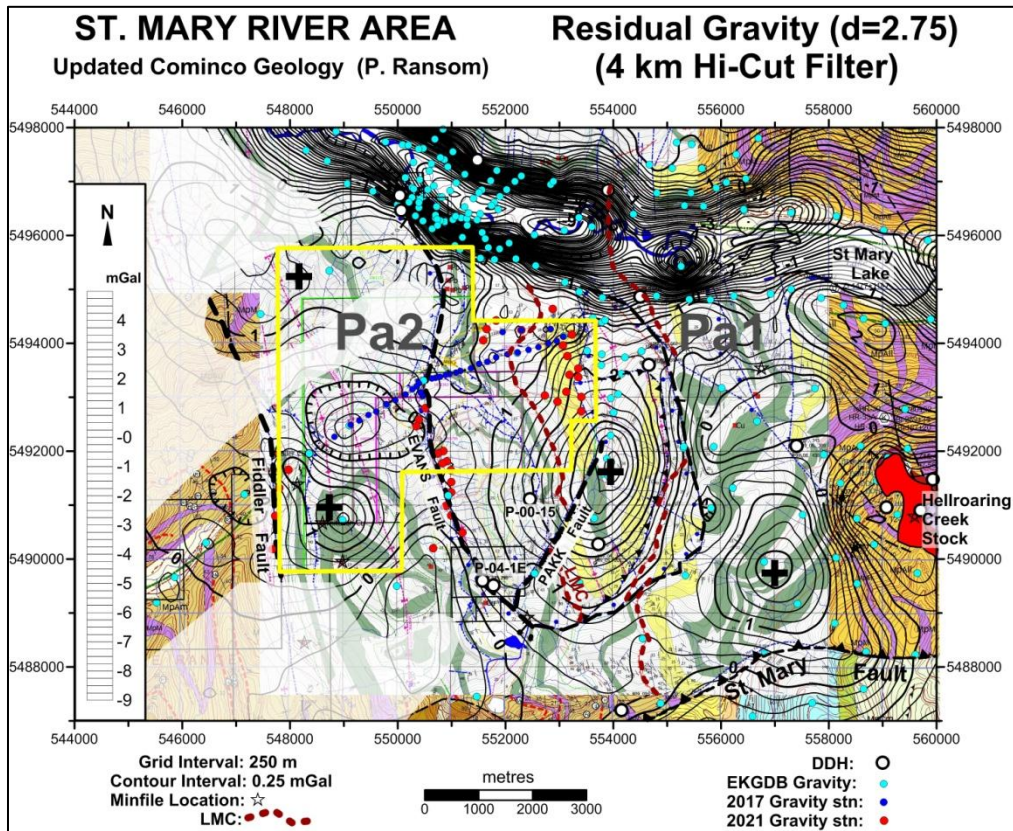


Figure 20 4 km Residual Gravity on updated 1:10,000 scale Surface Geology

The 250 metre Bouguer grid was 68 x 80 km in dimension. As done in AR 37220, the 4 km Regional Gravity grid was then filtered using a 10 km filter to produce a second Regional/Residual pair of grids. The 10 km Regional grid (Figure 21) contains the deep-sourced gravity gradient which decreases by over half a milligal from east to west across the Mag AOI. The 2017 and 2021 versions are both shown to indicate that this product has not changed significantly after addition of the new gravity stations to the data file.

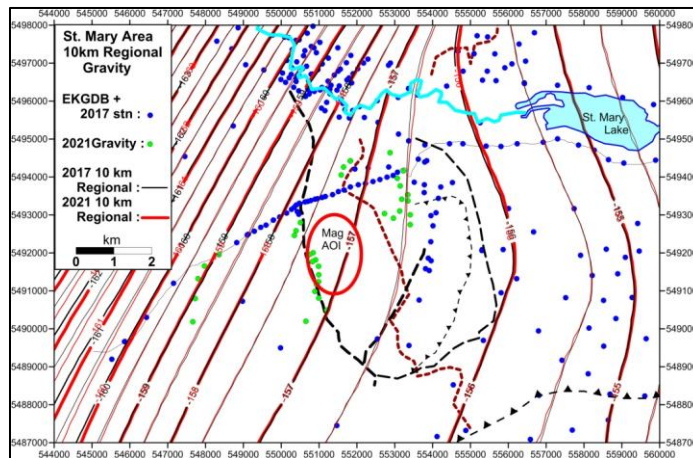


Figure 21 Portion of the 10 km Regional Gravity map

The complimentary Two-Pass Residual Gravity map (Figure 22) is overlaid on the 1:10,000 geology map and highlights mid-wavelength components of the Bouguer grid having deeper sources and possibly large-dimensional shallower sources due to the “Principle of Equivalence” as per Figure 7. The map is centered on the Mag AOI (blue).

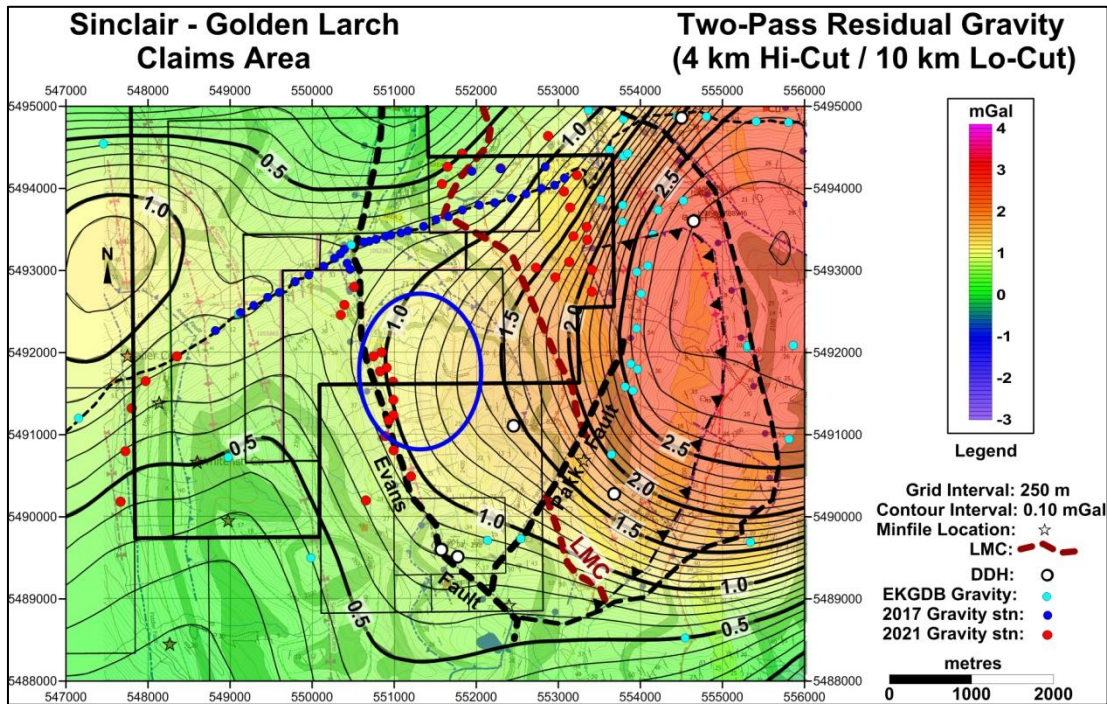


Figure 22 Mineral Claims Area - Two-Pass Residual Gravity map

There is a broad gravity high associated with Lower Aldridge east of the claims. Though this map isolates anomalies from deeper sources, due to the large dimension of this anomaly it likely has near-surface sources and the geology map indicates gabbro at surface near the centre of the high. The SW and NW flanks of this high have stable gradients between the 1.5 and 2.5 mGal contours whereas the contours on the W side of the high appear perturbed to the west. This contour bulge appears slightly reduced in size from that detailed previously by Sanders (2018).

There is still a lack of gravity data on the upper talus slope and ridge on the east side of the Mag AOI. The 15 stations south of Meachen FSR now extend 3 km into the upper basin and intersected the west flank and south end of the Mag AOI. These and the 11 new stations to the east have not substantially changed this map from the 2017 version however the improved coverage has provided confidence that estimating a Residual gravity anomaly here using this map is feasible. Since Figure 22 is already filtered, doing this for the contours west of the LMC requires using the traditional method of creating a localized regional (set of contour lines) on a map by hand using available information.

A portion of the Two-Pass Residual Gravity grid was contoured at 0.1 mGal over the broad gravity high on the eastern half of the claims and the area west of the LMC to be residualized was blanked out. The distance between the 2.0 and 2.5 contours directly east

of the blanked area was used as a guide to smoothly interpolate, and draw by hand on paper, “new” Regional contours (blue) starting from the 1.6 contour and working west (Figure 23a). The next step (Figure 23b) consisted of posting the residual values (differences) at crossovers of original with hand-drawn Regional contours; each crossover of a map contour with another regional line is an increase of 0.1 mGal.

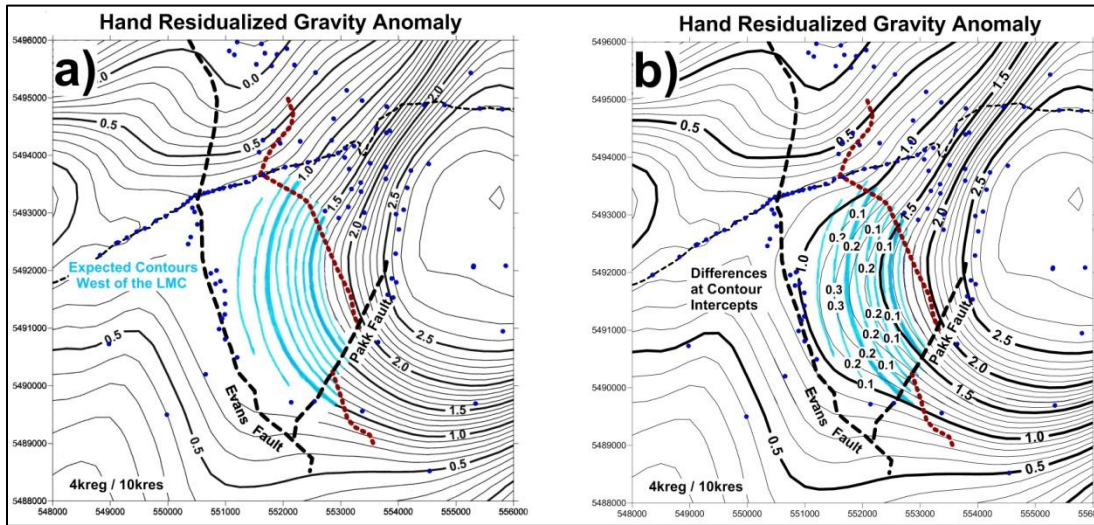


Figure 23 a) Hand-Drawn Regional Gradient b) Differences at Contour Intercepts

Three ellipses display the resulting residual contours (Figure 24a). They represent a best fit (smoothed version of a line) linking the posted 0.1, 0.2, and 0.3 mGal residual values together. The 0.0 contour line was fit to where the blue Regional contour line endpoints start near the LMC to the north and Pakk Fault to the southeast on Figure 23a. There are no data points to contour west of the Evans Fault but this does not have a significant impact on estimating the N-S extent of the anomaly source.

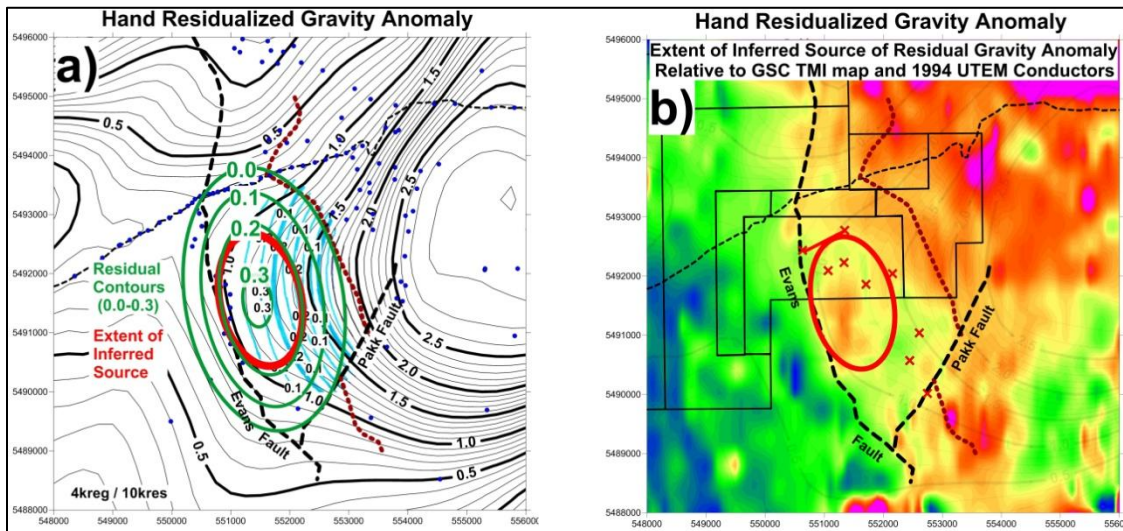


Figure 24 a) Residual Anomaly Contours b) Estimated Extent of Anomaly Source

The lateral extent of a single subsurface mass is generally located mid-gradient between the high and the low of an anomalous area. For this example the anomaly center and the 0 contour can be considered to represent the high and low values of the anomaly, respectively. The red ellipse on Figure 24a is a best fit to the mid-points from the 0.0 contour to the peak in four (N,E,S,W) directions which positions it just inside the 0.2 mGal contour. This ellipse then represents the residual anomaly's inferred lateral extent based on this hand-drawn regional. The anomaly has amplitude just over 0.3 mGal.

The red ellipse on Figure 24b is a digitized version of the inferred source extent of the anomaly on Figure 24a inserted on a map of the edited GSC TMI grid and shows its location relative to the Mag anomaly of interest and the noted 1994 UTEM conductors. A second hand-drawn (blue) Regional version (not shown) was made which kept the regional contours slightly more parallel to the trend of the LMC (and deepening gabbro) as might be expected in the case of an arching gabbro sill. This (more subjective) version added approximately 0.1 mGal to the amplitude of the resulting residual gravity anomaly.

Conclusions - Mapping

Area 1

- The paleocurrent from NNW inferred from ripples, in contrast to what is found near Sullivan, supports the concept of irregular sea floor topography and flow toward the major PAKK growth fault to the east.
- The chlorite boulder located in colluvium directly on a small mag anomaly feature is likely derived from a discontinuous string of igneous material along that zone.

Area 2

- The Evans Fault is a near-vertical structure with about 100 to 200 metres of offset however more stratigraphic and structural information is needed to make a more accurate determination. Folding on both sides of the structure indicate west side down with a slight right-lateral component, consistent with the map pattern of strata and sills and fold plunge.
- Unidentified markers were located near where Hiawatha marker is inferred a short distance above a gabbro sill.
- The confirmed Fringe marker removes any doubt of stratigraphic position of strata in the immediate vicinity and of outcrops within the same structural block. This occurrence is important because the marker is within, or displaced very little from, the structural block hosting the Mag AOI. The Fringe marker is 210 metres above Sullivan mine; therefore, a reasonable interpretation is that the anomaly is at about the regional expression of the Sullivan ore horizon. It should be noted that stratigraphic distance from Fringe marker to the stratum associated with the anomaly may vary a certain amount (even 50% to 100%) from that at Sullivan mine. And it is known from regional mapping that Middle Aldridge is considerably thicker in this area than it is close to Sullivan.

Area 3

- The stacked arrangement of discontinuous gabbro sills is inferred to indicate a thrust duplex, as shown in Appendix 5. The duplex trends into the area of the mag AOI, therefore further mapping is required to identify markers and locate faults or outcrops to provide constraints and to verify and detail this interpreted feature.

Conclusions - Geochemistry

The elevated Pb, Bi, Sn and In values in one of the rocks collected close to the ground magnetic anomaly detailed in 2018 and related dispersion of Pb in soils are suggestive of a leakage anomaly, possibly derived from the cause of large Mag AOI. This anomaly is projected to be at the same stratigraphic level as Sullivan and to consist of a similar mineral assemblage.

Conclusions – Geophysics

The 2021 Gravity Survey has enabled a more accurate delineation of a residual gravity anomaly in the area hosting a dipolar Aeromagnetic anomaly three kilometres north of Mt. Evans. The Residual Gravity anomaly has amplitude approximately 0.3 mGal but could easily vary because it is based on a hand-calculated Regional. Regardless, the estimated location and dimension of an inferred source is not affected by anomaly amplitude and likely would not change substantially from its present size which is comparable to the dimension of the Mag AOI. The anomaly is extremely significant considering that, as shown on a Fred Cook model from a 2017 geophysics short course (Appendix 10), a Sullivan deposit buried 750 metres would make a 0.4 mGal anomaly and the estimated source depth to Sullivan Horizon in the Mag AOI isn't explicitly known. Finding half of a Sullivan would be a major discovery.

Recommendations

Continue to conduct mapping at lower levels on Mt. Evans along Meachen FSR and N of Meachen Creek to refine the details of stratigraphy and structure in order to devise further geophysical surveys and drill programs to test the geophysical anomaly and interpreted down-dropped Sullivan ore horizon on the W side of Evans Creek.

