

**Ministry of Energy, Mines & Petroleum Resources**  
Mining & Minerals Division  
BC Geological Survey

**Assessment Report**  
**Title Page and Summary**

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

TOTAL COST: \$6,200

AUTHOR(S): J. T. Shearer

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): \_\_\_\_\_

YEAR OF WORK: 2014

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5532513

PROPERTY NAME: Gold Ledge

CLAIM NAME(S) (on which the work was done): \_\_\_\_\_

COMMODITIES SOUGHT: Au/Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: \_\_\_\_\_

MINING DIVISION: Fort Steele

NTS/BCGS: 82F/09E

LATITUDE: 49 ° 40 ' 48 " LONGITUDE: 116 ° 14 ' 58 " (at centre of work)

OWNER(S):

1) J. T. Shearer

2) \_\_\_\_\_

MAILING ADDRESS:

Unit 5 - 2330 Tyner Street

Port Coquitlam, BC V3C 2Z1

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

1) Same as above

2) \_\_\_\_\_

MAILING ADDRESS:

Same as above

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

The Goldledge showing occurs in a major regional fault cutting middle Proterozoic argillaceous quartzite of the Aldridge Formation. The 1890's workings are a 41m drive with a 14m cross-cut. Quartz breccia is exposed containing Arsenopyrite, galena and pyrite. A selected sample assayed of 34g/tonne Au

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: \_\_\_\_\_

Assessment Reports 25326; 24817; 26118; 26361

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping	_____	_____	_____
Photo interpretation	_____	_____	_____
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	_____	_____	_____
Radiometric	_____	_____	_____
Seismic	_____	_____	_____
Other	_____	_____	_____
Airborne			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil	_____	_____	_____
Silt	_____	_____	_____
Rock	_____	_____	_____
Other	_____	_____	_____
<b>DRILLING (total metres; number of holes, size)</b>			
Core	_____	_____	_____
Non-core	_____	_____	_____
<b>RELATED TECHNICAL</b>			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
Mineralographic	_____	_____	_____
Metallurgic	_____	_____	_____
<b>PROSPECTING (scale, area)</b>			
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres)	_____	_____	_____
Topographic/Photogrammetric (scale, area)	_____	_____	_____
Legal surveys (scale, area)	_____	_____	_____
Road, local access (kilometres)/trail	_____	_____	_____
Trench (metres)	_____	_____	_____
Underground dev. (metres)	_____	_____	_____
Other	_____	_____	_____
<b>TOTAL COST:</b>			<b>\$ 6,200.00</b>

**PROSPECTING and GEOCHEMICAL  
ASSESSMENT REPORT  
on the  
GOLDLEDGE PROPERTY**

**LATITUDE 49°40'48"N LONGITUDE 116°14'58"W  
NTS 082F/09 (082F.069+.060)  
UTM 5503323N + 554146E (11 NAD83)**

**ST. MARY'S LAKE AREA, KIMBERLEY,  
FORT STEELE MINING DIVISION, BRITISH COLUMBIA  
Event #5532513**

**For**

**Homegold Resources Ltd.  
Unit 5 – 2330 Tyner Street,  
Port Coquitlam, BC  
V3C 2Z1**

**Prepared By  
J. T. SHEARER, M.Sc., P.Geo. (BC & Ontario)**

**December 1, 2014**

**Fieldwork completed between November 21 and December 1, 2014**

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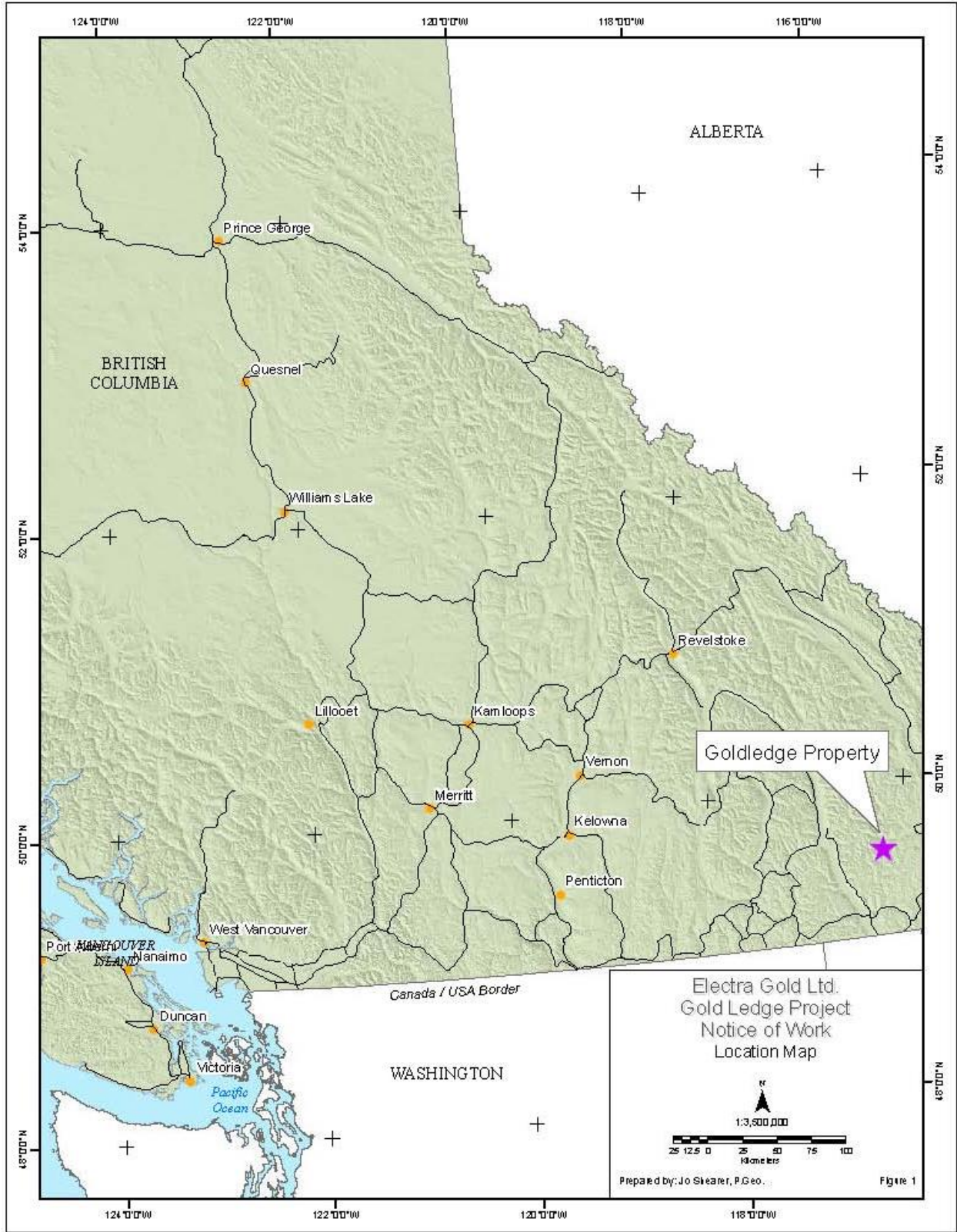
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## SUMMARY

The Goldledge property comprises 9 mineral claims with a total of 1,673.72 ha. The claims are within the Fort Steele Mining Division, and located west of the town of Kimberley, B.C. Road access to the property is via the St. Mary Lake Road and the Matthew Creek Forest Service Road. Elevations on the property range from 1000m to 2690m above sea level. Higher elevations and remote areas on the property were accessed by helicopter from a base in Cranbrook.

The Gold Ledge Property lies within the Purcell Anticlinorium. The Proterozoic aged Purcell Supergroup is exposed in the core of the Anticlinorium with the lower Aldridge Formation forming the basal part of the Purcell Supergroup. The lower Aldridge comprises thin bedded, rusty quartzitic wacke and siltstone. The formation is conformably overlain by the middle Aldridge comprised of thin to medium bedded, rusty to grey weathering quartz wacke, quartzitic wacke and siltstone units. Syn-depositional gabbro sills and dikes have intruded the lower and middle Aldridge Formation.

The most significant base metal deposit in the region is Cominco's Sullivan deposit at Kimberley. This sedimentary exhalative lead-zinc sulfide deposit contained an estimated 170 MT grading 5.5% zinc, 5.8% lead and 59 gram per tonne silver; and is stratigraphically situated immediately below the lower Aldridge-middle Aldridge contact (LMC).