Budget:

Geologist with support ~ 1 month	\$20,000.00
Rock and soil sampling 100 @ \$50/sample	\$ 5000.00
Reporting	\$10,000.00
Total	\$35,000.00

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Statement of Qualifications

I, P.W. Ransom, Geologist, with business address and residential address of 9452 Clearview Road, Cranbrook, B.C., V1C 7E2, hereby certify that:

- I am a graduate in Geological Sciences with a B.Sc. (1966) from McGill University.
- I was employed by Cominco Ltd from 1966 to 1999 and was continuously engaged in mining and exploration geology during that time.
- I have worked as a contract geologist, consultant or advisor for several clients since 1999, including Teck, Stikine Gold Corporation, Roca, Apex Geoscience, Gravitas Metals Corp, Omineca Mining and Metals, Santa Fe Metals Corp and Kootenay Zinc Corp.
- I was Project Manager for the Sullivan Deeps drilling project of Stikine Gold Corporation from the spring of 2003 until June 2007, and was directly involved in planning the drilling, coordinating and supervising contractors, monitoring results including logging and sampling of core.
- As a former partner in the Sully property near Fort Steele, BC, I conducted geological mapping and provided guidance and assistance in several geophysical surveys. I managed drill programs on Sully from 2012 to 2018.
- I periodically conduct geological investigations for Vitreo Minerals (formerly Northern Silica).
- I have undertaken geological investigations for Blackstone Mining Company Inc./Aldridge Stone Ltd. focusing on geology and sampling for ARD investigations for permitting purposes.
- I am sole owner of the Golden Larch Claims and have conducted geological mapping and related exploration on these and Sinclair claims since 2017.
- I am a member of the Association of Professional Engineers and Geoscientists of BC (2005) License # 29629.

December 2021

Signed: *P.W. Ransom*
P.W. Ransom, P. Geo.

I, Edward (Ted) Sanders, certify that:

- I am an independent prospector, presently residing in Fernie, British Columbia.
- I have been actively prospecting for minerals in British Columbia for 11 years and own mineral claims in southeastern British Columbia.
- I was formerly employed (7 years) as a Geophysical Technician for an oil & gas company (Potential Fields Dept.), and have been a Geophysical Consultant for 20 years.
- I am a graduate of the University of Waterloo (B. Mathematics, 1978).
- I am the creator the East Kootenay Digital Gravity Database (EKGDB), now property of Geoscience BC (data file #2013-24).

APPENDICES

Appendix 1. Exploration and Development Work for event 5853734.

Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change **Confirmation**

Recorder: SANDERS, EDWARD ARTHUR (241121) **Submitter:** SANDERS, EDWARD ARTHUR (241121)
Recorded: 2021/DEC/03 **Effective:** 2021/DEC/03
D/E Date: 2021/DEC/03

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: **5853734**

Work Type: Technical Work
Technical Items: Geochemical, Geological, Geophysical, PAC Withdrawal (up to 30% of technical work required)

Work Start Date: 2020/AUG/15
Work Stop Date: 2021/NOV/30
Total Value of Work: \$ 34485.34
Mine Permit No:

Summary of the work value:

Title Number	Claim Name	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
1052363	SINCLAIR	2017/JUN/04	2020/NOV/10	2023/jan/20	801	83.75	\$ 2101.71	\$ 0.00
1055795	Sinclair-2	2014/JUN/02	2020/NOV/10	2023/jan/20	801	418.84	\$ 17212.40	\$ 0.00
1055865	SINCLAIR-3	2017/OCT/30	2020/NOV/10	2023/jan/20	801	146.59	\$ 3381.58	\$ 0.00
1062227	SINCLAIR-4	2018/AUG/07	2020/NOV/10	2023/jan/20	801	125.61	\$ 2291.94	\$ 0.00
1069925	GL3	2019/JUL/28	2020/JUL/28	2022/dec/20	875	565.25	\$ 7898.06	\$ 0.00
1072425	GOLDEN LARCH A	2019/NOV/04	2020/NOV/04	2022/dec/20	776	690.92	\$ 7780.00	\$ 0.00
1072426		2019/NOV/04	2020/NOV/04	2022/dec/20	776	314.08	\$ 3536.60	\$ 0.00
1074009	SINCLAIR-5	2020/JAN/20	2021/JAN/20	2022/dec/20	699	167.61	\$ 1604.90	\$ 0.00

Financial Summary:

Total applied work value: \$ 45807.19

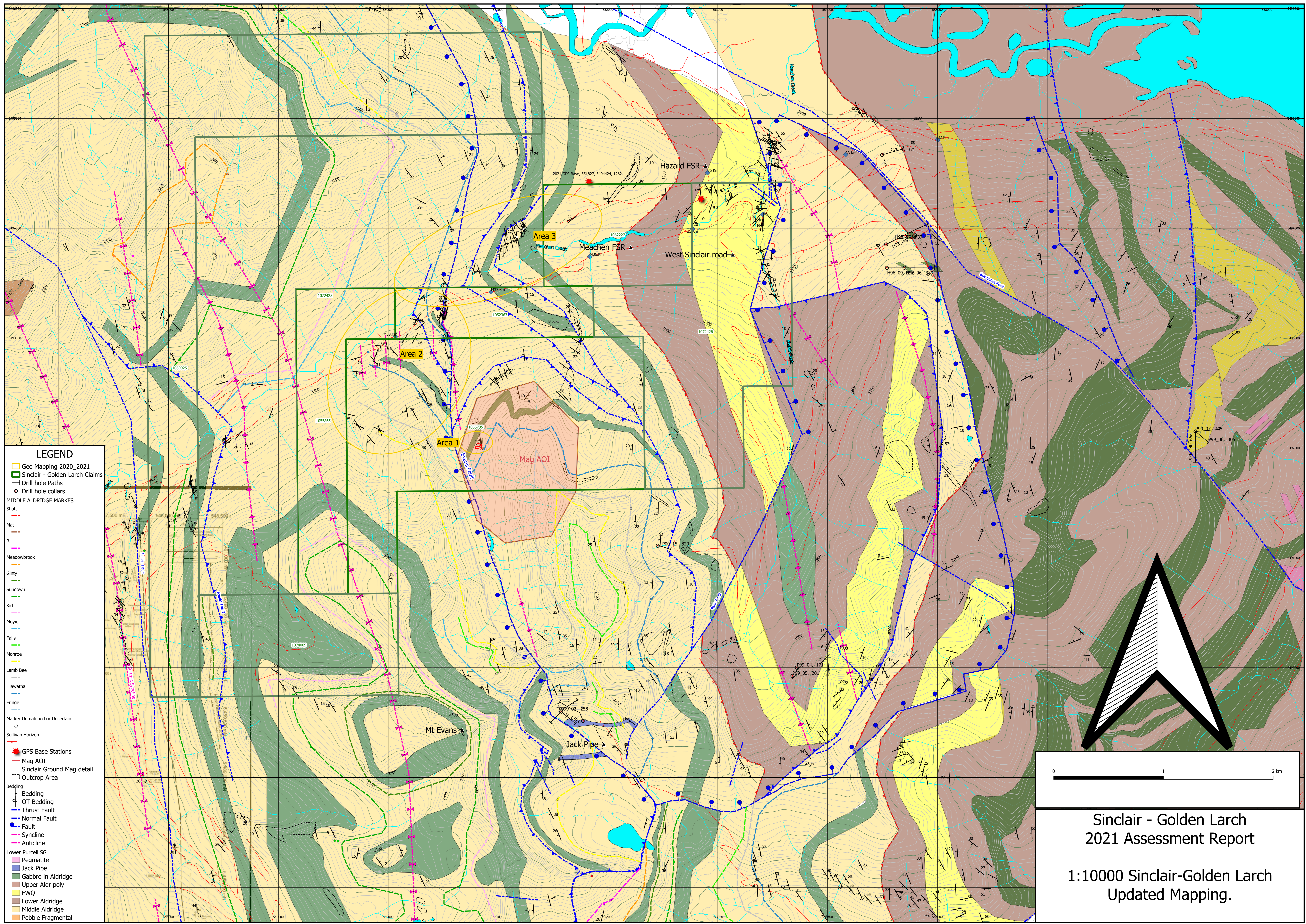
PAC name: Sanders, Edward (Ted)
Debited PAC amount: \$ 11321.85
Credited PAC amount: \$ 0

Total Submission Fees: \$ 0.0

Appendix 2. Cost Statement

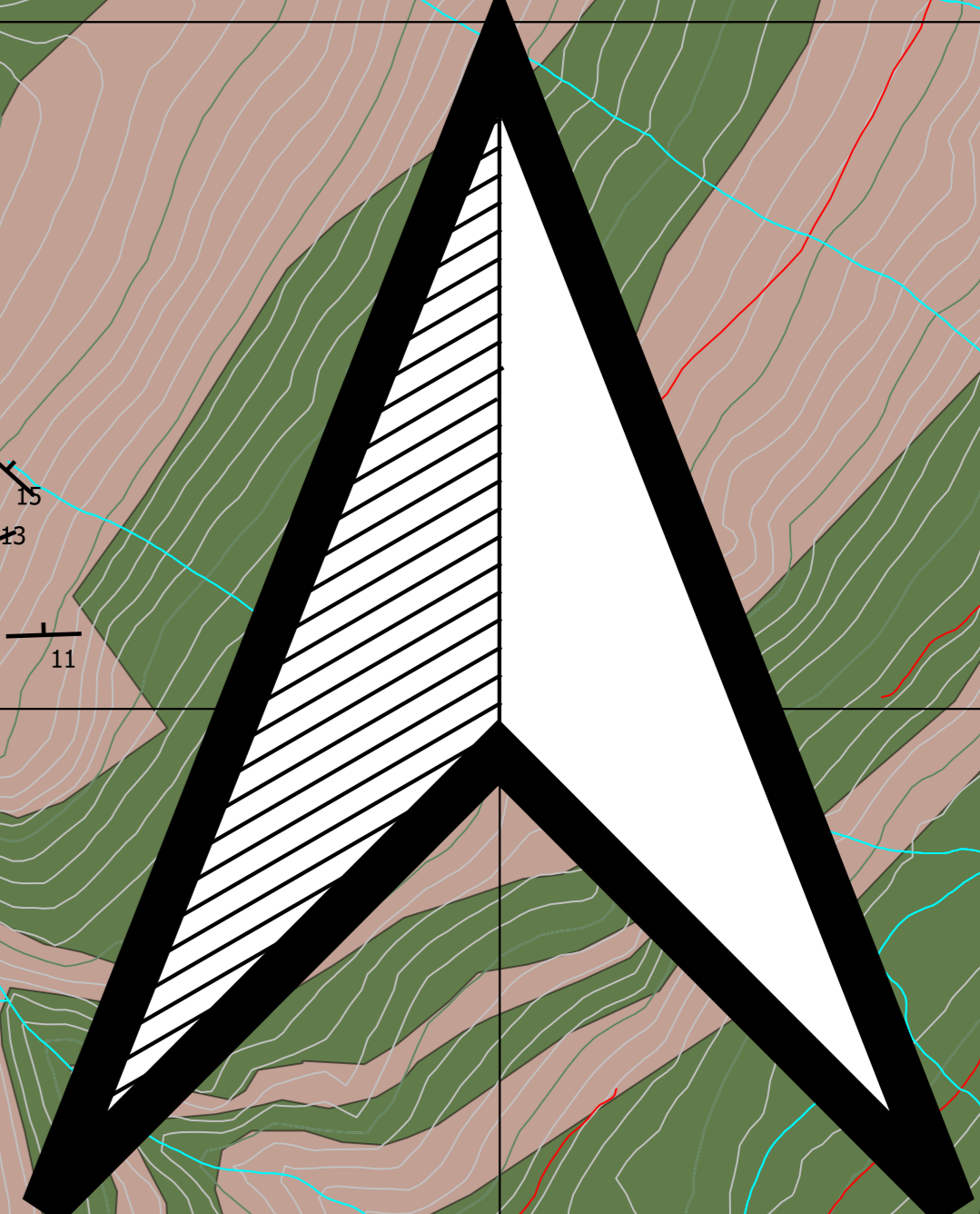
Activity	Date	Personnel	Days	Rate	Amount
Heli to survey area (return)	20/09/2020				\$1,804.32
Geological Mapping	20/09/2020	Ted Sanders	1	\$495.00	\$495.00
	20/09/2020	Richard Reedyk	1	\$350.00	\$350.00
	20/09/2020	Richard Reedyk (chain saw)		\$100.00	\$100.00
	20/09/2020	Paul Ransom (P.Geo.)	1	\$1,000.00	\$1,000.00
	20/09/2020	Richard Reedyk - truck		\$150.00	\$150.00
	20/09/2020	Paul Ransom (P.Geo.) - truck		\$150.00	\$150.00
	15/08/2020	Paul Ransom (P.Geo.)	1	\$1,000.00	\$1,000.00
	15/08/2020	Paul Ransom (P.Geo.) - truck		\$150.00	\$150.00
Geochemistry Assessment	16/08/2020	Paul Ransom (P.Geo.)	0.5	\$1,000.00	\$500.00
Geochemistry Plotting	30/10/2020	Paul Ransom (P.Geo.)	0.5	\$1,000.00	\$500.00
Geochemistry Review	05/03/2021	Ted Sanders	1		\$495.00
Geochemistry Analysis - VAN21000042.1	17/02/2021	Bureau Veritas			\$425.83
Geochemistry Analysis - VAN21000043.1	19/02/2021	Bureau Veritas			\$667.17
Scout claims for 2021 gravity survey	29/08/2021	Ted Sanders	1	\$350.00	\$350.00
	29/08/2021	Ted Sanders- vehicle		\$150.00	\$150.00
Pick up GPS rec'vrs, tripods & antennae	30/08/2021	Ted Sanders	1	\$350.00	\$350.00
radio transmitter, gravity meter in High River, Ab.		Ted Sanders- vehicle		\$150.00	\$150.00
Purchase 12 volt motorcycle battery	03/09/2021	Ted Sanders		\$186.31	\$186.31
2 days training/research re: Leica RTK GPS (Sept 1 - 5)		Ted Sanders	2	\$350.00	\$700.00
Gravity Survey - Day 1	07/09/2021	Ted Sanders - G meter operator	1	\$650.00	\$650.00
	07/09/2021	Ted Sanders- SUV			\$150.00
	07/09/2021	Richard Reedyk - GPS assistant	1	\$350.00	\$350.00
Gravity Survey - Day 2	08/09/2021	Ted Sanders - G meter operator	1	\$650.00	\$650.00
	08/09/2021	Richard Reedyk - GPS assistant	1	\$350.00	\$350.00
	08/09/2021	Richard Reedyk - truck			\$150.00
Invoice - Bighorn Helicopters	10/09/2021	Heli-Transport 3 to North Evans basin			\$1,052.52
Gravity Survey - Day 3	10/09/2021	Ted Sanders - G meter operator	1	\$650.00	\$650.00
	10/09/2021	Ted Sanders- SUV			\$150.00
	10/09/2021	Richard Reedyk - GPS assistant	1	\$350.00	\$350.00
	10/09/2021	Richard Reedyk - truck			\$150.00
	10/09/2021	Jacob Gliedge - assistant	1	\$300.00	\$300.00
Pick up crew on Meachen FSR after hike out	10/09/2021	Paul Ransom (Richard's truck)			
Gravity Survey - Day 4 (on cleared UTEM trail)	25/09/2021	Ted Sanders - G meter operator	1	\$650.00	\$650.00
	25/09/2021	Richard Reedyk - assistant	1	\$350.00	\$350.00
	25/09/2021	Richard Reedyk - truck			\$150.00
Return survey equipment to High River.	07/10/2021	Ted Sanders	1	\$350.00	\$350.00
		Ted Sanders- vehicle		\$150.00	\$150.00
Invoice - Excel Geophysics Inc.		Rental of GPS and Gravity Meter			\$2,268.00
Geological Mapping - Up Evans Creek	10/09/2021	Paul Ransom	1	\$1,000.00	\$1,000.00
Geological Mapping - Up Evans Creek	13/09/2021	Paul Ransom	1	\$1,000.00	\$1,000.00
Geological Mapping - Below FSR N of Evans Cr	17/09/2021	Paul Ransom	1	\$1,000.00	\$1,000.00
Geological Mapping - Below FSR S of Evans Cr	25/09/2021	Paul Ransom	1	\$1,000.00	\$1,000.00
Geological Mapping - W of Meachen Cr	01/10/2021	Paul Ransom	1	\$1,000.00	\$1,000.00
Geological Mapping - W of Meachen Cr to S	08/10/2021	Paul Ransom	1	\$1,000.00	\$1,000.00
Truck for geological Mapping (Ransom)		5 days Sep 13 through Oct 8.	5	\$150.00	\$750.00
Sawing, marker matching, plotting and interpretation		Paul Ransom	3	\$1,000.00	\$3,000.00
Data entry, Observed Gravity calculations		Ted Sanders	1	\$550.00	\$550.00
Gravity - Inner & Outer Terrain Corrections		Ted Sanders	1	\$550.00	\$550.00
Processing and Quality Control		Ted Sanders	1	\$550.00	\$550.00
Gravity Interpretation		Ted Sanders	2	\$550.00	\$1,100.00
Telephone (GPS consulting)		Ted Sanders		\$20.30	\$20.30
Writing report		Paul Ransom	1.5	\$1,000.00	\$1,500.00
Writing report		Ted Sanders	3.5	\$550.00	\$1,925.00
		2020-2021 Total Cost			\$34,489.45

Appendix 3. 1:10000 Sinclair-Golden Larch – Updated Mapping



LEGEND

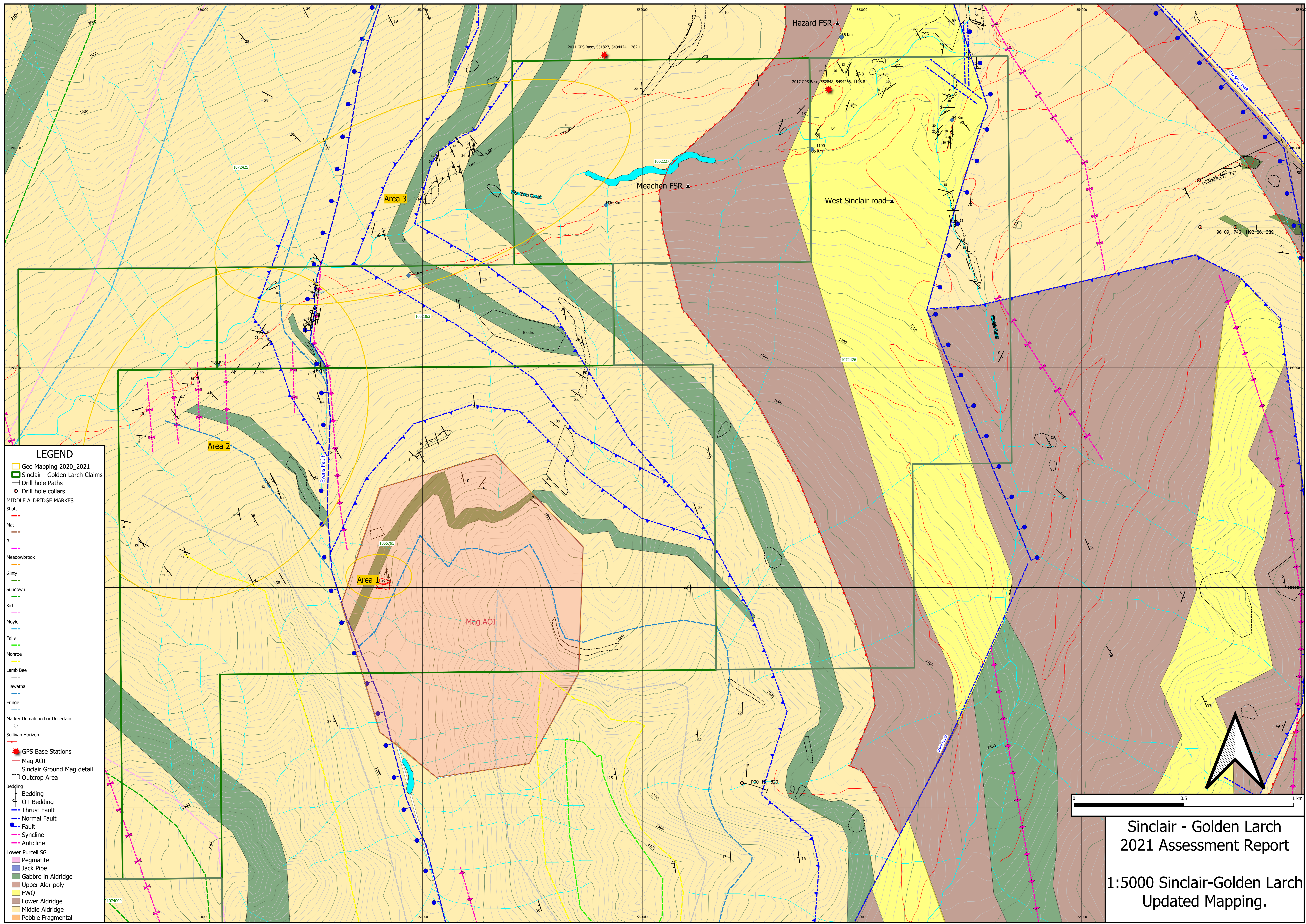
- Geo Mapping 2020_2021
 - Sinclair - Golden Larch Claims
 - Drill hole Paths
 - Drill hole collars
- MIDDLE ALDRIDGE MARKES**
- Shaft:
 - Mat:
 - R:
 - Meadowbrook:
 - Ginty:
 - Sundown:
 - Kid:
 - Moyle:
 - Falls:
 - Monroe:
 - Lamb Bee:
 - Hiawatha:
 - Fringe:
 - Marker Unmatched or Uncertain:
 - Sullivan Horizon:
- GPS Base Stations
 - Mag AOI
 - Sinclair Ground Mag detail
 - Outcrop Area
- Bedding**
- Bedding
 - OT Bedding
 - Thrust Fault
 - Normal Fault
 - Fault
 - Syncline
 - Anticline
- Lower Purcell SG**
- Pegmatite
 - Jack Pipe
 - Gabbro in Aldridge
 - Upper Aldr poly
 - FWQ
 - Lower Aldridge
 - Middle Aldridge
 - Pebble Fragmental



Sinclair - Golden Larch
2021 Assessment Report

1:10000 Sinclair-Golden Larch
Updated Mapping.

Appendix 4. 1:5000 Sinclair-Golden Larch – Updated Mapping.




LEGEND


- Geo Mapping 2020_2021
- Sinclair - Golden Larch Claims
- Drill hole Paths
- Drill hole collars
- MIDDLE ALDRIDGE MARKES
- Shaft
- Mat
- R
- Meadowbrook
- Gliny
- Sundown
- Kid
- Moyie
- Falls
- Monroe
- Lamb Bee
- Hiawatha
- Fringe
- Marker Unmatched or Uncertain
- Sullivan Horizon
- GPS Base Stations
- Mag AOI
- Sinclair Ground Mag detail
- Outcrop Area
- Bedding
- Bedding
- OT Bedding
- Thrust Fault
- Normal Fault
- Fault
- Syncline
- Anticline
- Lower Purcell SG
- Pegmatite
- Jack Pipe
- Gabbro in Aldridge
- Upper Aldr poly
- FWQ
- Lower Aldridge
- Middle Aldridge
- Pebble Fragmental

Sinclair - Golden Larch
 2021 Assessment Report
 1:5000 Sinclair-Golden Larch
 Updated Mapping.

Appendix 5. 2020 Rock and Soil Samples - Analytical Geochemistry Data

 <p>BUREAU VERITAS MINERAL LABORATORIES Canada</p>		<p>www.bureauveritas.com/um</p>		<p>Client: Excalibur 9452 Clearview Road Cranbrook British Columbia V1C 7E2 Canada</p>																	
<p>Bureau Veritas Commodities Canada Ltd. 9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158</p>		<p>Project: Excalibur Report Date: February 17, 2021</p>		<p>Page: 2 of 2 Part: 1 of 4</p>																	
CERTIFICATE OF ANALYSIS				VAN21000042.1																	
Method Analyte	WGHT	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.05	0.1	0.02	0.2	20	0.1	0.2	1	0.01	0.2	0.1	0.1	0.1	1	0.02	0.02	0.04	1	0.01	0.001
107023	Rock	0.34	0.25	19.4	3.10	4.4	35	1.1	0.7	35	0.60	7.3	<0.1	<0.1	1	0.04	0.16	0.14	1	0.02	0.005
107024	Rock	0.89	0.23	27.8	8.91	97.3	<20	336.0	37.7	991	5.30	2.8	3.2	18.7	882	<0.02	0.61	0.05	149	4.28	0.393
107025	Rock	0.27	0.80	4.4	87.97	63.0	47	7.1	4.7	422	3.42	2.8	2.8	17.2	138	<0.02	0.10	1.56	96	0.45	0.025
107026	Rock	0.26	0.16	10.8	1.43	11.2	<20	5.2	1.7	119	0.80	5.5	0.7	1.5	3	<0.02	0.12	0.08	7	0.06	0.007
107027	Rock	0.16	2.44	9.8	10.80	68.6	<20	12.1	8.2	347	3.58	2.2	2.4	11.3	33	0.03	0.09	0.22	86	0.26	0.026
107028	Rock	0.34	2.48	37.1	20.67	73.7	37	27.5	15.8	414	4.40	2.4	3.2	12.7	102	0.03	0.07	0.41	64	0.58	0.062
PHONE (604) 253-3158		Page: 2 of 2		Part: 2 of 4																	
CERTIFICATE OF ANALYSIS				VAN21000042.1																	
Method Analyte	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
Unit	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Be	Sc	S	Y	Ce	Pr	Nd	Sm	Eu	
MDL	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.2	0.1	1	0.1	0.04	0.1	0.02	0.1	0.1	0.1	0.1	0.1
107023	Rock	0.1	2	<0.01	5	0.002	0.05	0.011	<0.01	0.1	0.2	0.5	<1	<0.1	<0.04	<0.1	0.27	<0.1	<0.1	<0.1	
107024	Rock	74.6	605	6.77	7477	0.592	5.68	0.734	4.01	0.9	212.9	2.1	5	22.3	<0.04	22.8	128.02	14.3	51.3	8.9	1.6
107025	Rock	19.7	58	1.04	1139	0.473	9.67	1.388	5.61	3.4	26.0	26.2	3	17.4	<0.04	21.7	44.08	5.6	20.7	4.5	1.1
107026	Rock	15.2	3	0.09	38	0.033	0.49	0.024	0.18	0.2	0.4	0.5	<1	1.3	<0.04	4.7	27.23	3.2	11.6	2.2	0.5
107027	Rock	36.3	42	0.72	600	0.414	7.92	0.689	4.17	3.4	20.8	4.4	2	13.3	<0.04	12.7	29.90	11.4	38.0	6.7	1.1
107028	Rock	44.0	47	1.03	385	0.379	6.89	1.622	3.05	2.4	31.8	10.6	4	11.1	0.62	36.6	85.66	10.7	38.6	8.0	1.6
PHONE (604) 253-3158		Page: 2 of 2		Part: 3 of 4																	
CERTIFICATE OF ANALYSIS				VAN21000042.1																	
Method Analyte	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	
Unit	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga	In	Re	Se	Te	Tl	
MDL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.02	0.1	0.1	0.1	0.04	0.1	0.02	0.01	0.002	0.3	0.05	0.05	
107023	Rock	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	0.5	0.6	<0.1	<0.04	0.7	0.15	<0.01	<0.002	0.4	<0.05	<0.05	
107024	Rock	8.0	0.9	5.0	0.9	2.4	0.3	1.8	0.2	5.36	56.8	205.7	1.5	32.22	27.7	14.29	0.04	<0.002	<0.3	0.78	2.02
107025	Rock	3.8	0.6	4.3	1.1	3.0	0.4	3.0	0.5	0.81	44.1	247.1	1.3	18.60	16.8	33.23	0.15	<0.002	<0.3	0.09	1.98
107026	Rock	1.8	0.2	1.1	0.2	0.5	<0.1	0.3	<0.1	<0.02	3.3	16.9	<0.1	0.97	1.4	1.62	0.01	<0.002	<0.3	<0.05	0.09
107027	Rock	4.3	0.5	3.1	0.6	1.4	0.2	1.6	0.2	0.65	40.7	209.5	1.1	14.71	11.2	21.17	0.10	<0.002	<0.3	<0.05	1.14
107028	Rock	7.5	1.2	7.6	1.5	4.2	0.6	4.0	0.5	0.97	42.2	188.0	0.9	13.68	13.1	18.40	0.07	<0.002	<0.3	0.05	1.19
PHONE (604) 253-3158		Page: 2 of 2		Part: 4 of 4																	
CERTIFICATE OF ANALYSIS				VAN21000042.1																	
Method Analyte	AQ200																				
Unit	Hg																				
MDL	0.01																				
107023	Rock	<0.01																			
107024	Rock	<0.01																			
107025	Rock	<0.01																			
107026	Rock	<0.01																			
107027	Rock	<0.01																			
107028	Rock	<0.01																			

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 BUREAU VERITAS MINERAL LABORATORIES Canada www.bureauveritas.com/um		Client: Excalibur 9452 Clearview Road Cranbrook British Columbia V1C 7E2 Canada																			
Bureau Veritas Commodities Canada Ltd. 9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada PHONE (604) 253-3158		Project: Excalibur Report Date: February 19, 2021																			
Page: 2 of 2		Part: 1 of 3																			
CERTIFICATE OF ANALYSIS		VAN21000043.1																			
Method Analyte Unit MDL	MA250 Mo ppm 0.05	MA250 Cu ppm 0.1	MA250 Pb ppm 0.02	MA250 Zn ppm 0.2	MA250 Ag ppb 20	MA250 Ni ppm 0.1	MA250 Co ppm 0.2	MA250 Mn ppm 1	MA250 Fe ppm 0.01	MA250 As ppm 0.2	MA250 U ppm 0.1	MA250 Th ppm 0.1	MA250 Sr ppm 1	MA250 Cd ppm 0.02	MA250 Sb ppm 0.02	MA250 Bi ppm 0.04	MA250 V ppm 1	MA250 Ca ppm 0.01	MA250 P ppm 0.001	MA250 La ppm 0.1	
SIN20-01	Soil	0.83	34.9	30.79	146.6	59	47.0	22.8	849	3.42	49.1	1.6	7.6	212	0.18	0.43	0.40	65	1.19	0.141	22.8
SIN20-02	Soil	1.13	23.2	28.03	132.2	99	54.5	19.7	651	3.53	32.0	1.5	7.2	235	0.18	0.42	0.42	76	1.25	0.052	26.6
SIN20-03	Soil	1.05	57.3	32.09	147.7	56	67.8	27.7	559	4.22	29.6	2.9	15.4	168	0.07	0.46	0.50	82	0.74	0.062	41.5
SIN20-04	Soil	0.97	42.9	31.64	136.7	72	84.9	29.9	482	4.10	52.3	1.7	8.8	136	0.09	0.34	0.49	81	0.68	0.046	30.3
SIN20-05	Soil	1.07	37.9	26.51	111.3	<20	52.8	21.0	371	3.76	28.8	1.9	10.4	110	0.04	0.36	0.42	70	0.48	0.031	30.2
SIN20-06	Soil	1.88	64.9	32.13	126.0	157	65.2	27.6	636	4.34	32.3	2.3	10.1	118	0.08	0.41	0.52	69	0.55	0.045	30.4
SIN20-07	Soil	1.15	36.8	29.11	180.1	174	38.4	19.5	1572	3.55	24.1	1.8	8.2	204	0.26	0.44	0.46	59	1.12	0.199	23.6
SIN20-08	Soil	0.46	30.0	22.61	155.9	<20	206.1	36.4	794	5.65	21.2	2.6	11.4	372	<0.02	0.53	0.22	140	1.30	0.221	59.9
SIN20-09	Soil	0.98	36.1	41.65	120.8	97	83.5	22.6	975	4.08	26.0	1.9	8.2	191	0.21	0.41	0.45	86	1.24	0.149	34.6
SIN20-10	Soil	0.98	42.1	30.75	130.2	101	64.5	22.2	418	3.90	45.8	1.8	9.3	175	0.15	0.40	0.36	78	0.91	0.087	28.7
SIN20-11	Soil	0.74	43.0	26.48	141.3	<20	93.6	22.1	408	4.10	57.3	1.8	9.2	164	0.04	0.38	0.35	94	0.88	0.076	32.4
SIN20-12	Soil	1.15	46.7	25.00	132.3	257	20.4	20.6	2379	3.37	51.4	1.7	7.8	149	0.35	0.35	0.37	62	0.95	0.176	25.6
PHONE (604) 253-3158		Page: 2 of 2		Part: 2 of 3																	
CERTIFICATE OF ANALYSIS		VAN21000043.1																			
Method Analyte Unit MDL	MA250 Cr ppm 1	MA250 Mg % 0.01	MA250 Ba ppm 1	MA250 Ti ppm 0.001	MA250 Al ppm 0.01	MA250 Na % 0.001	MA250 K % 0.01	MA250 W ppm 0.1	MA250 Zr ppm 0.2	MA250 Sn ppm 0.1	MA250 Be ppm 1	MA250 Sc ppm 0.1	MA250 S % 0.04	MA250 Y ppm 0.1	MA250 Ce ppm 0.02	MA250 Pr ppm 0.1	MA250 Nd ppm 0.1	MA250 Sm ppm 0.1	MA250 Eu ppm 0.1	MA250 Gd ppm 0.1	
SIN20-01	Soil	66	0.93	735	0.384	7.15	1.445	1.73	1.8	78.9	3.0	2	9.5	<0.04	11.2	46.89	5.6	19.3	3.3	0.9	2.6
SIN20-02	Soil	84	1.06	821	0.449	7.13	1.525	1.79	1.9	73.3	3.4	2	10.2	<0.04	12.1	64.10	6.2	22.2	4.3	0.8	3.2
SIN20-03	Soil	103	1.26	901	0.430	7.37	1.136	2.26	2.4	102.5	4.1	2	12.6	<0.04	17.4	144.91	9.3	32.2	6.5	1.1	4.9
SIN20-04	Soil	104	1.21	816	0.413	6.91	1.086	2.27	3.0	51.2	5.0	2	11.8	<0.04	12.1	64.11	6.9	23.2	4.2	0.8	3.6
SIN20-05	Soil	85	0.97	748	0.380	6.43	0.998	2.41	3.1	44.6	5.4	2	11.4	<0.04	14.1	68.49	6.8	24.4	4.7	0.8	4.2
SIN20-06	Soil	64	0.82	598	0.402	7.01	1.065	2.25	3.2	44.0	5.3	2	10.2	<0.04	14.0	73.84	6.7	25.2	4.4	0.9	3.6
SIN20-07	Soil	46	0.73	738	0.377	7.01	1.473	1.45	1.7	94.1	3.2	2	8.4	<0.04	12.1	54.86	5.6	17.6	3.6	0.7	2.9
SIN20-08	Soil	548	4.99	2023	0.637	6.86	0.987	1.19	1.6	156.4	2.7	2	20.1	<0.04	15.5	106.75	11.9	38.7	6.1	1.6	4.7
SIN20-09	Soil	191	1.99	693	0.457	6.35	1.226	1.33	1.8	94.7	2.7	2	12.8	<0.04	14.0	66.55	8.0	26.7	4.8	1.0	3.8
SIN20-10	Soil	122	1.32	794	0.406	7.07	1.294	1.64	2.0	86.5	2.8	2	11.0	<0.04	12.1	58.77	7.0	24.3	4.5	1.0	3.6
SIN20-11	Soil	204	1.75	986	0.444	6.93	1.120	1.96	2.4	66.2	3.1	2	13.0	<0.04	11.2	60.05	7.6	25.6	4.7	0.9	3.5
SIN20-12	Soil	42	0.64	473	0.333	6.34	1.183	1.44	1.8	54.5	2.3	2	9.2	<0.04	13.1	56.64	5.9	19.8	3.6	0.7	3.3
PHONE (604) 253-3158		Page: 2 of 2		Part: 3 of 3																	
CERTIFICATE OF ANALYSIS		VAN21000043.1																			
Method Analyte Unit MDL	MA250 Tb ppm 0.1	MA250 Dy ppm 0.1	MA250 Ho ppm 0.1	MA250 Er ppm 0.1	MA250 Tm ppm 0.1	MA250 Yb ppm 0.1	MA250 Lu ppm 0.1	MA250 Hf ppm 0.02	MA250 Li ppm 0.1	MA250 Rb ppm 0.1	MA250 Ta ppm 0.1	MA250 Nb ppm 0.04	MA250 Cs ppm 0.1	MA250 Ga ppm 0.02	MA250 In ppm 0.01	MA250 Re ppm 0.002	MA250 Se ppm 0.3	MA250 Te ppm 0.05	MA250 TI ppm 0.05	MA250 Hg ppm 0.01	
SIN20-01	Soil	0.4	2.4	0.4	1.2	0.2	1.1	0.2	2.07	45.0	100.1	0.7	11.22	9.5	19.44	0.07	<0.002	<0.3	0.08	0.62	0.03
SIN20-02	Soil	0.4	2.6	0.4	1.4	0.2	1.3	0.2	1.96	44.1	104.1	0.8	13.80	9.8	20.16	0.08	0.002	<0.3	<0.05	0.68	0.04
SIN20-03	Soil	0.7	4.0	0.7	1.8	0.3	1.6	0.2	2.50	37.8	115.0	0.9	15.28	10.3	19.21	0.07	<0.002	0.5	0.09	0.78	0.04
SIN20-04	Soil	0.5	2.7	0.5	1.2	0.2	1.4	0.2	1.34	42.6	139.5	0.9	15.00	12.4	19.30	0.08	<0.002	0.3	0.10	0.74	0.02
SIN20-05	Soil	0.5	2.6	0.6	1.6	0.2	1.6	0.2	1.10	34.6	150.7	0.8	14.36	11.9	16.68	0.12	<0.002	<0.3	0.12	0.78	0.02
SIN20-06	Soil	0.5	3.0	0.5	1.4	0.2	1.7	0.2	1.22	42.2	138.1	0.8	13.11	11.5	18.66	0.09	<0.002	0.5	0.06	0.77	0.02
SIN20-07	Soil	0.4	2.4	0.5	1.2	0.2	1.0	0.2	2.27	37.0	77.4	0.6	10.38	8.4	18.65	0.06	<0.002	0.3	0.07	0.60	0.05
SIN20-08	Soil	0.6	2.9	0.6	1.6	0.2	1.4	0.2	3.63	43.8	33.0	1.5	34.25	14.6	16.31	0.07	<0.002	0.3	1.17	0.59	0.03
SIN20-09	Soil	0.5	3.2	0.5	1.3	0.2	1.3	0.2	2.25	37.1	60.2	0.8	18.19	9.7	16.98	0.07	0.002	<0.3	0.20	0.56	0.04
SIN20-10	Soil	0.5	2.2	0.5	1.2	0.2	1.2	0.2	2.17	40.7	87.4	0.8	13.92	10.0	18.40	0.07	<0.002	0.3	0.07	0.62	0.03
SIN20-11	Soil	0.5	2.6	0.5	1.3	0.2	1.1	0.2	1.53	47.0	100.7	0.9	17.27	13.4	18.60	0.07	0.003	0.4	0.10	0.71	0.02
SIN20-12	Soil	0.4	2.8	0.5	1.4	0.2	1.1	0.2	1.44	28.7	78.5	0.5	8.63	8.9	16.85	0.06	<0.002	0.5	<0.05	0.60	0.05