Two historic diamond drill holes (PP-00-1 and PP-00-2) were completed between July 27 and September 17, 2000. The target was a Sullivan-type mineral deposit at the LMC. The LMC was not intersected in PP-00-1. The hole was interpreted to have passed from middle Aldridge into the upper part of the lower Aldridge, with some of the section being removed by a west-side-down normal fault (the Alki Fault).

In hole PP-00-2, the LMC was intersected. Sullivan Horizon equivalent rocks, weakly to moderately anomalous in Zn and Pb, were cored for 13m before a fault zone was encountered. Lower Aldridge Formation strata below this fault was not geochemically anomalous, and it was interpreted that some of the section was removed by the fault. This fault was not previously recognised in outcrop.

The Sullivan Horizon equivalent strata tested by hole PP-00-2 was weakly to moderately anomalous in Zn and Pb. The assay values (87ppm Pb, 226ppm Zn over 7.43m) suggest that the Sullivan Horizon equivalents in this hole are distal to ore bearing strata.

The previously known underground workings known as the Blue Peter and Mystery returned grab samples assaying over 1% (up to 2.48% Cu) Copper with variable gold (from trace to 1.423 g/tonne) and silver values. However a previously undocumented relatively wide east-west trending pyritic zone (now called St. Mary Zone) was noted as being investigated in the old days by 3 adits up along the mountain side. Samples of fine muck from the upper adit assayed 3.913 g/tonne gold with 8.3 g/tonne Ag, 0.05% Cu with very low Arsenopyrite (49ppm). A grab sample from the lowest adit on the St. Mary Zone assayed 1.470 g/tonne gold.

Based on the preliminary surveys, the main thrust fault and subsidiary East-West zones important mineral-bearing structures as indicated by old workings that are found along 8 kilometer strike length. As well, some limited reconnaissance prospecting to the north along strike of the structure has found additional sulphide mineralization to suggest possible extension of quartz-mineral-bearing structures to the north.

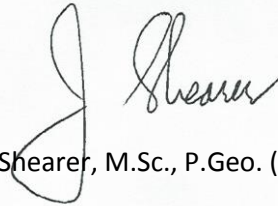
Rock types encountered along the lower road (see Figure 8) ranged from rusty weathering, micaceous brown quartzite and biotite schist. The Moyie Sills are represented by buff weathering, relatively fine grained gabbro. Quartzite of various types is the most abundant rock type.

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

The mainly quartzite in the eastern portion of the sampled area assayed up to 217ppm Zn and 147 lead.

Results in the western portion of the sample area returned lower Zn/Pb/Cu values, values up to 93ppm Zn and 35ppm Pb.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'J. T. Shearer', is written over a light grey rectangular background.

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



## INTRODUCTION

The Gold Ledge Property comprises 9 mineral claims with a total of 1,673.72 ha. The property is centred about Goldledge, 13km west of Kimberley, B.C. The Gold Ledge Property is within the Fort Steele Mining Division, covered by NTS map sheet 82F/09, and is centred at 49°40' 00" north and longitude 116°15'00" west (Figure 1). The St. Mary River runs along the southern and western sides of the property. Major streams such as Alki Creek, Matthew Creek and Pyramid Creek drain the high alpine regions around Goldledge in the central part of the property.

The southern part of the property near the Pauli Vent Showing is access via the Hell Roaring Creek road southeast of St. Marys Lake.

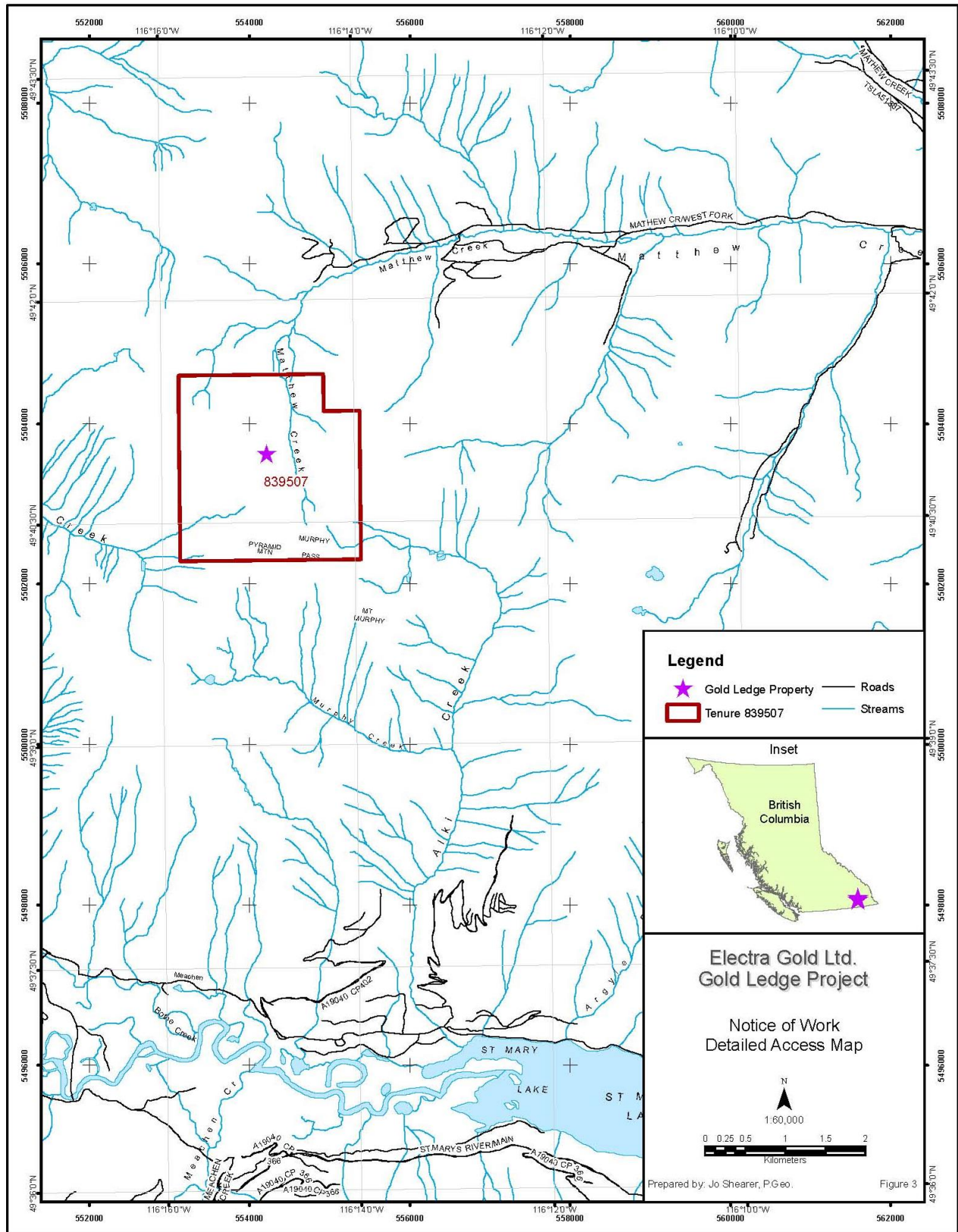


Figure 2 Access Map

## **LOCATION and ACCESS**

Road access to the property is via the St. Mary Lake Road, the Matthew Creek Forest Service Road, and minor branches off these roads. A foot trail off a new logging road along the east side of Alki Creek provides access to the upper part of this drainage. Because of the relatively rugged ground and limited road access, a helicopter was used previously on several traverses to access the high alpine areas.

Access to the Pauli Vent area south of St. Marys Lake is reached by the Hell Roaring Creek Road.

The property is located within the Purcell Mountains, at elevations ranging from 1000m above sea level (a.s.l.) in the St. Mary River valley, to 2690m on an unnamed ridge in the northwest corner of the property. Goldledge reaches a height of 2640m a.s.l. Vegetation at lower elevations consists of mature timber. There has been some logging in the area, and it is currently ongoing at Alki Creek. At higher elevations, scrub spruce and alpine shrubs and grasses predominate. The high ridges and cirques expose bare rock and talus. Outcrop exposure is quite good along ridges as well as some steep valley walls and streambeds. The climate is characterized by low to moderate precipitation with temperatures ranging from -30° Celsius in the winter to over 25° in the summer. The project area is generally accessible from late June to mid-October, depending on the preceding winter's snowfall.