2018 and 2020 Soil Samples – Spreadsheet Listings

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Station	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co
SIN18_001	Soil	0.9	32.7	33.0	97	0.2	27.5	14.7
SIN18_002	Soil	0.9	25.8	30.1	88	0.1	26.6	19.7
SIN18_003	Soil	0.4	29.3	21.3	107	0.1	135.8	23.6
SIN18_004	Soil	0.6	20.1	22.2	148	0.2	21.0	17.7
SIN18_005	Soil	0.4	17.4	13.8	57	0.1	17.0	11.2
SIN18_006	Soil	0.9	30.4	37.0	73	0.1	26.4	17.9
SIN18_007	Soil	0.6	95.0	20.5	65	0.1	36.5	33.5
SIN18_008	Soil	0.8	27.4	25.1	70	0.1	30.8	30.8
SIN18_009	Soil	0.7	15.4	21.3	83	0.1	22.4	14.0
SIN18_010	Soil	0.7	42.8	19.9	69	0.1	31.1	20.6
SIN18_011	Soil	1.0	18.6	24.6	70	0.1	19.1	11.3
SIN18_012	Soil	0.7	12.9	19.5	45	0.1	13.6	8.8
SIN18_013	Soil	0.8	18.1	45.1	144	0.1	25.6	21.8
SIN18_014	Soil	0.8	20.7	25.1	81	0.1	13.9	18.0
SIN18_015	Soil	1.3	27.9	26.0	54	0.1	20.7	10.6
SIN18_016	Soil	1.0	13.9	42.2	78	0.1	24.2	20.6
SIN18_017	Soil	1.0	37.5	40.2	118	0.1	33.8	16.4
SIN18_018	Soil	0.9	21.6	31.9	112	0.1	22.0	12.8
SIN18_019	Soil	1.2	16.3	22.2	53	0.1	13.5	6.9
SIN18_020	Soil	0.7	14.0	25.4	39	0.1	13.4	10.1
SIN20-01	Soil	0.83	34.9	30.79	146.6	59	47.0	22.8
SIN20-02	Soil	1.13	23.2	28.03	132.2	99	54.5	19.7
SIN20-03	Soil	1.05	57.3	32.09	147.7	56	67.8	27.7
SIN20-04	Soil	0.97	42.9	31.64	136.7	72	84.9	29.9
SIN20-05	Soil	1.07	37.9	26.51	111.3	20	52.8	21.0
SIN20-06	Soil	1.88	64.9	32.13	126.0	157	65.2	27.6
SIN20-07	Soil	1.15	36.8	29.11	180.1	174	38.4	19.5
SIN20-08	Soil	0.46	30.0	22.61	155.9	20	206.1	36.4
SIN20-09	Soil	0.98	36.1	41.65	120.8	97	83.5	22.6
SIN20-10	Soil	0.98	42.1	30.75	130.2	101	64.5	22.2
SIN20-11	Soil	0.74	43.0	26.48	141.3	20	93.6	22.1
SIN20-12	Soil	1.15	46.7	25.00	132.3	257	20.4	20.6

Station	Mn	Fe	As	Au	Th	Sr	Cd	Sb
SIN18_001	163	2.61	96.5	2.9	6.5	12	0.2	0.3
SIN18_002	180	2.84	47.8	2.5	6.6	14	0.2	0.2
SIN18_003	747	3.88	32.4	1.1	4.2	27	0.1	0.2
SIN18_004	882	2.30	22.4	0.5	6.0	34	0.3	0.1
SIN18_005	162	2.05	29.6	0.5	4.8	11	0.1	0.1
SIN18_006	178	3.17	272.1	1.1	6.3	11	0.1	0.2
SIN18_007	309	2.82	91.0	0.5	4.7	19	0.1	0.2
SIN18_008	366	2.66	25.9	0.5	7.1	16	0.2	0.2
SIN18_009	123	2.52	20.6	0.5	5.4	9	0.1	0.2
SIN18_010	115	2.47	20.8	0.5	7.2	11	0.1	0.2
SIN18_011	96	2.83	31.5	0.5	6.7	9	0.1	0.2
SIN18_012	90	2.21	17.9	0.5	3.9	14	0.1	0.2
SIN18_013	504	2.90	67.3	0.6	5.2	20	0.1	0.2
SIN18_014	895	1.88	30.4	0.5	4.3	22	0.3	0.2
SIN18_015	137	2.65	38.2	1.9	7.3	7	0.1	0.1
SIN18_016	283	3.14	190.2	0.5	8.2	14	0.1	0.2
SIN18_017	221	3.14	55.2	0.5	12.4	8	0.2	0.3
SIN18_018	250	2.89	47.3	4.7	7.1	6	0.1	0.3
SIN18_019	110	2.80	23.4	0.5	5.2	9	0.1	0.2
SIN18_020	146	2.36	25.3	0.5	6.4	7	0.1	0.1
SIN20-01	849	3.42	49.1		7.6	212	0.18	0.43
SIN20-02	651	3.53	32.0		7.2	235	0.18	0.42
SIN20-03	559	4.22	29.6		15.4	168	0.07	0.46
SIN20-04	482	4.10	52.3		8.8	136	0.09	0.34
SIN20-05	371	3.76	28.8		10.4	110	0.04	0.36
SIN20-06	636	4.34	32.3		10.1	118	0.08	0.41
SIN20-07	1572	3.55	24.1		8.2	204	0.26	0.44
SIN20-08	794	5.65	21.2		11.4	372	0.02	0.53
SIN20-09	975	4.08	26.0		8.2	191	0.21	0.41
SIN20-10	418	3.90	45.8		9.3	175	0.15	0.40
SIN20-11	408	4.10	57.3		9.2	164	0.04	0.38
SIN20-12	2379	3.37	51.4		7.8	149	0.35	0.35

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Station	Bi	V	Ca	P	La	Cr	Mg	Ba
SIN18_001	0.5	35	0.06	0.118	15	26	0.22	87
SIN18_002	0.6	42	0.09	0.036	16	29	0.34	105
SIN18_003	0.4	80	0.23	0.144	28	290	2.31	331
SIN18_004	0.5	25	0.21	0.140	17	16	0.22	217
SIN18_005	0.3	23	0.08	0.028	12	22	0.35	109
SIN18_006	0.7	32	0.12	0.023	16	22	0.33	63
SIN18_007	0.7	35	0.21	0.022	13	24	0.45	109
SIN18_008	0.7	37	0.11	0.029	12	18	0.22	136
SIN18_009	0.4	32	0.05	0.026	12	21	0.26	92
SIN18_010	0.4	34	0.07	0.052	11	23	0.23	148
SIN18_011	0.5	39	0.06	0.052	11	17	0.18	100
SIN18_012	0.4	35	0.11	0.058	7	13	0.13	93
SIN18_013	0.9	42	0.19	0.035	13	18	0.19	139
SIN18_014	0.7	32	0.22	0.071	11	14	0.15	172
SIN18_015	0.6	31	0.08	0.032	17	27	0.33	117
SIN18_016	0.7	40	0.20	0.031	20	22	0.32	120
SIN18_017	0.6	40	0.06	0.068	31	22	0.29	102
SIN18_018	0.6	39	0.05	0.031	17	19	0.27	79
SIN18_019	0.5	41	0.07	0.051	11	17	0.20	85
SIN18_020	0.5	29	0.07	0.023	13	15	0.20	86
SIN20-01	0.40	65	1.19	0.141	22.8	66	0.93	735
SIN20-02	0.42	76	1.25	0.052	26.6	84	1.06	821
SIN20-03	0.50	82	0.74	0.062	41.5	103	1.26	901
SIN20-04	0.49	81	0.68	0.046	30.3	104	1.21	816
SIN20-05	0.42	70	0.48	0.031	30.2	85	0.97	748
SIN20-06	0.52	69	0.55	0.045	30.4	64	0.82	598
SIN20-07	0.46	59	1.12	0.199	23.6	46	0.73	738
SIN20-08	0.22	140	1.30	0.221	59.9	548	4.99	2023
SIN20-09	0.45	86	1.24	0.149	34.6	191	1.99	693
SIN20-10	0.36	78	0.91	0.087	28.7	122	1.32	794
SIN20-11	0.35	94	0.88	0.076	32.4	204	1.75	986
SIN20-12	0.37	62	0.95	0.176	25.6	42	0.64	473

Station	Ti	B	Al	Na	K	W	Hg	Sc
SIN18_001	0.127	20	2.60	0.015	0.10	0.5	0.05	1.5
SIN18_002	0.129	20	2.26	0.014	0.17	0.4	0.03	2.2
SIN18_003	0.209	20	2.85	0.010	0.19	0.4	0.01	7.6
SIN18_004	0.108	20	2.22	0.017	0.14	0.4	0.03	1.8
SIN18_005	0.090	20	1.43	0.005	0.29	0.4	0.02	1.7
SIN18_006	0.100	20	1.74	0.009	0.21	1.6	0.02	1.8
SIN18_007	0.100	20	2.25	0.009	0.25	1.5	0.01	1.9
SIN18_008	0.144	20	2.71	0.019	0.12	0.4	0.04	1.9
SIN18_009	0.103	20	1.72	0.009	0.15	0.5	0.02	1.5
SIN18_010	0.134	20	3.14	0.014	0.11	0.5	0.03	2.1
SIN18_011	0.133	20	2.98	0.011	0.12	0.3	0.04	1.8
SIN18_012	0.131	20	2.59	0.014	0.09	0.3	0.03	1.2
SIN18_013	0.132	20	1.85	0.020	0.16	0.4	0.02	1.9
SIN18_014	0.139	20	2.14	0.026	0.09	0.1	0.04	1.9
SIN18_015	0.101	20	2.13	0.009	0.26	0.5	0.04	2.3
SIN18_016	0.129	20	2.15	0.011	0.24	0.4	0.03	2.0
SIN18_017	0.126	20	3.03	0.010	0.17	0.5	0.05	2.7
SIN18_018	0.103	20	1.97	0.008	0.14	1.1	0.04	2.1
SIN18_019	0.104	20	2.02	0.008	0.11	0.4	0.04	1.5
SIN18_020	0.109	20	2.39	0.013	0.14	0.3	0.02	2.0
SIN20-01	0.384		7.15	1.445	1.73	1.8	0.03	9.5
SIN20-02	0.449		7.13	1.525	1.79	1.9	0.04	10.2
SIN20-03	0.430		7.37	1.136	2.26	2.4	0.04	12.6
SIN20-04	0.413		6.91	1.086	2.27	3.0	0.02	11.8
SIN20-05	0.380		6.43	0.998	2.41	3.1	0.02	11.4
SIN20-06	0.402		7.01	1.065	2.25	3.2	0.02	10.2
SIN20-07	0.377		7.01	1.473	1.45	1.7	0.05	8.4
SIN20-08	0.637		6.86	0.987	1.19	1.6	0.03	20.1
SIN20-09	0.457		6.35	1.226	1.33	1.8	0.04	12.8
SIN20-10	0.406		7.07	1.294	1.64	2.0	0.03	11.0
SIN20-11	0.444		6.93	1.120	1.96	2.4	0.02	13.0
SIN20-12	0.333		6.34	1.183	1.44	1.8	0.06	9.2

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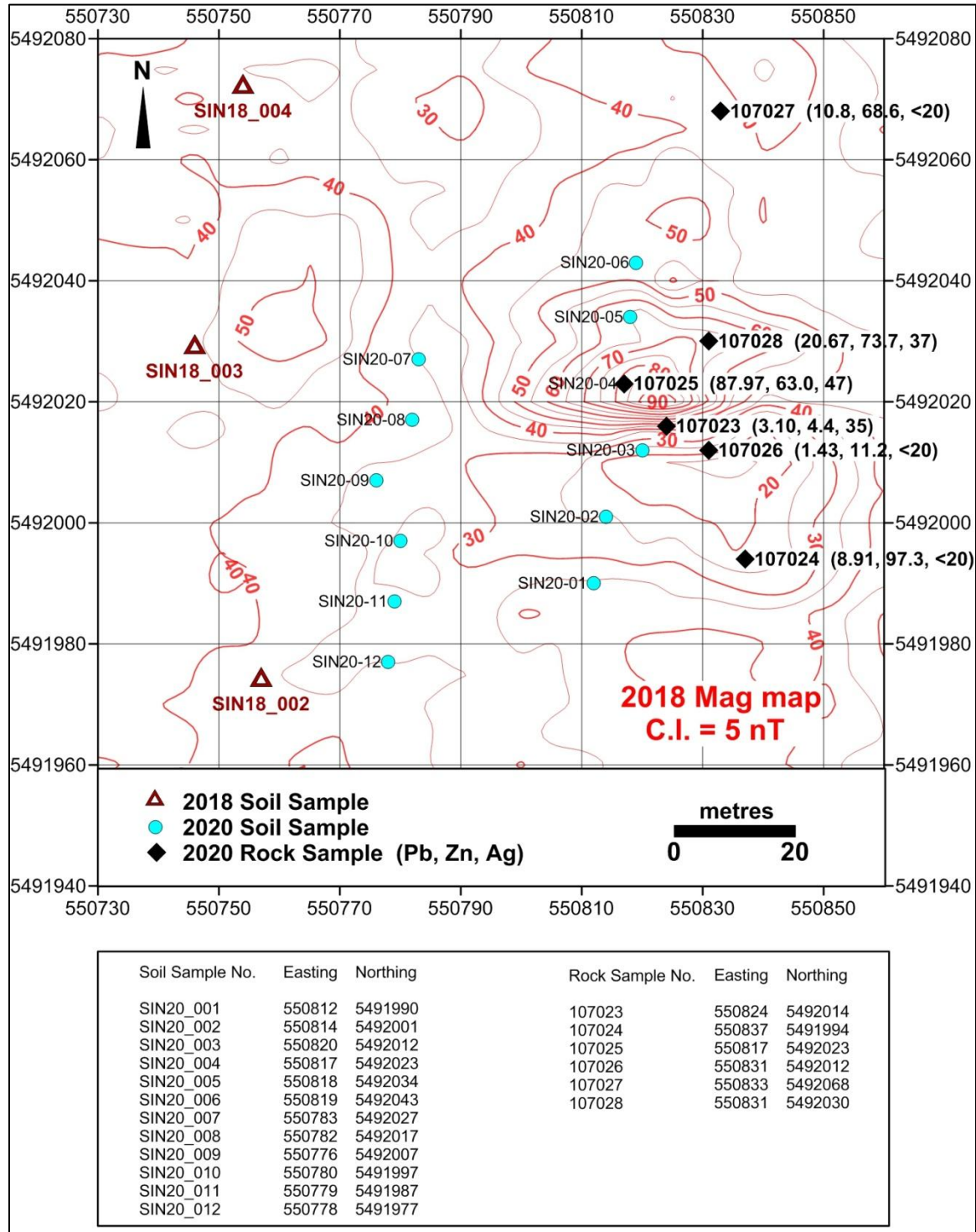
Station	Tl	S	Ga	Se	Te	Zr	Sn	Be
SIN18_001	0.2	0.05	8	0.5	0.2			
SIN18_002	0.3	0.05	8	0.5	0.2			
SIN18_003	0.4	0.05	11	0.5	0.2			
SIN18_004	0.3	0.05	8	0.5	0.2			
SIN18_005	0.3	0.05	4	0.5	0.2			
SIN18_006	0.3	0.05	7	0.5	0.2			
SIN18_007	0.3	0.05	6	0.5	0.2			
SIN18_008	0.2	0.05	9	0.5	0.2			
SIN18_009	0.2	0.05	7	0.5	0.2			
SIN18_010	0.2	0.05	9	0.5	0.2			
SIN18_011	0.2	0.05	11	0.5	0.2			
SIN18_012	0.1	0.05	10	0.5	0.2			
SIN18_013	0.2	0.05	11	0.5	0.2			
SIN18_014	0.2	0.05	9	0.5	0.2			
SIN18_015	0.3	0.05	7	0.5	0.2			
SIN18_016	0.3	0.05	9	0.5	0.2			
SIN18_017	0.3	0.05	9	0.5	0.2			
SIN18_018	0.3	0.05	8	0.5	0.2			
SIN18_019	0.2	0.05	10	0.5	0.2			
SIN18_020	0.2	0.05	7	0.5	0.2			
SIN20-01	0.62	0.04	19.44	0.3	0.08	78.9	3.0	2
SIN20-02	0.68	0.04	20.16	0.3	0.05	73.3	3.4	2
SIN20-03	0.78	0.04	19.21	0.5	0.09	102.5	4.1	2
SIN20-04	0.74	0.04	19.30	0.3	0.10	51.2	5.0	2
SIN20-05	0.78	0.04	16.68	0.3	0.12	44.6	5.4	2
SIN20-06	0.77	0.04	18.66	0.5	0.06	44.0	5.3	2
SIN20-07	0.60	0.04	18.65	0.3	0.07	94.1	3.2	2
SIN20-08	0.59	0.04	16.31	0.3	1.17	156.4	2.7	2
SIN20-09	0.56	0.04	16.98	0.3	0.20	94.7	2.7	2
SIN20-10	0.62	0.04	18.40	0.3	0.07	86.5	2.8	2
SIN20-11	0.71	0.04	18.60	0.4	0.10	66.2	3.1	2
SIN20-12	0.60	0.04	16.85	0.5	0.05	54.5	2.3	2

Station	Y	Ce	Pr	Nd	Sm	Eu	Gd	Tb
SIN20-01	11.2	46.89	5.6	19.3	3.3	0.9	2.6	0.4
SIN20-02	12.1	64.10	6.2	22.2	4.3	0.8	3.2	0.4
SIN20-03	17.4	144.91	9.3	32.2	6.5	1.1	4.9	0.7
SIN20-04	12.1	64.11	6.9	23.2	4.2	0.8	3.6	0.5
SIN20-05	14.1	68.49	6.8	24.4	4.7	0.8	4.2	0.5
SIN20-06	14.0	73.84	6.7	25.2	4.4	0.9	3.6	0.5
SIN20-07	12.1	54.86	5.6	17.6	3.6	0.7	2.9	0.4
SIN20-08	15.5	106.75	11.9	38.7	6.1	1.6	4.7	0.6
SIN20-09	14.0	66.55	8.0	26.7	4.8	1.0	3.8	0.5
SIN20-10	12.1	58.77	7.0	24.3	4.5	1.0	3.6	0.5
SIN20-11	11.2	60.05	7.6	25.6	4.7	0.9	3.5	0.5
SIN20-12	13.1	56.64	5.9	19.8	3.6	0.7	3.3	0.4

Station	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li
SIN20-01	2.4	0.4	1.2	0.2	1.1	0.2	2.07	45.0
SIN20-02	2.6	0.4	1.4	0.2	1.3	0.2	1.96	44.1
SIN20-03	4.0	0.7	1.8	0.3	1.6	0.2	2.50	37.8
SIN20-04	2.7	0.5	1.2	0.2	1.4	0.2	1.34	42.6
SIN20-05	2.6	0.6	1.6	0.2	1.6	0.2	1.10	34.6
SIN20-06	3.0	0.5	1.4	0.2	1.7	0.2	1.22	42.2
SIN20-07	2.4	0.5	1.2	0.2	1.0	0.2	2.27	37.0
SIN20-08	2.9	0.6	1.6	0.2	1.4	0.2	3.63	43.8
SIN20-09	3.2	0.5	1.3	0.2	1.3	0.2	2.25	37.1
SIN20-10	2.2	0.5	1.2	0.2	1.2	0.2	2.17	40.7
SIN20-11	2.6	0.5	1.3	0.2	1.1	0.2	1.53	47.0
SIN20-12	2.8	0.5	1.4	0.2	1.1	0.2	1.44	28.7

Station	Rb	Ta	Nb	Cs	In	Re	U
SIN20-01	100.1	0.7	11.22	9.5	0.07	0.002	1.6
SIN20-02	104.1	0.8	13.80	9.8	0.08	0.002	1.5
SIN20-03	115.0	0.9	15.28	10.3	0.07	0.002	2.9
SIN20-04	139.5	0.9	15.00	12.4	0.08	0.002	1.7
SIN20-05	150.7	0.8	14.36	11.9	0.12	0.002	1.9
SIN20-06	138.1	0.8	13.11	11.5	0.09	0.002	2.3
SIN20-07	77.4	0.6	10.38	8.4	0.06	0.002	1.8
SIN20-08	33.0	1.5	34.25	14.6	0.07	0.002	2.6
SIN20-09	60.2	0.8	18.19	9.7	0.07	0.002	1.9
SIN20-10	87.4	0.8	13.92	10.0	0.07	0.002	1.8
SIN20-11	100.7	0.9	17.27	13.4	0.07	0.003	1.8
SIN20-12	78.5	0.5	8.63	8.9	0.06	0.002	1.7

2020 Rock Sample Location Map - Geochemistry Values for Pb (ppm), Zn (ppm), and Ag (ppb)



Appendix 6. Magnetic susceptibility measurements

Year	Station	Mag Susc e Fm	Lith
2020	1070	0.127 M.A.	QW, m-Tk; W, SW - lamd
2020	1070	0.094 M.A.	QW, m-Tk; W, SW - lamd
2020	1070	0.199 M.A.	QW, m-Tk; W, SW - lamd
2020	1071	0.156 M.A.	QW, m-Tk
2020	1071	0.129 M.A.	QW, m-Tk
2020	1071	0.064 M.A.	QW, m-Tk
2020	1072	0.227 M.A.	W, SW - lamd, rust weath.
2020	1072	0.156 M.A.	W, SW - lamd, rust weath.
2020	1072	0.259 M.A.	QW
2020	1072	0.148 M.A.	QW
2020	1074	0.178 M.A.	
2020	1074	0.089 M.A.	Q
2020	1074	0.168 M.A.	W, SW - lamd
2020	1074	0.086 M.A.	Q
2020	1074	0.148 M.A.	W, SW - lamd
2020	1074	0.096 M.A.	Q
2020	1076	0.103 M.A.	QW - Tk
2020	1076	0.021 M.A.	QW - Tk
2020	1076	0.087 M.A.	QW - Tk
2020	1076	0.176 M.A.	QW - Tk
2020	1076	0.203 M.A.	QW - Tk
2020	1076	0.166 M.A.	QW - Tk
2020	1077	0.173 M.A.	QW - Tk
2020	1077	0.150 M.A.	QW - Tk
2020	1077	0.091 M.A.	QW - Tk
2020	1077	0.098 M.A.	QW - Tk
2020	1077	0.051 M.A.	QW - Tk
2020	1077	0.143 M.A.	QW - Tk
2020	1077	0.091 M.A.	QW - Tk
2020	1077	0.058 M.A.	QW - Tk
2020	1077	0.038 M.A.	QW - Tk
2020	1095	0.210 M.A.	W, rust weath, QW - predom mb, some lamd intervals. Start a few m S of mag anomaly centre line with readings
2020	1095	0.178 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.161 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.172 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.223 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.214 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.502 M.A.	W, rust weath, QW - predom mb, + lamd intervals. Num joints
2020	1095	0.729 M.A.	W, rust weath, QW - predom mb, + lamd intervals. Num joints
2020	1095	0.582 M.A.	W, rust weath, QW - predom mb, + lamd intervals. Num joints
2020	1095	0.172 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.238 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.177 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.179 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.156 M.A.	W, rust weath, QW - predom mb, some lamd intervals.

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Year	Station	Susc Fm	Lithology
2020	1095	0.206 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.180 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.178 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.172 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.238 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.242 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.450 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.290 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.651 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.184 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.156 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.196 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.234 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.181 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.164 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.129 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.184 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.150 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.178 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.216 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.104 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.092 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.097 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.117 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.175 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.157 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.159 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.143 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.197 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.207 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.215 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.173 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.199 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.229 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.175 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.220 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1095	0.138 M.A.	W, rust weath, QW - predom mb, some lamd intervals.
2020	1097	0.472 M.A.	QW with sparse Pyrrhotite, dark rust on fractures and weathered
2020	1097	0.135 M.A.	W, lt br rusty weath, biotitic, + scatt oxidized spots. Annealed Q
2020	1098	0.098 M.A.	Stump-up, all readings on rubble blocks over 6 metre zone near
2020	1098	0.103 M.A.	Stump-up, all readings on rubble blocks over 6 metre zone near
2020	1098	0.141 M.A.	Stump-up, all readings on rubble blocks over 6 metre zone near
2020	1098	0.708 M.A.	Stump-up, all readings on rubble blocks over 6 metre zone near centre line of mag anomaly. Broke to expose opposite side,
2020	1098	0.273 M.A.	Stump-up, all readings on rubble blocks over 6 metre zone near
2020	1099	0.199 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1099	0.203 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.

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Year	Station	Susc Fm	Lithology
2020	1099	0.140 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1099	1.550 M.A.	Stump-up near centre line of mag anomaly, all angular blocks. Mafic boulder 25x25x50 cm, with lithic fragments to 19 cm. One This and two following pieces were from 1 block. SW, 10% Q layers, lamd, one ripple cross lamd, Q layers pitted so most likely
2020	1099	0.618 M.A.	Stump-up near centre line of mag anomaly, all angular blocks. SW, 10% Q layers, lamd, one ripple cross lamd, Q layers pitted so most likely contained Pyrrhotite. What appear to be white
2020	1099	0.373 M.A.	Stump-up near centre line of mag anomaly, all angular blocks. SW, 10% Q layers, lamd, one ripple cross lamd, Q layers pitted so most likely contained Pyrrhotite. What appear to be white
2020	1099	0.212 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1099	0.338 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1099	0.219 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1100	0.244 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1100	0.139 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1100	0.067 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1100	0.170 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1100	0.141 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1100	0.183 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1100	0.089 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1100	0.273 M.A.	Stump-up near centre line of mag anomaly, all angular blocks.
2020	1100	0.450 M.A.	Stump-up near centre line of mag anomaly, all angular blocks. Mafic boulder 25x25x50 cm, with lithic fragments to 19 cm. One
2020	1101	0.197 M.A.	Small pit dug 2 m deep below stump-up, all angular blocks,
2020	1101	0.176 M.A.	Small pit dug 2 m deep below stump-up, all angular blocks,
2020	1101	0.080 M.A.	Small pit dug 2 m deep below stump-up, all angular blocks,
2020	1101	0.142 M.A.	Small pit dug 2 m deep below stump-up, all angular blocks,
2020	1101	0.130 M.A.	Small pit dug 2 m deep below stump-up, all angular blocks,
2020	1101	0.072 M.A.	Small pit dug 2 m deep below stump-up, all angular blocks,
2020	1101	0.125 M.A.	Small pit dug 2 m deep below stump-up, all angular blocks,
2020	1102	0.209 M.A.	Small stump-up 5 m N and 7 m down slope from 20-101. Angular
2020	1102	0.219 M.A.	Small stump-up 5 m N and 7 m down slope from 20-101. Angular
2020	1102	0.144 M.A.	Small stump-up 5 m N and 7 m down slope from 20-101. Angular
2020	1102	0.159 M.A.	Small stump-up 5 m N and 7 m down slope from 20-101. Angular
2020	1102	0.145 M.A.	Same small stump-up 6.5 m N and 8.5 m down slope from 20-
2020	1102	0.049 M.A.	Same small stump-up 6.5 m N and 8.5 m down slope from 20-
2020	1102	0.178 M.A.	Same small stump-up 6.5 m N and 8.5 m down slope from 20-
2020	1102	0.098 M.A.	Same small stump-up 6.5 m N and 8.5 m down slope from 20-
2020	1102	0.083 M.A.	Same small stump-up 6.5 m N and 8.5 m down slope from 20-
2020	1102	0.073 M.A.	Same small stump-up 6.5 m N and 8.5 m down slope from 20-
2020	1102	0.106 M.A.	Same small stump-up 6.5 m N and 8.5 m down slope from 20-
2020	1103	0.257 M.A.	Big block, possible outcrop.
2020	1103	0.112 M.A.	Big block, possible outcrop.
2020	1103	0.063 M.A.	Big block, possible outcrop.
2021	1126	0.119 M.A.	W, dk grey, tnb-lamd.
2021	1126	0.148 M.A.	W, dk grey, tnb-lamd.