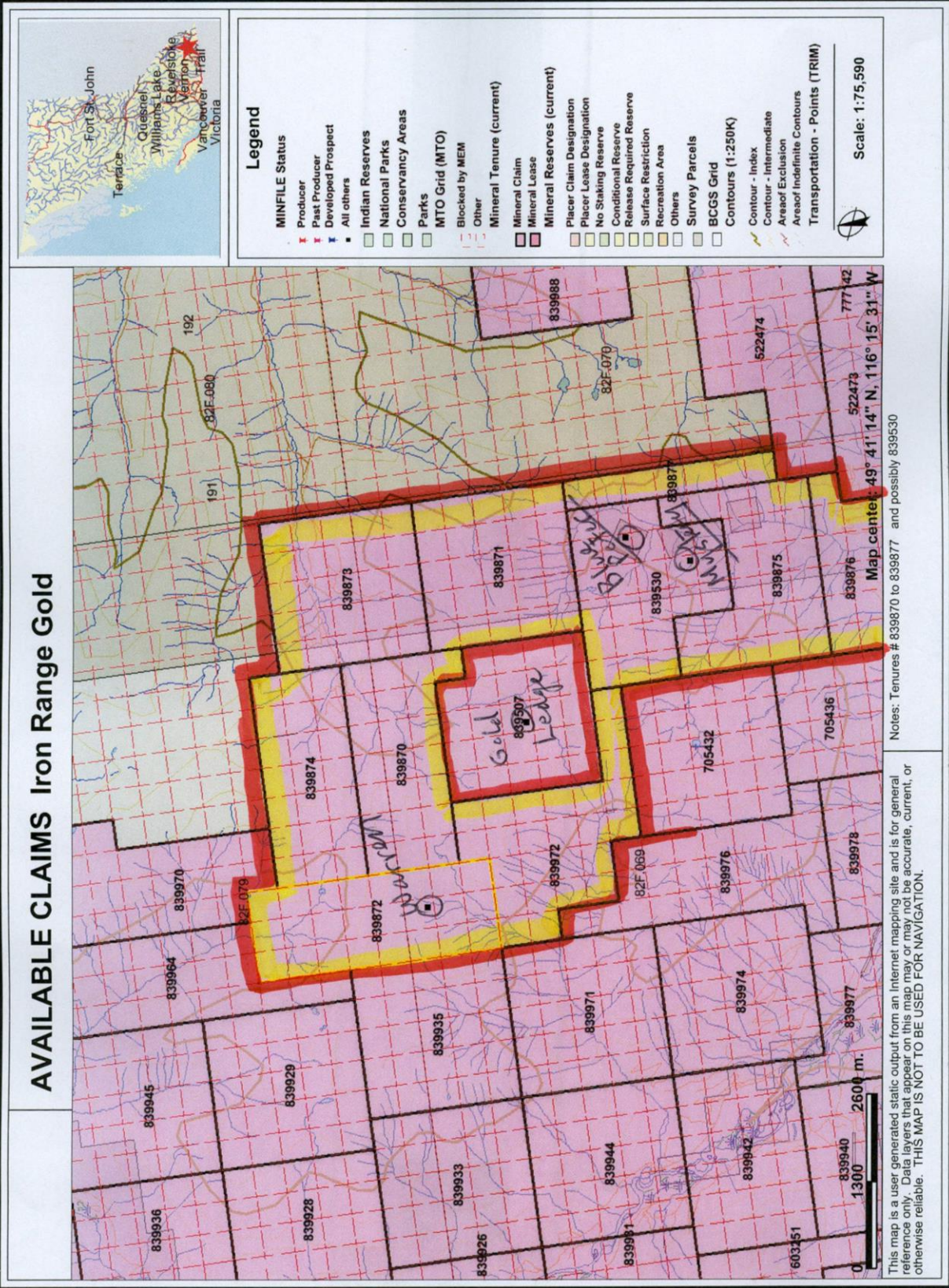


Figure 3 Claim Map



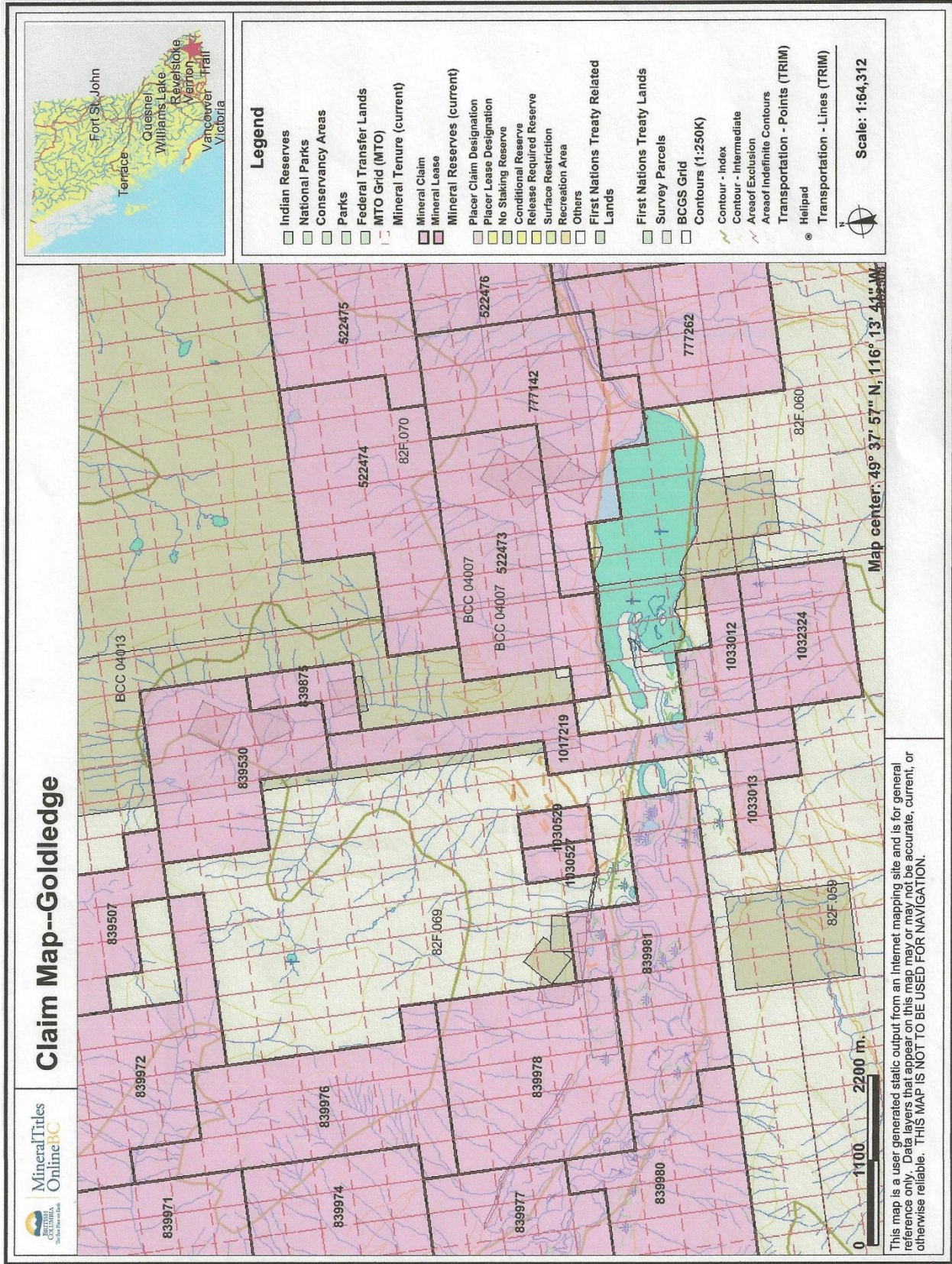


Figure 3a Detail Claim Map

## CLAIM STATUS

The 9 mineral claims of the Goldledge property are owned by Electra Gold Ltd. The claims cover an area of approximately 1,673.72 ha. A listing of claims and their status is shown in Table 1. The claim expiry dates listed reflect work credits filed with this report.

Table 1  
Goldledge Claims

Claim Name	Tenure No.	Area (ha)	Located Date	Current Expiry Date*	Registered Owner
Goldledge	839507	292.70	December 2, 2010	December 2, 2015	J. T. Shearer
Goldledge 2	839530	397.40	December 2, 2010	December 2, 2015	J. T. Shearer
Pete 1	839870	62.70	December 5, 2010	December 5, 2015	J. T. Shearer
Pete 3	839872	83.60	December 5, 2010	December 5, 2015	J. T. Shearer
Pete 6	839875	83.68	December 5, 2010	December 5, 2015	J. T. Shearer
Alki West	1017219	293.01	February 25, 2013	February 25, 2016	J. T. Shearer
Rolly	1032324	251.27	November 20, 2014	November 20, 2016	J. T. Shearer
Polly 2	1033012	125.61	December 31, 2014	December 31, 2015	J. T. Shearer
Polly 3	1033013	83.75	December 31, 2014	December 31, 2015	J. T. Shearer

Total ha: 1,673.72 ha

\* with application of work documented in this Assessment Report.

Under the present status of mineral claims in British Columbia, the consideration of industrial minerals requires careful designation of the product end use. An industrial mineral is a rock or naturally occurring substance that can be mined and processed for its unique qualities and used for industrial purposes (as defined in the *Mineral Tenure Act*). It does not include "Quarry Resources". Quarry Resources includes earth, soil, marl, peat, sand and gravel, and rock, rip-rap and stone products that are used for construction purposes (as defined in the *Land Act*). Construction means the use of rock or other natural substances for roads, buildings, berms, breakwaters, runways, rip-rap and fills and includes crushed rock. Dimension stone means any rock or stone product that is cut or split on two or more sides, but does not include crushed rock.

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



## HISTORY

Placer gold exploration and mining in the East Kootenay region began on the Wild Horse River near Ft. Steele in the mid-1860s. The discovery of the St. Eugene deposit at Moyie, and the Sullivan deposit, 13km to the east at Kimberley, switched the major focus of exploration to lead and zinc mineralization. Several small-scale workings, mainly in quartz veins and shears are located in the Alki Creek and upper Pyramid Creek areas and date to the 1890's or early part of the 1900s. (see section 4.0, Property Geology).

Current exploration activity in the East Kootenay is mostly focussed on lead-zinc mineralization within the Aldridge Group, particularly in the Sullivan-North Star corridor, the Moyie-Yahk area and the Findlay-Skookumchuck Creek area.

Cominco explored the Goldledge area in the past as part of their regional search for Sedex deposits in the Aldridge Formation. A few drill holes were completed in the 1980's. Cominco continues to hold claims in the area. More recently, Abitibi Mining Corp. undertook mapping and prospecting on the Goldledge property in 1997 and 1998. Two drill holes were completed by Abitibi in the south part of the Goldledge property near the St. Mary River. In 1999, Rio Algom Exploration Inc. undertook a program of geological mapping and lithochemical sampling on the Goldledge Property. A single diamond drill hole (PP-99-1) was completed in the northern part of the property (Gal and Weidner, 1999).

Two diamond drill holes were completed between July 27 and September 17, 2000; by Beaupre Diamond Drilling Ltd. of Princeton, BC. (see section 7.0). Patrick Donnelly and Leonard Gal, P. Geo supervised the drilling in the field and logged core. Geological mapping was conducted between June 11 and September 27 by Gal, assisted by Lloyd Addie. Siegfried O. Weidner, senior geologist for Rio Algom Exploration Inc., supervised the entire program. For stratigraphic control purposes, "markers laminites" were sampled from the middle Aldridge Formation. Marker samples were forwarded to Dave Pighin of Supergroup Holdings Ltd. for identification. Drill core and rock samples were collected and shipped to Eco-Tech Laboratories of Kamloops, BC for 28 element ICP and gold (AA +fire assay) analysis.

### Mineralization and Analytical Results 2000

Twenty-one rock samples were collected from surface outcrops for 28 element ICP analysis plus gold by AA and fire assay. Samples were collected from fragmental units, rusty pyrrhotitic siltstones and mineralized veins.

The highest values for base and precious metal mineralization were obtained from select sampling of several quartz sulphide veins exposed at the Gold Key workings and an unnamed showing at the headwaters of Pyramid Creek. At the Blue Peter showing, chalcopyrite, galena and sphalerite were observed in veins. Some significant assays are compiled in the table below:

### Significant assays from quartz-sulphide veins

Sample No.	Au (ppb)	Ag (ppm)	As (%)	Cu	Pb	Zn	Comment
16732	190	77.5	0.0775	3.17%	4946ppm	1173ppm	Gold Key shaft-select quartz-chalcopyrite vein material from dump
16733	55	<0.2	>1.0	163ppm	1594ppm	28ppm	Gold Key shaft-select quartz-calcite-pyrite vein material from dump
16734	60	<0.2	>1.0	162ppm	104ppm	13ppm	Patra Fault zone – 5cm quartz-arsenopyrite vein
16738	70	5.6	>1.0	6ppm	2738ppm	7ppm	Adit at head of Pyramid Creek. Select quartz-arsenopyrite-galena vein material from dump

Samples from fragmental units at the LMC were not anomalous. The best value of 92ppm Zn (sample 16727) was from fragmental with pyrrhotized clasts. Sample 7796 yielded 198ppm Pb from a fragmental bed within the A2 on the north side of Murphy Creek.

### 2013 Exploration

Phase I exploration, 2011-2013, consisted of reconnaissance sampling of the old workings and preliminary geological and structural mapping. The workings and associated mineralization are spatially related to a major north-northwest trending, second order thrust fault and lower order cross-cutting (East-West), offset faults. The offset faults have developed drag folds along the thrust structure producing brittle deformation with mineralized quartz structures hosted in the Lower Aldridge fine grain quartzite and siltstone. Drag folds may be important in hosting some of the mineralization as in the case of the Warren workings where a 16 meter wide, highly mineralized quartz structure was mapped and sampled occurring proximal to a drag fold. Here the sulphide assemblage consists, in order of abundance: arsenopyrite, galena, sphalerite and pyrite. The quartz structure is traceable for at least 150 meters before it is covered by talus material. At a lower elevation some 300 meters southwest of Warren workings, several old trenches were located cutting a shallow dipping, massive quartz structure hosting chalcopyrite, pyrite and arsenopyrite with some very fine bladed tourmaline crystals. This structure is hosted in a gabbroic sill (Moyie Intrusion) and distal to the thrust fault. Grab Samples assayed 6.00% Pb, 1.61% Zn and 37.2 g/tonne Ag.

The Gold Ledge workings are also structurally controlled and believed to be in a similar structural setting as the Warren workings and suggest drag folding. However, here, there is more evidence of brittle deformation and the quartz veins not as massive as the Warren instead display numerous sub-parallel narrow (1 to 0.5 meters) veins across several meters with associated anastomosing quartz veinlets. The brecciated host rock composed of quartzite and siltstone is partly replaced by sulphide mineralization adjacent to the quartz veins. The sulphide assemblage is similar to Warren mineralization.

Underground workings at the Gold Ledge consist of a 41m drift with a 14m wide crosscut. The crosscut exposes 2.4m of quartz filled breccia and 7.6m of fractured quartz. Gold values up to 34g/tonne are reported at the main Gold Ledge workings by previous selected sampling. Grab Samples from talus returned 4.97% Pb and 52.8 g/tonne silver.

Approximately 1.5km southwest of the Gold Ledge Workings is a series of short underground adits and shafts, which we refer to as the Lake Zone. Several character grab samples from the dump assayed 99.5g/tonne silver with 3.61 to 5.42% Pb and 6.56 to 9.61% Zinc. One sample ran 1.18% Copper.

The previously known underground workings known as the Blue Peter and Mystery returned grab samples assaying over 1% (up to 2.48% Cu) Copper with variable gold (from trace to 1.423 g/tonne) and silver values. However a previously undocumented relatively wide east-west trending pyritic zone (now called St. Mary Zone) was noted as being investigated in the old days by 3 adits up along the mountain side. Samples of fine muck from the upper adit assayed 3.913 g/tonne gold with 8.3 g/tonne Ag, 0.05% Cu with very low Arsenopyrite (49ppm). A grab sample from the lowest adit on the St. Mary Zone assayed 1.470 g/tonne gold.

Based on the preliminary surveys, the main thrust fault and subsidiary East-West zones important mineral-bearing structures as indicated by old workings that are found along 8 kilometer strike length. As well, some limited reconnaissance prospecting to the north along strike of the structure has found additional sulphide mineralization to suggest possible extension of quartz-mineral-bearing structures to the north.

Prospecting traverses were completed on Claim 1017219 (road CP102) GPS 0555405E by 5497304N at 1250m elevation. The entire road is composed of Middle Aldridge quartzite and conglomerate. This area is just east of the Clair West (Dominion) minfile, northwest of the west end of St. Mary Lake.

South of St. Mary Lake (see sample description in Appendix III), prospecting traverses were completed north of the Pauli Vent showing along recent logging roads and major landslides which have exposed bedrock.