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Year	Station	Susc Fm	Lithology
2021	1126	0.143 M.A.	W, dk grey, tnb-lamd.
2021	1126	0.067 M.A.	W, dk grey, tnb-lamd.
2021	1126	0.149 M.A.	W, dk grey, tnb-lamd.
2021	1126	0.074 M.A.	W, dk grey, tnb-lamd.
2021	1127	0.119 M.A.	QA, well cleaved.
2021	1127	0.075 M.A.	QA, well cleaved.
2021	1127	0.089 M.A.	QA, well cleaved.
2021	1127	0.051 M.A.	QA, well cleaved.
2021	1127	0.130 M.A.	QA, well cleaved.
2021	1127	0.191 M.A.	W, lamd - tnb
2021	1127	0.209 M.A.	W, lamd - tnb
2021	1127	0.185 M.A.	W, lamd - tnb
2021	1127	0.168 M.A.	W, lamd - tnb
2021	1127	0.245 M.A.	W, lamd - tnb
2021	1127	0.197 M.A.	W, lamd - tnb
2021	1128	0.081 M.A.	QW/W, m-Tk, W/SW/A tops
2021	1128	0.187 M.A.	QW/W, m-Tk, W/SW/A tops
2021	1128	0.096 M.A.	QW/W, m-Tk, W/SW/A tops
2021	1128	0.162 M.A.	QW/W, m-Tk, W/SW/A tops
2021	1128	0.172 M.A.	QW/W, m-Tk, W/SW/A tops
2021	1128	0.057 M.A.	QW/W, m-Tk, W/SW/A tops
2021	1128	0.102 M.A.	QW/W, m-Tk, W/SW/A tops
2021	1128	0.020 M.A.	QW/W, m-Tk, W/SW/A tops
2021	1128	0.105 M.A.	QW/W, m-Tk, W/SW/A tops
2021	1128	0.060 M.A.	QW/W, m-Tk, W/SW/A tops
2021	1128	0.226 M.A.	Cwl
2021	1129	0.076 M.A.	From E to W. QW
2021	1129	0.086 M.A.	QW
2021	1129	0.080 M.A.	QW
2021	1129	0.115 M.A.	W/SW/A
2021	1129	0.196 M.A.	W/SW/A
2021	1129	0.270 M.A.	W/SW/A
2021	1129	0.110 M.A.	W/SW/A
2021	1129	0.193 M.A.	W/SW/A
2021	1129	0.078 M.A.	QW/QA + W/SW/A
2021	1129	0.075 M.A.	QW/QA + W/SW/A
2021	1129	0.115 M.A.	QW/QA + W/SW/A
2021	1129	0.117 M.A.	QW/QA + W/SW/A
2021	1129	0.186 M.A.	QW/QA + W/SW/A
2021	1133	0.110 M.A.	QW, mb
2021	1133	0.142 M.A.	QW, mb
2021	1133	0.139 M.A.	QW, mb
2021	1135	0.153 M.A.	One m W/SW tnb-lamd above 1m QW (The 3 highs maybe the gabbro and this is contact zone??, as QW should be low, did not
2021	1135	0.180 M.A.	One m W/SW tnb-lamd above 1m QW (The 3 highs maybe the gabbro and this is contact zone??, as QW should be low, did not

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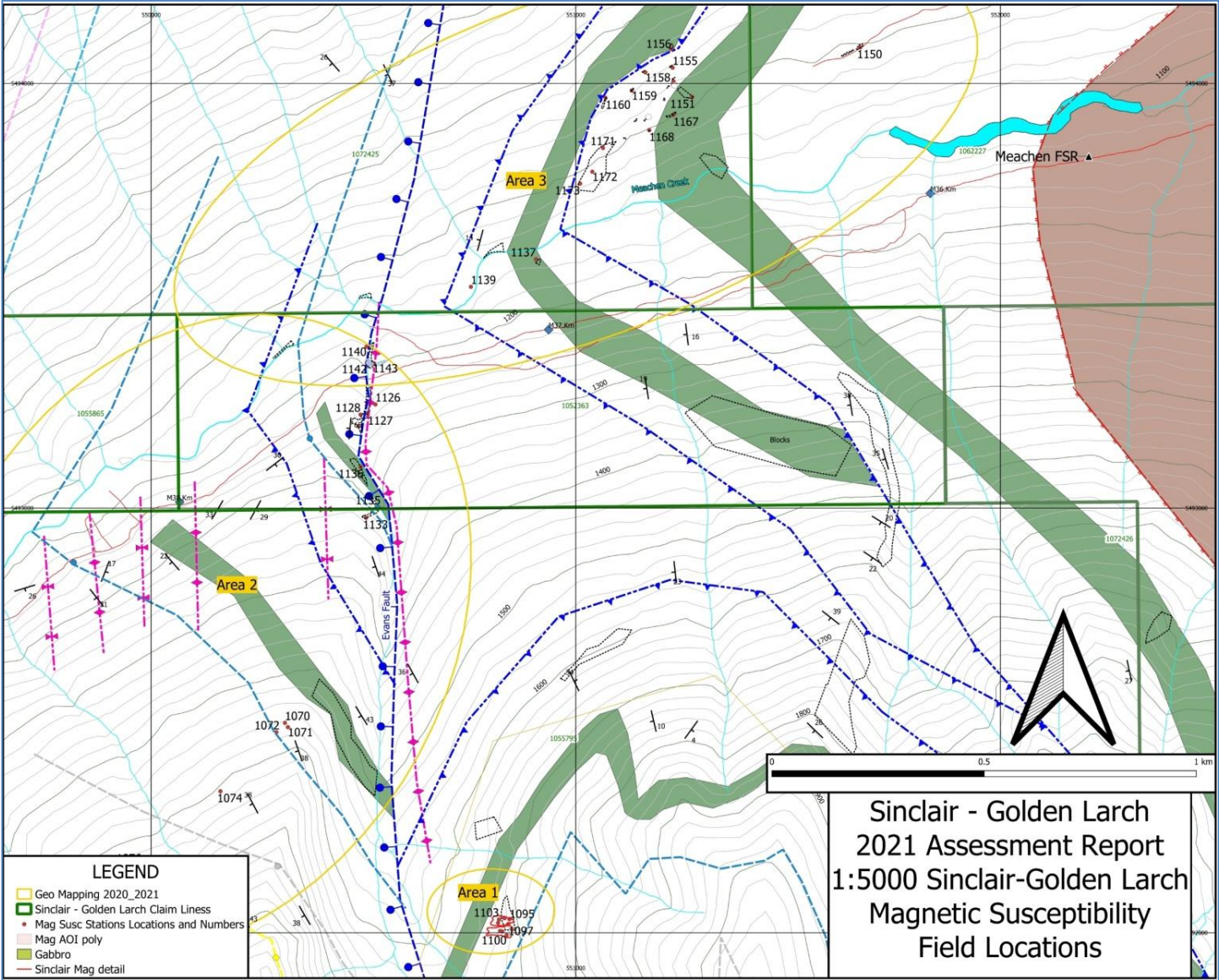
Year	Station	Susc Fm	Lithology
2021	1135	0.235 M.A.	One m W/SW tnb-lamd above 1m QW (The 3 highs maybe the gabbro and this is contact zone??, as QW should be low, did not
2021	1135	0.289 M.A.	One m W/SW tnb-lamd above 1m QW (The 3 highs maybe the gabbro and this is contact zone??, as QW should be low, did not
2021	1135	0.233 M.A.	One m W/SW tnb-lamd above 1m QW (The 3 highs maybe the gabbro and this is contact zone??, as QW should be low, did not
2021	1136	0.387 M.A.	Gabbro, massive, V rust weath, f or vfg, grey.
2021	1136	0.660 M.A.	Gabbro, massive, V rust weath, f or vfg, grey.
2021	1136	0.432 M.A.	Gabbro, massive, V rust weath, f or vfg, grey.
2021	1136	1.410 M.A.	Gabbro, massive, V rust weath, f or vfg, grey.
2021	1136	1.720 M.A.	Gabbro, massive, V rust weath, f or vfg, grey.
2021	1136	0.825 M.A.	Gabbro, massive, V rust weath, f or vfg, grey.
2021	1136	0.602 M.A.	Gabbro, massive, V rust weath, f or vfg, grey.
2021	1136	0.670 M.A.	Gabbro, massive, V rust weath, f or vfg, grey.
2021	1136	0.566 M.A.	Gabbro, massive, V rust weath, f or vfg, grey.
2021	1137	0.203 M.A.	Area of large gabbro ocs? 3x5 m area, similar joint trends over 4
2021	1137	0.313 M.A.	Area of large gabbro ocs? 3x5 m area, similar joint trends over 4
2021	1137	0.181 M.A.	Area of large gabbro ocs? 3x5 m area, similar joint trends over 4
2021	1139	0.016 M.A.	2x3 m QA block at bottom of slide.
2021	1139	0.032 M.A.	2x3 m QA block at bottom of slide.
2021	1140	0.660 M.A.	W, fracture surface with rusty patches.
2021	1140	0.131 M.A.	W
2021	1140	0.141 M.A.	W
2021	1141	0.323 M.A.	QW, Tk, grey, fracture surface.
2021	1141	0.118 M.A.	QW, Tk, grey
2021	1141	0.115 M.A.	QW, Tk, grey
2021	1141	0.116 M.A.	QW, Tk, grey
2021	1141	0.939 M.A.	QW, Tk, grey, tnb zone at very top.
2021	1141	0.773 M.A.	QW, Tk, grey, tnb zone at very top.
2021	1141	0.601 M.A.	QW, Tk, grey, tnb zone at very top.
2021	1142	0.216 M.A.	W, grey, lamd, Fringe ML Readings across 1 m.
2021	1142	0.212 M.A.	W, grey, lamd, Fringe ML Readings across 1 m.
2021	1142	0.154 M.A.	W, grey, lamd, Fringe ML Readings across 1 m.
2021	1143	0.163 M.A.	QW,W , m-Tk, light rust weath. Readings across 1 m.
2021	1143	0.143 M.A.	QW,W , m-Tk, light rust weath. Readings across 1 m.
2021	1143	0.093 M.A.	QW,W , m-Tk, light rust weath. Readings across 1 m.
2021	1143	0.132 M.A.	QW,W , m-Tk, light rust weath. Readings across 1 m.
2021	1150	0.111 M.A.	QA, lt grey, VTK, some lams, rare tnb and lams.
2021	1150	0.103 M.A.	QA, lt grey, VTK, some lams, rare tnb and lams.
2021	1150	0.122 M.A.	QA, lt grey, VTK, some lams, rare tnb and lams.
2021	1150	0.100 M.A.	QA, lt grey, VTK, some lams, rare tnb and lams.
2021	1150	0.079 M.A.	QA, lt grey, VTK, some lams, rare tnb and lams.
2021	1151	0.333 M.A.	m-cg gabbro. Readings over 5 m.
2021	1151	0.478 M.A.	m-cg gabbro. Readings over 5 m.
2021	1151	0.399 M.A.	m-cg gabbro. Readings over 5 m.
2021	1151	0.372 M.A.	m-cg gabbro. Readings over 5 m.
2021	1151	0.537 M.A.	m-cg gabbro. Readings over 5 m.

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Year	Station	Susc Fm	Lithology
2021	1152	0.073 M.A.	WQW, within 20 m of gab, m gy, mb, well lamd interbeds. Patchy
2021	1152	0.338 M.A.	WQW, within 20 m of gab, m gy, mb, well lamd interbeds. Patchy
2021	1152	0.678 M.A.	WQW, within 20 m of gab, m gy, mb, well lamd interbeds. Patchy
2021	1152	0.544 M.A.	WQW, within 20 m of gab, m gy, mb, well lamd interbeds. Patchy
2021	1152	0.187 M.A.	WQW, within 20 m of gab, m gy, mb, well lamd interbeds. Patchy
2021	1154	0.074 M.A.	QW, Tk, lams at base..
2021	1154	0.117 M.A.	QW, Tk, lams at base..
2021	1154	0.144 M.A.	QW, Tk, lams at base..
2021	1154	0.082 M.A.	QW, Tk, lams at base..
2021	1154	0.166 M.A.	QW, Tk, lams at base..
2021	1155	0.223 M.A.	QA/QW. Tk, lt-m grey. 3 m strat.
2021	1155	0.157 M.A.	QA/QW. Tk, lt-m grey. 3 m strat.
2021	1155	0.159 M.A.	QA/QW. Tk, lt-m grey. 3 m strat.
2021	1155	0.097 M.A.	QA/QW. Tk, lt-m grey. 3 m strat.
2021	1155	0.103 M.A.	QA/QW. Tk, lt-m grey. 3 m strat.
2021	1155	0.119 M.A.	QA/QW. Tk, lt-m grey. 3 m strat.
2021	1155	0.145 M.A.	QA/QW. Tk, lt-m grey. 3 m strat.
2021	1155	0.113 M.A.	QA/QW. Tk, lt-m grey. 3 m strat.
2021	1156	0.396 M.A.	Gabbro, fg.
2021	1156	0.389 M.A.	Gabbro, fg.
2021	1156	0.514 M.A.	Gabbro, fg.
2021	1156	0.523 M.A.	Gabbro, fg.
2021	1156	0.433 M.A.	Gabbro, fg.
2021	1156	0.343 M.A.	Gabbro, fg.
2021	1158	0.122 M.A.	QA, m-Tk, sparse lamd zoned between beds.
2021	1158	0.090 M.A.	QA, m-Tk, sparse lamd zoned between beds.
2021	1158	0.177 M.A.	QA, m-Tk, sparse lamd zoned between beds.
2021	1158	0.153 M.A.	QA, m-Tk, sparse lamd zoned between beds.
2021	1158	0.041 M.A.	QA, m-Tk, sparse lamd zoned between beds.
2021	1158	0.045 M.A.	QA, m-Tk, sparse lamd zoned between beds.
2021	1158	0.075 M.A.	QA, m-Tk, sparse lamd zoned between beds.
2021	1158	0.139 M.A.	QA, m-Tk, sparse lamd zoned between beds.
2021	1159	0.236 M.A.	QAW, Tk, xsparse discontinuous lams.
2021	1159	0.289 M.A.	QAW, Tk, xsparse discontinuous lams.
2021	1159	0.179 M.A.	QAW, Tk, xsparse discontinuous lams.
2021	1159	0.251 M.A.	5 cm CWL
2021	1159	0.111 M.A.	QAW, Tk, xsparse discontinuous lams.
2021	1159	0.122 M.A.	QAW, Tk, xsparse discontinuous lams.
2021	1159	0.126 M.A.	QAW, Tk, xsparse discontinuous lams.
2021	1159	0.184 M.A.	QAW, Tk, xsparse discontinuous lams.
2021	1159	0.109 M.A.	QAW, Tk, xsparse discontinuous lams.
2021	1160	0.136 M.A.	QW/QA, Tk, m-lt grey, localized mud chip bxs of pale clasts in
2021	1160	0.078 M.A.	QW/QA, Tk, m-lt grey, localized mud chip bxs of pale clasts in
2021	1160	0.129 M.A.	QW/QA, Tk, m-lt grey, localized mud chip bxs of pale clasts in
2021	1160	0.069 M.A.	QW/QA, Tk, m-lt grey, localized mud chip bxs of pale clasts in
2021	1160	0.055 M.A.	QW/QA, Tk, m-lt grey, localized mud chip bxs of pale clasts in
2021	1160	0.151 M.A.	QW/QA, Tk, m-lt grey, localized mud chip bxs of pale clasts in

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Year	Station	Susc Fm	Lithology
2021	1167	0.568 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.335 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.570 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.608 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.449 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.385 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.617 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.458 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.527 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.514 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.441 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.539 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.526 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.554 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.517 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.599 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1167	0.415 M.A.	Gabbro, extension of 151. m-fg. Readings 0.5 to 1 m spaced.
2021	1168	0.138 M.A.	QW, m-Tk.
2021	1168	0.074 M.A.	QW, m-Tk.
2021	1168	0.080 M.A.	QW, m-Tk.
2021	1168	0.134 M.A.	QW, m-Tk.
2021	1168	0.148 M.A.	QW, m-Tk.
2021	1168	0.113 M.A.	QW, m-Tk.
2021	1171	0.183 M.A.	10-20 cm spaced readings across selected section of Very large oc area, W, bedding not always distinct, m grey, some rusting,
2021	1171	0.096 M.A.	10-20 cm spaced readings across selected section of Very large oc area, W, bedding not always distinct, m grey, some rusting,
2021	1171	0.236 M.A.	10-20 cm spaced readings across selected section of Very large oc area, W, bedding not always distinct, m grey, some rusting,
2021	1171	0.141 M.A.	10-20 cm spaced readings across selected section of Very large oc area, W, bedding not always distinct, m grey, some rusting,
2021	1171	0.103 M.A.	10-20 cm spaced readings across selected section of Very large oc area, W, bedding not always distinct, m grey, some rusting,
2021	1171	0.186 M.A.	10-20 cm spaced readings across selected section of Very large oc area, W, bedding not always distinct, m grey, some rusting,
2021	1171	0.229 M.A.	10-20 cm spaced readings across selected section of Very large oc area, W, bedding not always distinct, m grey, some rusting,
2021	1171	0.264 M.A.	10-20 cm spaced readings across selected section of Very large oc area, W, bedding not always distinct, m grey, some rusting,
2021	1172	0.086 M.A.	Oc expands to SW. Readings over 2 m.
2021	1172	0.187 M.A.	Oc expands to SW. Readings over 2 m.
2021	1172	0.125 M.A.	Oc expands to SW. Readings over 2 m.
2021	1172	0.126 M.A.	Oc expands to SW. Readings over 2 m.
2021	1172	0.318 M.A.	Oc expands to SW. Readings over 2 m. CWL.
2021	1172	0.106 M.A.	Oc expands to SW. Readings over 2 m.
2021	1173	0.197 M.A.	CWL, poss Marker. 40-50 cm. V rusty weath.
2021	1173	0.156 M.A.	CWL, poss Marker. 40-50 cm. V rusty weath.
2021	1173	0.293 M.A.	CWL, poss Marker. 40-50 cm. V rusty weath.
2021	1173	0.065 M.A.	W
2021	1173	0.109 M.A.	W
2021	1173	0.153 M.A.	W
2021	1173	0.235 M.A.	CWL 15 cm.
2021	1173	0.137 M.A.	W.