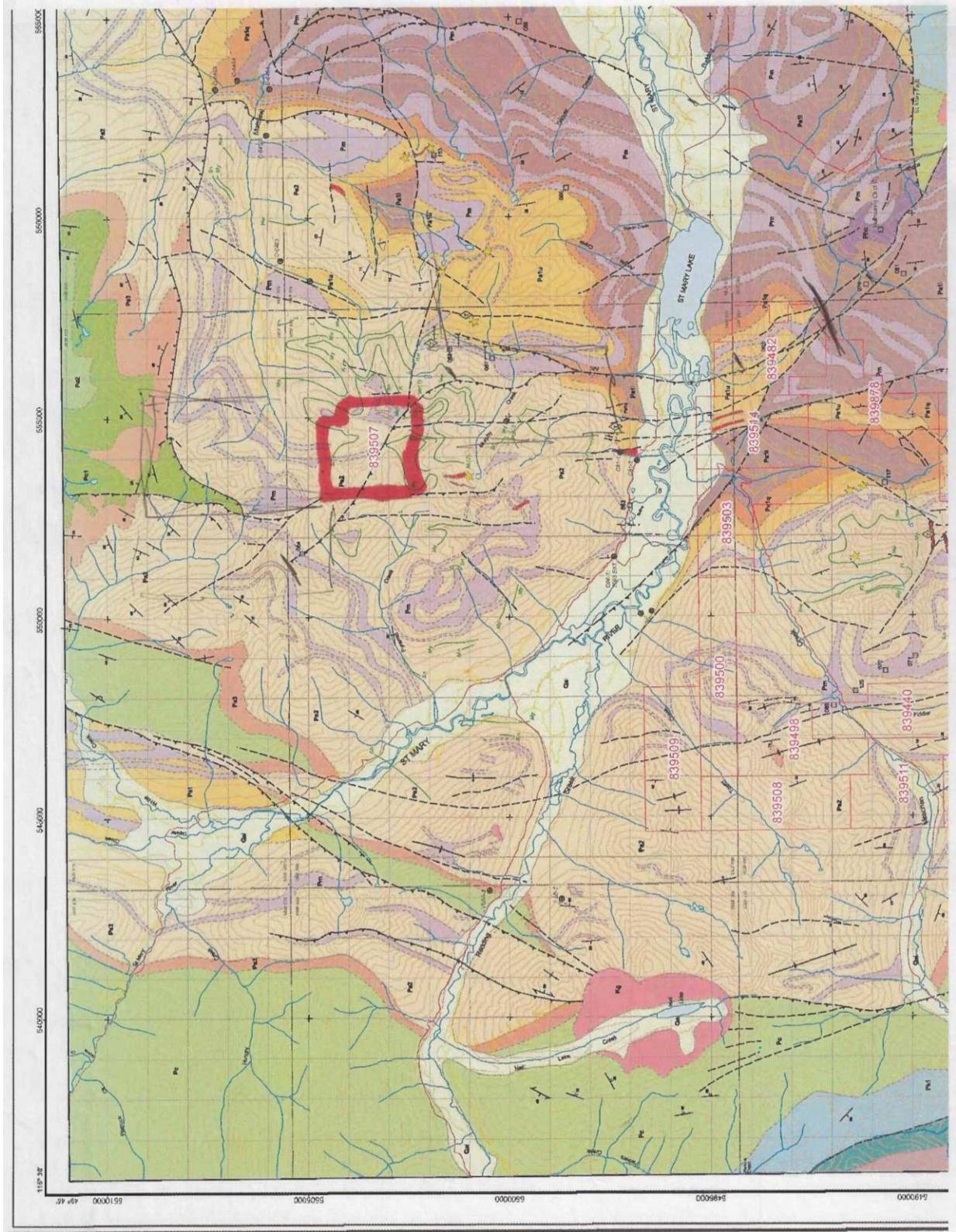


Figure 4 Regional Geology (see legend on Figure 5)

## REGIONAL GEOLOGY

The Gold Ledge Property is located within the Purcell Anticlinorium, a broad, gently north plunging structure with dominantly east verging thrust and fold structures. The Purcell Anticlinorium is cored by the Proterozoic Purcell Supergroup, comprised of a siliciclastic and lesser carbonate sequence at least 12 kilometres thick, deposited in an intracratonic rift basin (the Belt-Purcell Basin) (Figure 1). The strata are preserved in an area 750km long and 550km wide extending from southeastern British Columbia to eastern Washington, Idaho and western Montana.

The claim area is underlain by the Aldridge Formation, the lowermost division of the Purcell Supergroup. The Aldridge Formation is divisible into a lower, middle and upper unit. The lower Aldridge Formation is comprised of thin bedded, rusty weathering, fine-grained quartzitic wackes, siltstones and some argillites. A white to grey weathering quartzite marker unit (the "Footwall Quartzite") lies approximately 150 metres below the stratigraphic top of the lower Aldridge. The uppermost part of the lower Aldridge Formation locally includes a package of laminated siltstones and mudstones, known in the camp as the "Sullivan Horizon". The massive sulphide ore body of the Sullivan deposit is hosted in this package, immediately below the top of the lower Aldridge.

In the absence of the Sullivan Horizon, the lower Aldridge sediments grade upward into medium to thin bedded grey weathering quartz wackes, quartzitic wackes, wackes and siltstones with local argillite. The middle Aldridge Formation is rather monotonous in character and about 2,500m to 3,500m thick. Within the middle Aldridge Formation are distinctive grey laminated siltstone (marker laminites) horizons comprised of thin alternating light and dark laminae. The millimetre-scale patterns of light and dark laminae are distinctive for each marker unit, and can be correlated over considerable distances. At the Sullivan Mine area, the various markers occur at known and measured distances above the LMC. The markers (once identified) can be used throughout the basin to estimate stratigraphic distance above the LMC.

The upper Aldridge Formation, consists of rusty weathering and dark grey, thin-bedded siltstone and argillite and is typically 250m to 500m thick.

Sedimentary fragmental units are known to occur at or near the LMC in the region. Significant among these is the Clair fragmental (or Clair conglomerate), southwest of St. Mary Lake. This conformable fragmental unit comprises variably altered and sized clasts supported in a massive wacke matrix with disseminated pyrrhotite. Fragments are mostly small and rounded siltstone and wacke, and some are albitized, tourmalinized or pyrite-pyrrhotite altered. Larger, angular mudstone rip-up clasts are also common. The Clair fragmental continues across St. Mary River to the south part of the Gold Ledge Property. The unit is quite thick (50m?) north of the St. Mary River, then thins northeastward along the exposure of the LMC. South of Murphy Creek, the fragmental bed is no more than 1 or 2m thick.

Both the lower and middle Aldridge Formations are intruded by Middle Proterozoic dioritic to gabbroic sills (Moyie intrusions). These sills (and rarely, dykes) can vary in thickness from a few to several hundred metres. The sills are interpreted to be syn-depositional, and to have intruded unlithified sediments without any loss of sedimentary stratigraphy.







In the Goldledge region, the lower and middle Aldridge Formations are carried in the hanging wall of the St. Mary Fault, a southeasterly directed thrust fault that may be related to major basement structures. The Hall Lake Fault, another major thrust structure, lies to the northwest. Between the St. Mary and Hall Lake faults, the Aldridge strata are characterized by open north trending folds, and gently to moderately dipping fault bounded blocks.

The Kimberley Fault extends along the north boundary of the Gold Ledge Property, eastward to the Sullivan Mine. The Kimberley Fault has a complex history of reactivation. The last motion on the fault was left lateral and normal (north side down). The northern part of the Sullivan ore body is offset along this fault, where approximately 3000m of net displacement has been documented. A number of north and northeast trending, steep faults occur in the mine area (e.g., the Sullivan Fault), many with a west side down displacement. The age of this faulting varies, but at least some are considered to be syn-depositional, basin bounding growth faults that formed the boundary of smaller (second and third order) graben basins within the Belt-Purcell basin, and thus localised mineralization at Sullivan. Many north trending faults occur on the Gold Ledge Property, and some are thought to be analogous to the Sullivan Fault.

Although several deformational episodes are documented in the region, open folds and steep block faults are the most obvious structures at a megascopic scale. These are related to Mesozoic compression and Tertiary extension, respectively. At the outcrop scale, foliation is variably developed. The best developed foliation generally occurs adjacent to and within fault and shear zones. Open tectonic folds and soft-sediment folds are also evident at the outcrop scale.

The metamorphic grade is regionally within the greenschist facies. A metamorphic culmination of sillimanite grade occurs southeast of the Gold Ledge Property, at the confluence of Matthew Creek and the St. Mary River valley. The amphibolite facies metamorphic and structural features suggest a core complex, or the core of a large-scale fold structure. Plutonism may also be a factor.

The Proterozoic Hell Roaring Creek granodioritic pegmatites and related dykes, located south of the St. Mary River, intrude the Aldridge Formation and Moyie gabbro sills. The youngest intrusive rocks in the area are Cretaceous, including the White Creek batholith, the Hall Lake pluton and the Reade Lake stock. Thin lamprophyre dykes of probable Cretaceous age intrude all units.

The Sullivan deposit is the only major base metal deposit in the region, at an estimated 170 million tonnes grading 5.5% zinc, 5.8% lead and 59 g/t silver. The deposit is hosted by siltstone and argillite of the lower Aldridge Formation, immediately below the contact with the middle Aldridge Formation. The Sullivan deposit is interpreted to be a sedimentary exhalative (Sedex) sulphide deposit formed in a fault-controlled sub-basin of the Belt-Purcell basin.

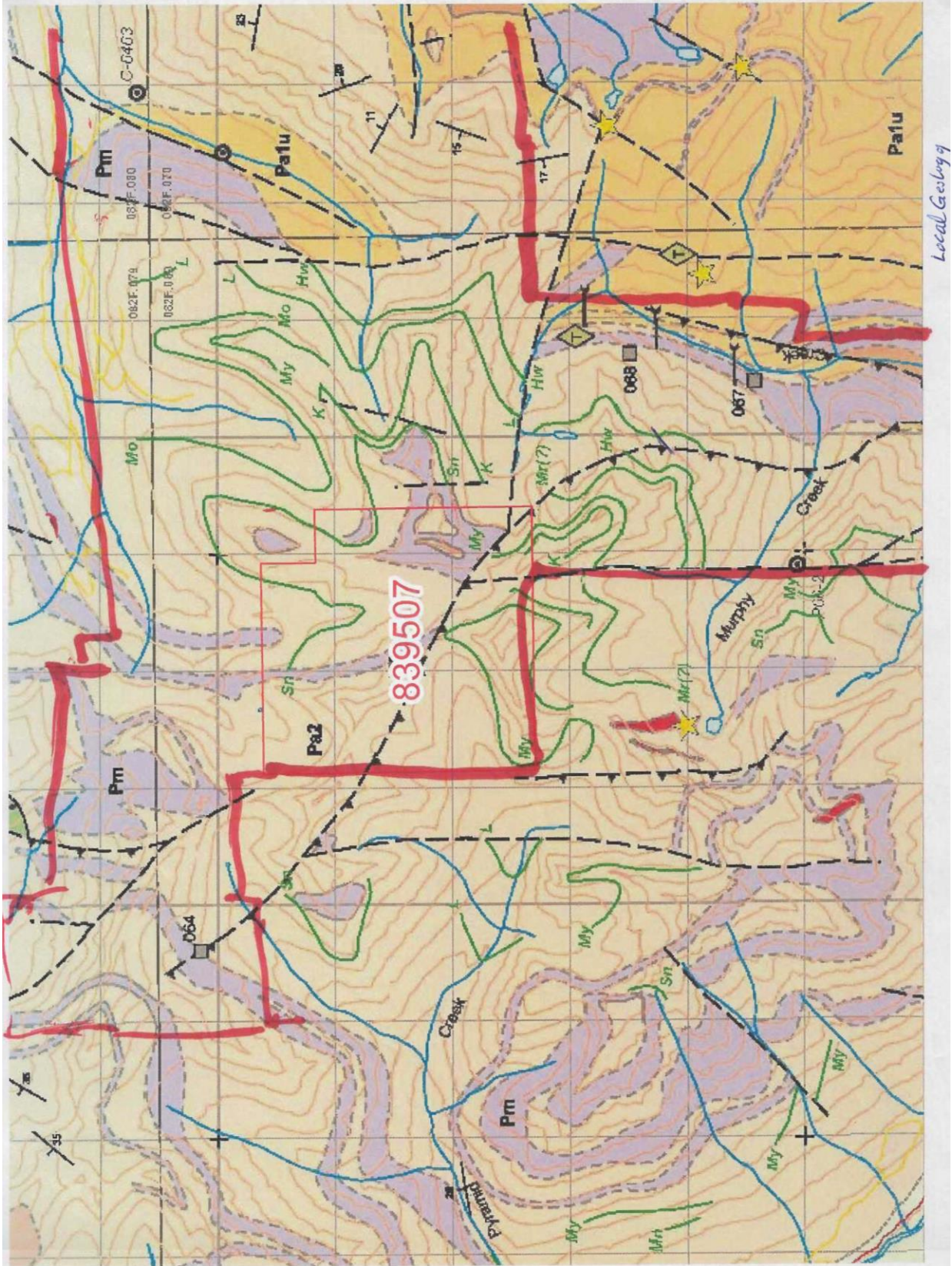


Figure 6 Local Geology

## LOCAL GEOLOGY

### Stratigraphy

The property is mainly underlain by the Aldridge Formation. The Aldridge Formation has the sedimentological characteristics of a flysch sequence. The Formation in general is a monotonous and repetitious sequence of alternating beds of fine to medium grained siltstone and argillite, with lesser very fine and coarse grained quartz arenite. Beds show sharply defined bottom surfaces which are commonly marked by abundant sole markings. Internal structures are generally indistinct and bed surface features such as ripple marks are rare. Graded bedding occurs throughout most of the stratigraphic sequence.

The Aldridge Formation is sub-divided into three map units; the Lower, Middle and Upper Aldridge. Sediments belonging to the Upper Aldridge sub-division do not occur on the property.

The Lower Aldridge sediments are a rhythmic succession of thin to medium bedded siltstones that are typically graded and very fine grained. Interbedded with the rhythmic sequences of graded siltstone are finely parallel laminated sequences of very thin bedded argillite. The argillite is generally pyrrhotiferous and characteristically weathers rusty. The Lower Aldridge unit is thought to be more than 7 000 feet thick, however, the base of the unit has not been documented.

The base of the Middle Aldridge is marked by the abrupt appearance of medium to thick beds of graded arenaceous siltstone. The Middle Aldridge unit is approximately 10 000 feet thick, consisting mainly of medium to thick bedded siltstone with scattered sequences of thin bedded, rusty weathering argillite. Internal texture and structure and bed forms are consistent with the A-E turbidite structure described by Bouma (1962).

On the property, an economically significant fragmental unit is developed at the contact between the Middle and Lower Aldridge Formations (this contact is commonly referred to as Sullivan Time or Sullivan Horizon). In drill holes the fragmental unit can be as thick as 260 meters. The fragmental formation consists of interlayered coarse grained quartzite, grits and clast to matrix supported conglomerate. This unit resembles the fragmental rocks that are associated with the Sullivan Orebody located 14 km northwest of the Pauli Vent.

### INTRUSIVE ROCKS

#### Gabbro (Moyie Intrusives)

On the property, gabbro intrusions comprise 30% to 40% of the Lower Aldridge unit and form from approximately 10% to 15% of the Middle Aldridge unit. The gabbro intrusions are mainly sills that are slightly discordant and gabbro dykes also occur but are rare. These sills can range from a few meters thick to several hundred meters thick. The sills are generally medium to coarsely grained with finer grained margins. The Moyie Intrusives have isotopic ages indistinguishable from the host Aldridge rocks (approximately 1.433 billion, Zartment, 1982), it is generally accepted that they are coeval with the deposition of the Upper Aldridge Formation.



## **Hellroaring Creek Stock**

The Hellroaring Creek Stock is located immediately southeast of the Pauli Vent. The Stock varies between a coarse grained granodiorite and a pegmatite. Aplite is locally common near the Stock's contacts. In general, the rock is composed of sodic plagioclase and microcline, quartz, muscovite and tourmaline with minor garnet, rare euhedral, beryl and pyrite. The Stock is dated at 1.300 billion and probably accompanied a major metamorphic event effecting the Aldridge sediments and Moyie Sills.

## **STRUCTURE**

Aldridge sediments on the claims form the crest and west limb of a major north-trending anticline. Sediments on the western part of the claim block strike north and dip west between 20° and 40°. On the east side of the claims, sediments strike easterly and dip north between 25° and 40°. Structure on the property is dominated by the northwest striking Pauli Horst. The Horst is produced by two parallel, steeply dipping reverse faults ranging between 500 meters and 800 meters apart. The Horst moves Lower Aldridge rocks up into juxtaposition with Middle Aldridge rocks on its northeast and southwest flanks.

The Pauli Horst is the most economically significant structure on the property. The structure hosts the sulphide-rich Pauli Vent, Boy Scout Mine Pb, Zn, Ag, Au and the Bronco Pb-Zn-Ag showing. The Hellroaring Stock is also hosted by the Pauli Horst.