Appendix 7 Gravity Meter Notes, Observed Gravity, and ITC spreadsheets

Sep 7

90101	0 0 0 0 1 1 1 1 2 1
102	0 1 0 0 1 0 0 2 2 2
103	1 1 1 1 2 3 2 4 4 2
104	1 1 2 2 2 4 2 5 3 2
105	1 1 1 0 3 2 5 3 2 3
106	0 0 0 0 4 4 0 0 4 0
107	2 1 3 0 1 4 4 3 4 2

BASE 106 N54944239 5518269 126206

908102	0 1 0 2 2 3 7 5 3 2
102	0 0 1 3 8 3 1 7 6 4
103	1 1 3 2 2 5 5 1 7 6
104	1 0 0 0 3 2 4 3 2 2
105	1 2 0 1 3 5 1 0 1 0 3 9
106	2 1 1 1 1 8 1 8 1 4 2 4
107	0 2 4 4 5 1 4 1 6 1 0 8 1 4
108	0 0 2 3 0 1 5 2 0 5 1 5 2 0
109	0 3 0 2 3 8 6 1 0 8 4
110	2 3 1 2 8 1 0 8 8 1 2 8
111	1 2 2 4 3 8 1 2 8 1 4 1 4
112	0 2 0 2 8 1 2 1 2 6 1 6 1 6

SINCLAIR Sept 7, 21 T. Sauter

HERITAGE

8:10	BASE	4232.31
11:25	907101	4188.60
11:35	7102	4186.59
11:50	7103	4180.90
12:10	7104	4174.16
13:10	101R	4188.54
14:45	6001R	4175.52
15:20	7105	4164.22
15:35	7106 #	4160.75 TO BE A BASE #
16:25	7107	4185.95
17:55	BASE	4232.22

Wed Sep 8

HERITAGE BASE

BASE	8:05	4232.11
7106R	9:50	4160.72
8101	10:50	4166.73
8102	11:15	4165.08
8103	11:30	4150.19
8104	11:50	4144.55
8105	12:05	4134.41
8106	12:25	4124.53
8107	13:10	4118.84
8108	14:55	4145.34 H-241 Repeat rec.
8109	16:20	4142.64
8110	15:25	4132.50
8111	15:42	4124.02
8112	15:50	4117.72
7106R	16:50	4160.61
BASE	18:40	4232.01

cleared upper 350m of lower Evans Creek trail from '94 UTEM.

UPPER BASE FOR FINAL DAY: Sep 25

55182695 5494423.94 1262.06

HERITAGE

BASE	8:35	4230.46
7106/101	10:10	4159.09
101	11:35	4128.66 1434 815 8 12 6 8
103	12:15	4109.63 1331 3 8 14 8 8 14
104	12:41	4095.92 1432 16 12 4 14 10 6
105	14:03	4170.35 0000 0 5 5 0 7 7
7106	14:20	4159.09
BASE	16:05	4230.44
	16:08	4230.47

Fri Sept. 10/21 GRAVITY Ted Richard

HERITAGE ~~BASE~~ ITC Jake

BASE	7:15	4231.74
10101	9:05	4063.26 1010 7 5 2 3 4 4
10102	9:35	4016.30 0011 2 3 2 4 4 2
10103	9:50	4042.81 1002 0 6 5 10 12 12
10104	10:40	4058.74 2142 5 2 2 10 14 7
10105	11:00	4061.10 1110 2 3 2 4 8 3
10106	11:20	4064.98 0000 0 0 0 0 0 0
10107	11:35	4064.78 1313 2 1 2 1 4 1 2 4 4
10108	12:00	4067.03 4224 8 8 10 1 2 2 0 8
10109	12:23	4074.85 2234 2 6 1 4 5 1 8 2 0
10110	12:45	4080.28 8410 4 1 6 2 5 1 2 2 5 1 2
10111	13:16	4087.77 1122 3 7 1 2 1 0 5 1 2
10112	13:51	4077.66 0210 2 2 3 3 8 1 0 5
BASE	18:35	4231.71

Observed Gravity Calculations

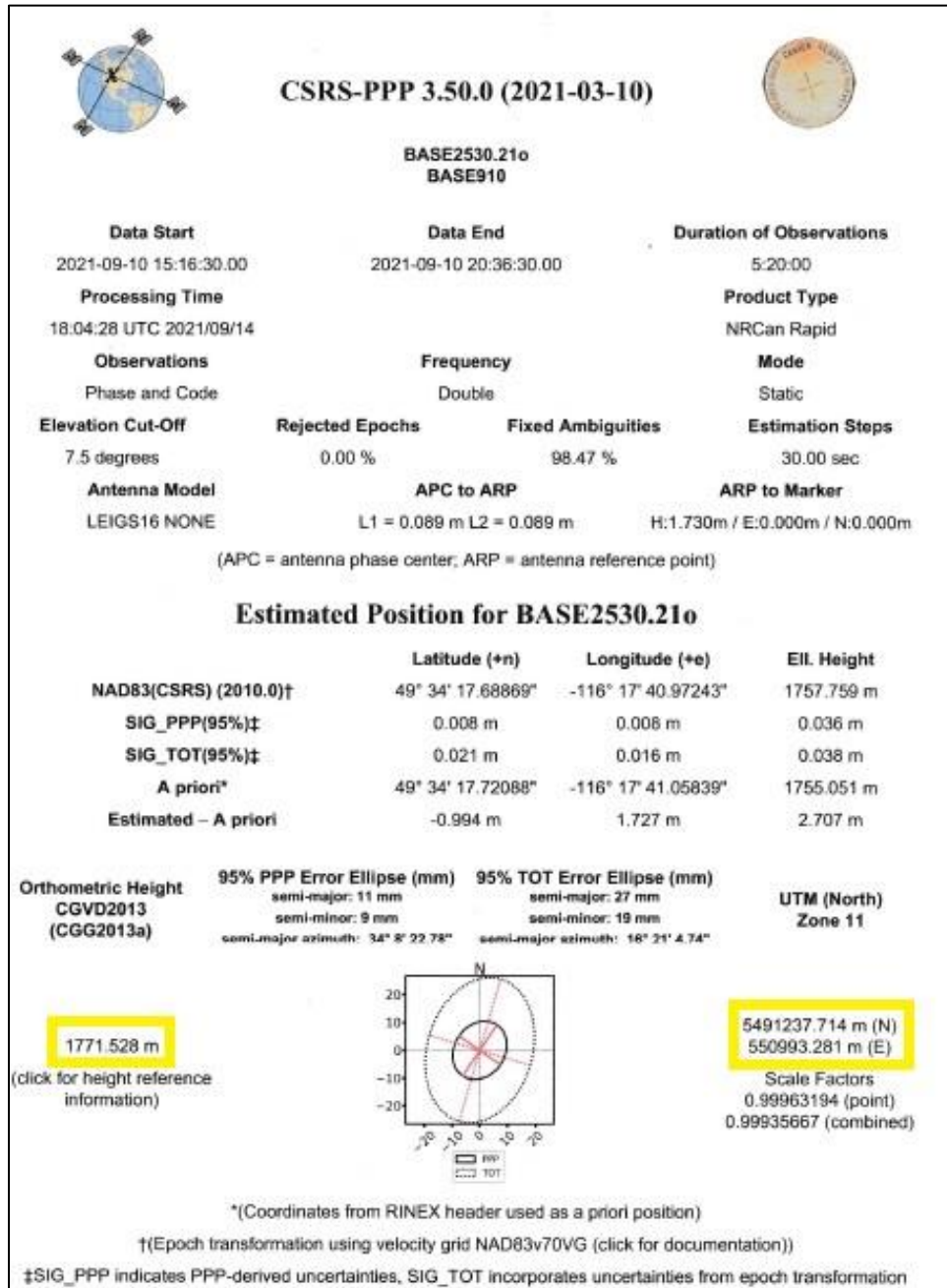
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Sept 7	time	read	mGals	tide	adj Read	drift	mGal	Observed
Heritage Base	8:10	4232.31	4505.50	-0.031	4505.47	0.00	4505.47	980700.58
7101	11:25	4188.60	4458.83	-0.036	4458.79	0.02	4458.81	980653.93
7102	11:35	4186.59	4456.68	-0.030	4456.65	0.02	4456.68	980651.79
7103	11:50	4180.90	4450.61	-0.021	4450.59	0.03	4450.61	980645.72
7104	12:10	4174.16	4443.41	-0.009	4443.40	0.03	4443.43	980638.54
7101r	13:10	4188.54	4458.76	0.025	4458.79	0.04	4458.82	980653.93
6001r	14:48	4175.52	4444.86	0.048	4444.91	0.05	4444.96	980640.07
7105	15:20	4164.22	4432.80	0.056	4432.86	0.05	4432.91	980628.02
7106	15:37	4160.75	4429.10	0.053	4429.15	0.05	4429.20	980624.32
7107	16:25	4185.95	4456.00	0.041	4456.04	0.06	4456.10	980651.21
Heritage Base	17:55	4232.22	4505.40	-0.002	4505.40	0.07	4505.47	980700.58
Sept 8								
Heritage Base	8:05	4232.11	4505.29	-0.082	4505.20	0.00	4505.20	980700.58
7106r	9:50	4160.72	4429.07	-0.093	4428.97	0.01	4428.98	980624.36 2m from prev
8101	10:50	4166.73	4435.48	-0.079	4435.40	0.01	4435.42	980630.79
8102	11:16	4165.08	4433.72	-0.069	4433.65	0.02	4433.67	980629.04
8103	11:30	4150.19	4417.83	-0.067	4417.76	0.02	4417.77	980613.15
8104	11:50	4144.55	4411.80	-0.054	4411.75	0.02	4411.77	980607.14
8105	12:05	4134.41	4400.98	-0.046	4400.93	0.02	4400.95	980596.33
8106	12:25	4124.58	4390.49	-0.035	4390.45	0.02	4390.47	980585.85
8107	13:10	4118.84	4384.36	-0.013	4384.35	0.02	4384.37	980579.75
8108	14:55	4145.34	4412.65	0.025	4412.67	0.03	4412.71	980608.08
8109	16:10	4142.64	4409.77	0.027	4409.79	0.04	4409.83	980605.21
8110	15:25	4132.50	4398.94	0.029	4398.97	0.03	4399.01	980594.38 chg batt.
8111	15:42	4124.02	4389.89	0.030	4389.92	0.04	4389.96	980585.33
8112	15:50	4117.72	4383.17	0.029	4383.19	0.04	4383.23	980578.61
7106r	16:48	4160.61	4428.95	0.018	4428.97	0.04	4429.01	980624.38
Heritage Base	18:40	4232.01	4505.18	-0.032	4505.15	0.05	4505.20	980700.58
Sept 10								
Heritage Base	7:15	4231.74	4504.89	-0.018	4504.87	0.00	4504.87	980700.58
10101	9:05	4063.26	4325.05	-0.040	4325.01	0.01	4325.02	980520.73 upper GPSbase
10102	9:35	4016.30	4274.92	-0.067	4274.85	0.01	4274.87	980470.57
10103	9:50	4042.81	4303.22	-0.070	4303.15	0.02	4303.16	980498.87
10104	10:40	4058.74	4320.22	-0.068	4320.15	0.02	4320.18	980515.88
10105	11:00	4061.10	4322.74	-0.072	4322.67	0.02	4322.69	980518.40
10106	11:20	4064.98	4326.88	-0.070	4326.81	0.03	4326.84	980522.55
10107	11:38	4064.98	4326.88	-0.068	4326.81	0.03	4326.84	980522.55
10108	12:00	4067.03	4329.07	-0.064	4329.01	0.03	4329.04	980524.74
10109	12:23	4074.85	4337.42	-0.060	4337.36	0.03	4337.39	980533.10
10110	12:55	4080.28	4343.21	-0.053	4343.16	0.04	4343.20	980538.90
10111	13:16	4087.77	4351.21	-0.048	4351.16	0.04	4351.20	980546.91
10112	13:51	4077.66	4340.42	-0.039	4340.38	0.04	4340.42	980536.13
Heritage Base	18:35	4231.71	4504.86	-0.063	4504.80	0.07	4504.87	980700.58
Sept 25								
Heritage Base	8:35	4230.46	4503.52	-0.003	4503.52	0.00	4503.52	980700.58
7106r 25101	10:10	4159.09	4427.34	-0.037	4427.30	0.01	4427.31	980624.37
25102	11:35	4128.66	4394.86	-0.052	4394.81	0.01	4394.82	980591.88
25103	12:15	4109.63	4374.54	-0.054	4374.49	0.01	4374.51	980571.56
25104	12:41	4095.92	4359.91	-0.054	4359.86	0.02	4359.87	980556.93
25105	14:03	4170.35	4439.36	-0.048	4439.31	0.02	4439.33	980636.39
7106r	14:20	4159.09	4427.34	-0.047	4427.29	0.02	4427.32	980624.38
Heritage Base	16:05	4230.47	4503.54	-0.041	4503.49	0.03	4503.52	980700.58

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STA	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	B1	B2	B3	B4	C1	C2	C3	C4	C5	C6	ITC
GPS base	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
7101	0	0	0	0	1	1	1	1	2	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.00
7102	0	1	0	0	1	0	0	2	2	2	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.01
7103	1	1	1	1	2	3	2	4	4	2	0.003	0.003	0.003	0.003	0.001	0.002	0.001	0.003	0.003	0.001	0.02
7104	1	1	2	2	2	4	2	5	3	2	0.003	0.003	0.010	0.010	0.001	0.003	0.001	0.005	0.002	0.001	0.04
7105	1	1	1	0	3	2	5	3	2	3	0.003	0.003	0.003	0.000	0.002	0.001	0.005	0.002	0.001	0.002	0.02
7106	0	0	0	0	4	4	0	0	4	0	0.000	0.000	0.000	0.000	0.003	0.003	0.000	0.000	0.003	0.000	0.01
7107	2	1	3	0	1	4	4	3	4	2	0.010	0.003	0.019	0.000	0.000	0.003	0.003	0.000	0.003	0.001	0.04
8101	0	1	0	2	2	3	7	5	3	2	0.000	0.003	0.000	0.010	0.001	0.002	0.009	0.005	0.002	0.001	0.03
8102	0	0	1	3	8	3	1	7	6	4	0.000	0.000	0.003	0.019	0.011	0.002	0.000	0.009	0.006	0.003	0.05
8103	1	1	3	2	2	5	5	1	7	6	0.003	0.003	0.019	0.010	0.001	0.005	0.005	0.000	0.009	0.006	0.06
8104	1	0	0	0	3	2	4	3	2	2	0.003	0.000	0.000	0.000	0.002	0.001	0.003	0.002	0.001	0.001	0.01
8105	1	2	0	1	3	5	10	10	3	9	0.003	0.010	0.000	0.003	0.002	0.005	0.017	0.017	0.002	0.014	0.07
8106	2	1	1	1	1	8	18	14	2	4	0.010	0.003	0.003	0.003	0.000	0.011	0.044	0.030	0.001	0.003	0.11
8107	0	2	4	4	5	14	15	10	8	14	0.000	0.010	0.028	0.028	0.005	0.030	0.033	0.017	0.011	0.030	0.19
8108	0	0	2	3	0	15	20	5	15	20	0.000	0.000	0.010	0.019	0.000	0.033	0.052	0.005	0.033	0.052	0.20
8109	0	3	0	2	3	8	6	10	8	4	0.000	0.019	0.000	0.010	0.002	0.011	0.006	0.017	0.011	0.003	0.08
8110	2	3	1	2	8	10	8	8	12	8	0.010	0.019	0.003	0.010	0.011	0.017	0.011	0.011	0.023	0.011	0.13
8111	1	2	2	4	3	8	12	8	14	14	0.003	0.010	0.010	0.028	0.002	0.011	0.023	0.011	0.030	0.030	0.16
8112	0	2	0	2	8	12	12	6	16	16	0.000	0.010	0.000	0.010	0.011	0.023	0.023	0.006	0.037	0.037	0.16
10101	1	0	1	0	7	5	2	3	4	4	0.003	0.000	0.003	0.000	0.009	0.005	0.001	0.002	0.003	0.003	0.03
10102	0	0	1	1	2	3	2	4	4	2	0.000	0.000	0.003	0.003	0.001	0.002	0.001	0.003	0.003	0.001	0.02
10103	1	0	0	2	0	6	5	10	12	12	0.003	0.000	0.000	0.010	0.000	0.006	0.005	0.017	0.023	0.023	0.09
10104	2	1	4	2	5	5	2	10	14	7	0.010	0.003	0.028	0.010	0.005	0.005	0.001	0.017	0.030	0.009	0.12
10105	1	1	1	0	2	3	2	4	8	3	0.003	0.003	0.003	0.000	0.001	0.002	0.001	0.003	0.011	0.002	0.03
10106	0	0	0	0	0	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
10107	1	3	1	3	2	12	14	12	4	4	0.003	0.019	0.003	0.019	0.001	0.023	0.030	0.023	0.003	0.003	0.13
10108	2	4	2	4	13	20	13	8	16	10	0.010	0.028	0.010	0.028	0.026	0.052	0.026	0.011	0.037	0.017	0.24
10109	2	2	4	3	2	6	14	20	18	5	0.010	0.010	0.028	0.019	0.001	0.006	0.030	0.052	0.044	0.005	0.20
10110	8	4	10	4	6	25	12	12	25	12	0.062	0.028	0.076	0.028	0.006	0.070	0.023	0.023	0.070	0.023	0.41
10111	1	1	2	2	3	7	12	12	5	12	0.003	0.003	0.010	0.010	0.002	0.009	0.023	0.023	0.005	0.023	0.11
10112	0	2	1	0	2	3	3	8	10	8	0.000	0.010	0.003	0.000	0.001	0.002	0.002	0.011	0.017	0.011	0.06
25102	2	5	3	4	14	27	20	12	22	8	0.010	0.037	0.019	0.028	0.030	0.077	0.052	0.023	0.059	0.011	0.35
25103	2	5	5	2	12	18	12	18	12	8	0.010	0.037	0.037	0.010	0.023	0.044	0.023	0.044	0.023	0.011	0.26
25104	3	4	5	2	15	8	12	16	8	14	0.019	0.028	0.037	0.010	0.033	0.011	0.023	0.037	0.011	0.030	0.24
25105	0	0	0	0	0	5	5	0	7	7	0.000	0.000	0.000	0.000	0.000	0.005	0.005	0.000	0.009	0.009	0.03