## **METAMORPHISM**

In general, the rocks on the property are metamorphosed to biotite and garnet zone greenschist facies. The metamorphic grade on the property increases to the sillimanite facies in the area adjacent to Hellroaring Pegmatite-Granodiorite Stock.

## **MINERALIZATION AND ALTERATION**

Two types of mineralization occur on the property. Type one are fissure veins developed in shear zones. The Dan Howe prospect and the Boy Scout Mine are two examples of shear zone-hosted fissure veins. These deposits consist of rapidly pinching and swelling massive sulphide veins rarely more than 2 meters thick. The veins consist mainly of massive to semi-massive galena, sphalerite, pyrrhotite, pyrite and arsenopyrite with minor quartz-siderite gangue.

Type two base metal mineralization is hosted by the Aldridge Formation sediments. On the northwest corner of the property two drill holes H93-7 and 8 were drilled to test Sullivan Time. These holes cut a thick (250 meter+) sequence of Aldridge fragmental, grits and quartzite at Sullivan Time. Weakly disseminated pyrrhotite, sphalerite, galena and arsenopyrite occurs throughout the fragmental complex. Sullivan-type albite and tourmalinite alteration is also widely scattered throughout the fragmental complex.

The Pauli Vent complex also hosts type two sulphide mineralization, mainly pyrrhotite and arsenopyrite, with lessor sphalerite and rare galena. The Pauli Vent in drill core is 200+ meters thick, and consists of interlayered coarse grained quartzites, fragmental units and highly disrupted black argillite and silty black argillite. The quartzite units are generally silicified, sericitized and sulphide flooded mainly by pyrrhotite and arsenopyrite with lessor sphalerite and rare galena. In the fragmental units, sulphides,

generally pyrrhotite and arsenopyrite with minor sphalerite occurs mainly in the matrix. Locally sulphides will form as much as 50% of the fragmental matrix.

Three diamond drill holes were drilled through the Pauli Vent complex. However, most of the mineralization in the holes was not assayed. **Hole P99-6** assayed 168.95 m to 169.1m, 37 ppm Pb, 8431 ppm Zn, and from 170.7 m to 174.6 m assayed best Pb 25 ppm, best Zn 157.0 ppm.

**Hole P99-7** assayed 90.55 m to 99.9 m, nil Pb, best Zn 0.7%. **Hole 99-8** no assays.

**Note:** These holes are stored on the Vine property, near Cranbrook, B.C.

## **HISTORICAL WORK ON THE PROPERTY**

The northwest corner of the current claim block was explored by Cominco from 1978 to 1985. Cominco completed a UTEM geophysical survey and completed two diamond drill holes totalling 764 meters. The holes intersected a thick sequence of Aldridge fragmental rock at Sullivan Time. However, no ore grade base metal sulphides were discovered.

In 1986, Esso Minerals re-staked the area described above. Esso's exploration program focused on the fragmental horizon previously discovered by Cominco. Esso's work consisted of geological mapping, rock and stream silt geochemistry and a 3 000 meter reconnaissance EM geophysical survey. Esso's conclusion was the Lower-Middle Aldridge contact marked by the large Sullivan-type fragmental unit hold good potential for a large Sullivan massive sulphide-type deposit. However, Esso did not follow up on their optimistic conclusions.

In 1991, Kokanee Exploration Ltd., an ancestral company to Quest International Resources Corp., staked claims to cover the above described area and the large unexplored area to the south. In the Fall of 1991, Kokanee Explorations optioned the property to Metall Mining Corp. Metall targeted the fragmental horizon and collared two drill holes, approximately 1 km southwest of Cominco's 1978 drill hole. These holes discovered uneconomic Pb-Zn mineralization within a thick fragmental complex.

In 1992, Metall completed two pulse EM grids totalling 12 line kms. Three anomalies were discovered and one was drilled as described above. See attached Overlay.

In 1996, Quest International Resources Corp. conducted a prospecting program in the unexplored southeastern portion of the current property. This work discovered a number of pyrrhotite-arsenopyrite-rich fragmental boulders.

In 1997, Quest International Resources Corp. completed a soil geochemical grid which did help discover the source of the mineralized fragmental boulders. The source of these float boulders appears to be the Pauli Vent. See attached Overlay and Geology Map.

To test the Pauli Vent in 1999, Quest International Resources Corp. drilled three diamond drill holes totalling 1085.2 meters.

In 2000, Black Bull Resources Ltd., completed a detailed geological mapping program over the Pauli Vent and surrounding area. See attached Geology Map.

## HISTORICAL WORK RESULTS

Regionally the Aldridge Formation has three stratigraphic horizons that are known to host sedex massive sulphide deposits. Locally, these horizons are known as the Kootenay King, Sullivan and Footwall Quartzites. Detailed geological mapping clearly traces both the Sullivan and Footwall quartzite horizons within the current claim block. Geological mapping, supported by diamond drilling has identified the Pauli Horst. The Pauli Horst is a Sullivan-type feeder structure that hosts base metal veins, the Pauli Vent, the Hellroaring pegmatitic granodiorite stock and Sullivan-type alteration such as tourmalinization and albitization. Grid soil geochemistry has located Zn soil anomalies along the trace of the Pauli Horst, and along the trace of the Footwall Quartzite horizon. However, the soil grids did not cover most of the sub-cropping Sullivan Horizon. See attached Overlay and Geology Map.

Historical geophysical work is restricted to the northern part of the current claim block. The work consisted of two pulse EM grids totalling 12 km. Three anomalies were located. However, the Sullivan Horizon for the most part, sub-crops between the grids. The geophysicist reports that an anomalous increase in response amplitude at the end of the line OON on the drill hole grid suggests the possible existence of additional conductors between the two grids.

**Note:** Geological mapping shows the trace of the Sullivan Horizon is between the two grids. See Overlay.

The Gold Ledge Property is underlain by Purcell Supergroup metasediments of the lower and middle Aldridge Formations. The Aldridge Formation sediments dip gently to moderately and mainly westward within a series of fault hounded blocks. North and northeast trending open folds occur locally. The lower Aldridge is restricted to the east side of the property. The middle Aldridge outcrops elsewhere. Several Moyie sills intrude the Aldridge Formation (Figure 2).

Several north and east trending faults serve to divide the property into gently dipping blocks. Among the north trending faults, the Pyramid and Murphy Pass Faults are down dropped to the east. The Alki and AC Faults are down dropped to the west. The Pyramid and Alki Faults form the west and east boundaries to the Clair graben. This is thought to be a Proterozoic aged structure. The Patra Fault is a northwest trending, northeasterly directed thrust fault associated with a wide zone of alteration and shearing. At least 300m of vertical throw can be demonstrated. The Kimberley Fault is an east trending, north dipping normal fault. Most other major east trending faults on the property also indicate north-side-down offset.

Several mineral showings occur within the property boundaries and are listed in the B.C. MINFILE (Figure 2). They are essentially all quartz (+/- carbonate) sulphide veins (chalcopyrite, galena, arsenopyrite) within Aldridge sediments, at or near contacts with gabbros. The showings are: Warren-Wolmer (082FNE064), Mystery (082FNE067), Blue Peter (082FNE068) and Gold Ledge (082FNE087). The Dominion Crown Grants (MINFILE No. 082FNE063) are on the south side of the Gold Ledge Property and host lead and zinc mineralization in fractures, as well as tungsten mineralization associated with a garnet skarn or alteration zone.

The Gold Ledge Project is a mainly gold exploration project located in the historical highly endowed mineral region of the Belt Purcell Basin, Purcell Mountains, south-eastern British Columbia. The Company is pleased to announce that its' Phase I exploration project has rediscovered several significant



gold mineral showings and workings consisting of trenches, pits and short adits and has defined an important mineral-bearing major fault system.

The lower and southern portion of the claim group is easily accessible from the town of Cranbrook, some half-hour drive along the St. Mary Lake Forest Service Road. Two of the old gold workings, the Mystery and Blue Peter, can be accessed by an old horse pack trail leading from the Alkai Creek logging roads. Some of the mineral prospects such as the Gold Ledge and Warren workings are located at higher elevations and are presently best accessible by helicopter, a 15 minute ferry time from Cranbrook. A nearby old logging road up the west branch of Matthew Creek comes within 3km of the Gold Ledge Zone.