Appendix 8 CSRS-PPP document for Upper Basin GPS Base Location



Appendix 9 Processed Gravity Data Listing in EKGDB format

VECTOR	SOURCE	LINE	STATION	UTMX	UTMY	LAT	LONG	ELEV	OBSGRAV	LATCOR
5326	37220	478	10141	552840	5494263	49.5986	-116.2688	1105.7	980652.71	981034.51
5327	37220	1014	101	553074	5494125	49.5974	-116.2656	1076.0	980657.70	981034.40
5328	37220	1014	200	552954	5494041	49.5966	-116.2672	1088.1	980654.96	981034.33
5329	37220	1014	400	552794	5493997	49.5962	-116.2694	1096.0	980652.88	981034.30
5330	37220	1014	600	552607	5493932	49.5957	-116.2720	1108.6	980649.97	981034.25
5331	37220	1014	800	552426	5493880	49.5952	-116.2746	1120.0	980647.04	981034.21
5332	37220	1014	1000	552225	5493826	49.5948	-116.2773	1130.8	980644.07	981034.16
5333	37220	1014	1200	552034	5493797	49.5945	-116.2800	1138.7	980642.12	981034.14
5334	37220	1014	1400	551828	5493739	49.5940	-116.2828	1155.1	980638.36	981034.10
5335	37220	1014	1600	551660	5493657	49.5933	-116.2852	1176.9	980634.07	981034.03
5336	37220	1014	1800	551507	5493618	49.5929	-116.2873	1187.1	980632.54	981034.00
5337	37220	1014	2000	551358	5493537	49.5922	-116.2894	1196.9	980630.61	981033.94
5338	37220	1014	2200	551165	5493485	49.5918	-116.2920	1207.6	980628.29	981033.90
5339	37220	1014	2300	551081	5493459	49.5915	-116.2932	1207.8	980627.91	981033.88
5340	37220	1014	2400	550961	5493431	49.5913	-116.2949	1205.9	980627.92	981033.86
5341	37220	1014	2500	550893	5493416	49.5912	-116.2958	1204.8	980627.74	981033.85
5342	37220	1014	2600	550781	5493382	49.5909	-116.2974	1203.4	980627.18	981033.82
5343	37220	1014	2700	550699	5493359	49.5907	-116.2985	1201.5	980626.98	981033.80
5344	37220	1014	2800	550630	5493346	49.5906	-116.2995	1200.7	980627.07	981033.79
5345	37220	1014	2900	550480	5493310	49.5903	-116.3016	1205.7	980625.96	981033.76
5346	37220	1015	3000	550393	5493259	49.5898	-116.3028	1214.9	980624.23	981033.72
5347	37220	1015	3100	550345	5493202	49.5893	-116.3034	1217.2	980623.29	981033.68
5348	37220	1015	3200	550270	5493148	49.5888	-116.3045	1218.1	980622.14	981033.63
5349	37220	1015	3400	550142	5493051	49.5880	-116.3063	1228.8	980619.44	981033.56
5350	37220	1015	3600	549958	5492947	49.5870	-116.3088	1229.3	980618.49	981033.47
5351	37220	1015	3800	549792	5492866	49.5863	-116.3111	1225.9	980618.34	981033.41
5352	37220	1015	4000	549599	5492734	49.5852	-116.3138	1230.6	980616.34	981033.31
5353	37220	1015	4200	549457	5492674	49.5846	-116.3158	1238.1	980615.19	981033.26
5354	37220	1015	4400	549287	5492573	49.5837	-116.3181	1246.2	980613.29	981033.18
5355	37220	1015	4600	549128	5492489	49.5830	-116.3204	1253.0	980611.92	981033.11
5356	37220	1015	5000	548823	5492270	49.5810	-116.3246	1270.6	980608.93	981032.94
5357	37220	1015	5102	550462	5493017	49.5876	-116.3018	1322.7	980606.57	981033.53
5358	37220	1015	5103	550425	5493088	49.5883	-116.3023	1288.9	980612.45	981033.58
5359	37220	1015	6000	551947	5494210	49.5982	-116.2811	1208.8	980633.68	981034.48
5360	37220	1015	6001	552295	5494243	49.5985	-116.2763	1177.4	980640.16	981034.50
5361	2021	1007	7101	553229	5494161	49.5977	-116.2634	1099.6	980653.93	981034.43
5362	2021	1007	7102	553067	5493963	49.5959	-116.2657	1111.9	980651.79	981034.27
5363	2021	1007	7103	553145	5493766	49.5941	-116.2646	1142.5	980645.72	981034.11
5364	2021	1007	7104	553346	5493530	49.5920	-116.2619	1178.0	980638.54	981033.92
5365	2021	1007	6001r	552295	5494244	49.5985	-116.2763	1177.4	980640.07	981034.50
5366	2021	1007	7105	551648	5494265	49.5988	-116.2853	1237.2	980628.02	981034.52
5367	2021	1007	7106	551827	5494424	49.6002	-116.2828	1262.1	980624.32	981034.65
5368	2021	1007	7107	552876	5494639	49.6020	-116.2682	1124.3	980651.21	981034.81
5370	2021	1008	8101	553351	5493371	49.5906	-116.2618	1219.7	980630.79	981033.79
5371	2021	1008	8102	553185	5493418	49.5910	-116.2641	1228.7	980629.04	981033.83
5372	2021	1008	8103	553407	5493007	49.5873	-116.2611	1312.5	980613.15	981033.50
5373	2021	1008	8104	553130	5493105	49.5882	-116.2649	1342.7	980607.14	981033.58
5374	2021	1008	8105	553407	5492744	49.5849	-116.2611	1402.4	980596.33	981033.28
5375	2021	1008	8106	552963	5492916	49.5865	-116.2672	1450.5	980585.85	981033.43
5376	2021	1008	8107	552727	5493035	49.5876	-116.2705	1475.7	980579.75	981033.52
5377	2021	1008	8108	548355	5491957	49.5783	-116.3311	1283.5	980608.08	981032.69
5378	2021	1008	8109	547972	5491655	49.5756	-116.3364	1312.1	980605.21	981032.45
5379	2021	1008	8110	547800	5491322	49.5726	-116.3389	1377.8	980594.38	981032.18
5380	2021	1008	8111	547725	5490800	49.5679	-116.3400	1422.3	980585.33	981031.76
5381	2021	1008	8112	547664	5490184	49.5624	-116.3409	1457.7	980578.61	981031.27
5383	2021	1008	10101	550989	5491238	49.5716	-116.2948	1770.7	980520.73	981032.09
5384	2021	1010	10102	550655	5490201	49.5623	-116.2996	2019.6	980470.57	981031.26
5385	2021	1010	10103	551203	5490494	49.5649	-116.2919	1873.3	980498.87	981031.49
5386	2021	1010	10104	550993	5490810	49.5677	-116.2948	1781.1	980515.88	981031.75
5387	2021	1010	10105	550889	5490985	49.5693	-116.2962	1771.7	980518.40	981031.89
5388	2021	1010	10106	550929	5491173	49.5710	-116.2956	1758.8	980522.55	981032.04
5389	2021	1010	10107	550990	5491425	49.5733	-116.2948	1762.6	980522.55	981032.24
5390	2021	1010	10108	550987	5491648	49.5753	-116.2948	1748.7	980524.74	981032.42
5391	2021	1010	10109	550910	5491816	49.5768	-116.2958	1707.0	980533.10	981032.56
5392	2021	1010	10110	550845	5492005	49.5785	-116.2967	1676.3	980538.90	981032.71
5393	2021	1010	10111	550745	5491955	49.5781	-116.2981	1636.9	980546.91	981032.67
5394	2021	1010	10112	550826	5491773	49.5764	-116.2970	1696.1	980536.13	981032.52
5396	2021	1025	25102	550509	5492801	49.5857	-116.3012	1402.0	980591.88	981033.35
5397	2021	1025	25103	550393	5492583	49.5837	-116.3028	1508.5	980571.56	981033.18
5398	2021	1025	25104	550349	5492461	49.5826	-116.3035	1579.9	980556.93	981033.08
5399	2021	1025	25105	551583	5494056	49.5969	-116.2862	1182.4	980636.39	981034.35

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FR-AIR-C	BG-COR	50mITC	55mITC	STATION	175mITC	30kOTC	GSC_	GSC30k	Boug267	Boug275	Boug280
341.21	-123.79	0.00	0.00	10141	0.00	12.04	0.00	0.00	-152.34	-155.69	-157.78
332.05	-120.43	0.10	0.00	101	0.00	13.61	0.00	0.00	-151.37	-154.57	-156.57
335.78	-121.78	0.36	0.00	200	0.00	13.74	0.00	0.00	-151.28	-154.50	-156.52
338.23	-122.71	0.26	0.00	400	0.00	13.95	0.00	0.00	-151.69	-154.94	-156.97
342.11	-124.12	0.18	0.00	600	0.00	14.29	0.00	0.00	-151.82	-155.10	-157.16
345.64	-125.40	0.24	0.00	800	0.00	14.67	0.00	0.00	-152.02	-155.33	-157.40
348.97	-126.61	0.30	0.00	1000	0.00	15.30	0.00	0.00	-152.14	-155.46	-157.54
351.41	-127.49	0.25	0.00	1200	0.00	15.72	0.00	0.00	-152.14	-155.48	-157.57
356.46	-129.33	0.34	0.00	1400	0.00	15.85	0.00	0.00	-152.41	-155.80	-157.92
363.18	-131.76	0.29	0.00	1600	0.00	15.88	0.00	0.00	-152.38	-155.84	-158.00
366.35	-132.91	0.23	0.00	1800	0.00	15.67	0.00	0.00	-152.12	-155.63	-157.82
369.36	-134.01	0.18	0.00	2000	0.00	16.26	0.00	0.00	-151.53	-155.05	-157.25
372.66	-135.20	0.41	0.00	2200	0.00	16.20	0.00	0.00	-151.54	-155.10	-157.32
372.72	-135.22	0.31	0.00	2300	0.00	16.46	0.00	0.00	-151.69	-155.24	-157.46
372.15	-135.02	0.28	0.00	2400	0.00	16.75	0.00	0.00	-151.78	-155.31	-157.52
371.80	-134.89	0.21	0.00	2500	0.00	16.92	0.00	0.00	-152.07	-155.60	-157.80
371.38	-134.74	0.23	0.00	2600	0.00	17.34	0.00	0.00	-152.42	-155.94	-158.13
370.80	-134.53	0.33	0.00	2700	0.00	17.62	0.00	0.00	-152.60	-156.09	-158.27
370.55	-134.44	0.27	0.00	2800	0.00	17.64	0.00	0.00	-152.70	-156.19	-158.37
372.08	-134.99	0.17	0.00	2900	0.00	17.39	0.00	0.00	-153.17	-156.68	-158.88
374.92	-136.02	0.15	0.00	3000	0.00	17.26	0.00	0.00	-153.19	-156.74	-158.96
375.63	-136.28	0.21	0.00	3100	0.00	17.82	0.00	0.00	-153.01	-156.55	-158.77
375.92	-136.38	0.49	0.00	3200	0.00	18.48	0.00	0.00	-153.00	-156.51	-158.71
379.22	-137.58	0.57	0.00	3400	0.00	18.88	0.00	0.00	-153.03	-156.57	-158.79
379.36	-137.63	0.54	0.00	3600	0.00	19.34	0.00	0.00	-153.37	-156.90	-159.11
378.31	-137.25	0.21	0.00	3800	0.00	19.85	0.00	0.00	-153.95	-157.47	-159.66
379.75	-137.77	0.38	0.00	4000	0.00	20.42	0.00	0.00	-154.19	-157.69	-159.88
382.07	-138.62	0.38	0.00	4200	0.00	19.89	0.00	0.00	-154.35	-157.90	-160.11
384.57	-139.52	0.46	0.00	4400	0.00	19.93	0.00	0.00	-154.46	-158.03	-160.26
386.66	-140.28	0.37	0.00	4600	0.00	19.69	0.00	0.00	-154.75	-158.35	-160.61
392.11	-142.26	0.41	0.00	5000	0.00	19.03	0.00	0.00	-154.71	-158.39	-160.69
408.17	-148.09	0.35	0.00	5102	0.00	14.44	0.00	0.00	-152.09	-156.08	-158.58
397.75	-144.31	0.39	0.00	5103	0.00	15.18	0.00	0.00	-152.12	-155.97	-158.38
373.05	-135.34	0.16	0.00	6000	0.00	10.91	0.00	0.00	-152.02	-155.74	-158.07
363.35	-131.82	0.08	0.00	6001	0.00	11.03	0.00	0.00	-151.70	-155.31	-157.57
339.34	-123.07	0.00	0.00	7101	0.00	12.37	0.00	0.00	-151.86	-155.18	-157.25
343.14	-124.45	0.01	0.00	7102	0.00	13.05	0.00	0.00	-150.74	-154.08	-156.16
352.59	-127.88	0.02	0.00	7103	0.00	13.48	0.00	0.00	-150.18	-153.61	-155.75
363.54	-131.85	0.04	0.00	7104	0.00	14.31	0.00	0.00	-149.34	-152.86	-155.06
363.35	-131.78	0.01	0.00	6001r	0.00	11.04	0.00	0.00	-151.81	-155.43	-157.69
381.80	-138.48	0.02	0.00	7105	0.00	10.86	0.00	0.00	-152.29	-156.12	-158.51
389.47	-141.26	0.01	0.00	7106	0.00	9.63	0.00	0.00	-152.48	-156.42	-158.89
346.96	-125.84	0.04	0.00	7107	0.00	10.55	0.00	0.00	-151.88	-155.34	-157.49
376.39	-136.51	0.03	0.00	8101	0.00	14.13	0.00	0.00	-148.96	-152.62	-154.92
379.18	-137.53	0.05	0.00	8102	0.00	13.75	0.00	0.00	-149.33	-153.04	-155.36
405.04	-146.91	0.06	0.00	8103	0.00	14.01	0.00	0.00	-148.14	-152.12	-154.61
414.35	-150.28	0.01	0.00	8104	0.00	13.53	0.00	0.00	-148.82	-152.92	-155.48
432.80	-156.97	0.07	0.00	8105	0.00	13.26	0.00	0.00	-147.79	-152.10	-154.79
447.62	-162.35	0.11	0.00	8106	0.00	13.50	0.00	0.00	-148.70	-153.16	-155.94
455.39	-165.17	0.19	0.00	8107	0.00	13.85	0.00	0.00	-149.51	-154.04	-156.87
396.10	-143.66	0.20	0.00	8108	0.00	18.35	0.00	0.00	-153.62	-157.37	-159.71
404.90	-146.85	0.08	0.00	8109	0.00	16.05	0.00	0.00	-153.07	-156.98	-159.43
425.19	-154.21	0.13	0.00	8110	0.00	13.01	0.00	0.00	-153.69	-157.92	-160.56
438.93	-159.19	0.16	0.00	8111	0.00	12.64	0.00	0.00	-153.90	-158.29	-161.03
449.84	-163.15	0.16	0.00	8112	0.00	12.43	0.00	0.00	-153.39	-157.90	-160.72
546.43	-198.19	0.03	0.00	10101	0.00	12.94	0.00	0.00	-150.16	-155.71	-159.18
623.25	-226.05	0.02	0.00	10102	0.00	12.88	0.00	0.00	-150.59	-156.97	-160.97
578.11	-209.67	0.09	0.00	10103	0.00	14.25	0.00	0.00	-149.85	-155.71	-159.36
549.66	-199.36	0.12	0.00	10104	0.00	15.28	0.00	0.00	-150.17	-155.68	-159.12
546.73	-198.29	0.03	0.00	10105	0.00	14.59	0.00	0.00	-150.44	-155.94	-159.38
542.77	-196.86	0.00	0.00	10106	0.00	13.41	0.00	0.00	-150.17	-155.67	-159.11
543.94	-197.28	0.13	0.00	10107	0.00	12.87	0.00	0.00	-150.04	-155.56	-159.01
539.65	-195.73	0.24	0.00	10108	0.00	13.20	0.00	0.00	-150.32	-155.78	-159.20
526.78	-191.06	0.20	0.00	10109	0.00	13.10	0.00	0.00	-150.44	-155.77	-159.09
517.31	-187.62	0.41	0.00	10110	0.00	13.13	0.00	0.00	-150.58	-155.80	-159.06
505.13	-183.21	0.11	0.00	10111	0.00	13.12	0.00	0.00	-150.62	-155.71	-158.89
523.43	-189.84	0.06	0.00	10112	0.00	12.26	0.00	0.00	-150.50	-155.81	-159.14
432.67	-156.92	0.35	0.00	25102	0.00	13.48	0.00	0.00	-151.91	-156.20	-158.88
465.52	-168.84	0.26	0.00	25103	0.00	12.65	0.00	0.00	-152.02	-156.69	-159.61
487.55	-176.83	0.24	0.00	25104	0.00	12.89	0.00	0.00	-152.30	-157.21	-160.27
364.88	-132.34	0.03	0.00	25105	0.00	13.15	0.00	0.00	-152.23	-155.80	-158.04

Appendix 10 Gravity Anomalies from a Sullivan Deposit at Different Depths