Phase I exploration consisted of reconnaissance sampling of the old workings and preliminary geological and structural mapping. The workings and associated mineralization are spatially related to a major north-northwest trending, second order thrust fault and lower order cross-cutting (East-West), offset faults. The offset faults have developed drag folds along the thrust structure producing brittle deformation with mineralized quartz structures hosted in the Lower Aldridge fine grain quartzite and siltstone. Drag folds may be important in hosting some of the mineralization as in the case of the Warren workings where a 16 meter wide, highly mineralized quartz structure was mapped and sampled occurring proximal to a drag fold. Here the sulphide assemblage consists, in order of abundance: arsenopyrite, galena, sphalerite and pyrite. The quartz structure is traceable for at least 150 meters before it is covered by talus material. At a lower elevation some 300 meters southwest of Warren workings, several old trenches were located cutting a shallow dipping, massive quartz structure hosting chalcopyrite, pyrite and arsenopyrite with some very fine bladed tourmaline crystals. This structure is hosted in a gabbroic sill (Moyie Intrusion) and distal to the thrust fault. Grab Samples assayed 6.00% Pb, 1.61% Zn and 37.2 g/tonne Ag.

The Gold Ledge workings are also structurally controlled and believed to be in a similar structural setting as the Warren workings and suggest drag folding. However, here, there is more evidence of brittle deformation and the quartz veins not as massive as the Warren instead display numerous sub-parallel narrow (1 to 0.5 meters) veins across several meters with associated anastomosing quartz veinlets. The brecciated host rock composed of quartzite and siltstone is partly replaced by sulphide mineralization adjacent to the quartz veins. The sulphide assemblage is similar to Warren mineralization.

Underground workings at the Gold Ledge consist of a 41m drift with a 14m wide crosscut. The crosscut exposes 2.4m of quartz filled breccia and 7.6m of fractured quartz. Gold values up to 34g/tonne are reported at the main Gold Ledge workings by previous selected sampling. Grab Samples from talus returned 4.97% Pb and 52.8 g/tonne silver.

Approximately 1.5km southwest of the Gold Ledge Workings is a series of short underground adits and shafts, which we refer to as the Lake Zone. Several character grab samples from the dump assayed 99.5g/tonne silver with 3.61 to 5.42% Pb and 6.56 to 9.61% Zinc. One sample ran 1.18% Copper.

The previously known underground workings known as the Blue Peter and Mystery returned grab samples assaying over 1% (up to 2.48% Cu) Copper with variable gold (from trace to 1.423 g/tonne) and silver values. However a previously undocumented relatively wide east-west trending pyritic zone (now called St. Mary Zone) was noted as being investigated in the old days by 3 adits up along the mountain side. Samples of fine muck from the upper adit assayed 3.913 g/tonne gold with 8.3 g/tonne Ag, 0.05%

Cu with very low Arsenopyrite (49ppm). A grab sample from the lowest adit on the St. Mary Zone assayed 1.470 g/tonne gold.

Based on the preliminary surveys, the main thrust fault and subsidiary East-West zones important mineral-bearing structures as indicated by old workings that are found along 8 kilometer strike length. As well, some limited reconnaissance prospecting to the north along strike of the structure has found additional sulphide mineralization to suggest possible extension of quartz-mineral-bearing structures to the north.

Mapping was conducted at a scale of 1:10,000 using TRIM base maps and air photos in 2000. The geological maps of Gal and Weidner (1999) have been amended to include the new information and interpretations. The geology map is shown as Figure ??.

The following lithological descriptions are taken from Gal and Weidner (1999).

#### Lower Aldridge (A1)

The lower Aldridge strata are thin bedded, fine grained and typically rusty weathering due to disseminated pyrrhotite. Lithologies are mainly wacke, quartzitic wacke and siltstone. Size grading, cross beds and laminations are locally observed. Abundant disseminated biotite and muscovite occur in most beds. Schistose textures are locally observed. The lower Aldridge Formation (A1) outcrops on the east side of the Gold Ledge Property: east of Alki Creek and south of the Bootleg Fault, south of Murphy Creek on the west side of Alki Creek, and in the valley of "East Creek". Medium bedded grey weathering quartzite was mapped in East Creek and west of Alki Creek, and has been tentatively correlated with the Footwall Quartzite (FWQ).

#### Middle Aldridge (A2)

The A2 stratigraphy is comprised of typically medium to thin bedded, fine to medium grained and rusty or grey-brown weathering quartz wackes, quartzitic wackes, sub-wackes, siltstones and minor argillites. Much of the A2 metasediments comprise thin to medium beds of quartz wacke or quartzitic wacke sometimes coupled with an overlying, thin bed of laminated siltstone. They can be described as A-E turbidites. The A2 beds locally display normal grading, load structures, ripples, cross beds and slumped bedding features. Siltstone and argillite sequences are often rusty weathering, but there are few siltstone and argillite beds that are thicker than 20cm. The A2 quartz wackes and quartzitic wackes are generally less micaceous than the corresponding A1 lithologies.

From within the A2, four laminite markers were identified. A further three samples were tentatively correlated. Appendix II contains a list of laminate locations and identifications.

#### Fragmentals (Frag)

The Clair fragmental is interpreted to continue onto the Gold Ledge Property, northwest of St. Mary Lake. The best exposure is at 554150, 5497450N, where thick (up to 50m?) rusty fragmental outcrops at the LMC, on the west side of a steep gully. The fragmental here has a variety of altered clasts, including pyrrhotitized ones, up to a few cm in size. The fragmental bed(s) decrease in thickness as the LMC is traced east and north. South of Murphy Creek, the

fragmental is no more than 1 or 2m thick, with very few fragments in a massive micaceous wacke matrix.

On the eastern valley slope above East Creek, fragmental units were not identified at the LMC. Northwest of Bootleg Mtn, there was some fragmental observed in outcrop and float. The fragmental here has few fragments and is interpreted to be thin. Nearby is a fragmental unit within the middle Aldridge (558950E, 5500700N). This unit is about 40-50m stratigraphically above the LMC. The rock is grey to slightly rusty weathering, medium grained quartzitic wacke matrix with many small rounded fragments.

The Murphy fragmental is a conformable body of stacked fragmental beds occurring within the A2, at or near the stratigraphic level of the Moyie marker, some 760m above the LMC. Individual fragmental beds range from 10cm to several metres thick. They are massive, rusty weathering quartzitic wacke beds, with a variety of matrix-supported clasts. Albite, sericite and pyrrhotite altered clasts are common. Tourmaline was also observed. The unit was traced from the north side of Murphy Lake to the ridge at 553500E, 5501600N.

Southwest of the Murphy fragmental another stratiform fragmental sheet was mapped (552750E, 5499750N) that featured strong albite, sericite and biotite alteration.

#### Gabbro (gb)

The Moyie intrusions were observed in the lower and middle Aldridge Formation as sills and more rarely, dikes. Compositionally, these rocks have been defined as gabbro to diorite, although the field term gabbro is here used to indicate all Moyie intrusions. They are dark grey to dark greenish brown on fresh surfaces and weather brown, dark grey or rusty. The intrusions are generally medium to coarse grained, although thin sills (and locally developed chill margins) are fine grained. Textures are equigranular to hornblende (and more rarely plagioclase) porphyritic. Biotite, chlorite and quartz occur as alteration and/or metamorphic phases. Disseminated pyrrhotite and traces of chalcopyrite have been observed. The Moyie intrusions are non-magnetic except where considerable disseminated pyrrhotite is present.

Along Alki Creek a number of thick gabbro sills occur, offset by or possibly occupying the AC Fault. On the east side of the AC Fault, thick gabbros intrude the Al. On the west side south of Murphy Creek, a gabbro sill outcrops not far below the LMC. North of Murphy Creek, a different gabbro (probably the "Hiawatha" sill so named because of its proximity to the Hiawatha marker) has A2 in the immediate hanging wall.

On the west side of East Creek, the "Hiawatha" sill outcrops between the East Creek and Alki Faults. This 250m thick sill was encountered in a previous drill hole (PP-99-1), but not in PP-00-1. It is inferred that the sill ramps or arches upward through the stratigraphy to the south and west.

The "Sundown" sill(s) outcrops at several places on the property, in both the hanging and footwalls of the Patra Fault.

Gabbro dykes up to 20m wide, but normally thinner, were mapped in Murphy Pass and at the headwaters of Alki Creek (554800E, 5502450N; and 555000E, 5502800N). It is probable that

these dykes intrude along or near fault zones. On the ridge between Akli Creek and East Creek, a sheared gabbro lies in the Alki Fault zone.

#### Lamprophyre (1Ph)

North trending, 1-2 metre wide lamprophyre dykes occur at 552940E, 5501770N; and 555200E, 5497700N. They are also recognized in drill core, and were likely intruded along fault zones.

#### Structure

The bedding planes throughout the Gold Ledge Property indicate gently to moderately dipping blocks of sediments bounded by faults. Dips are mostly moderate to shallowly westward and northwestward. In the southwestern corner of the property along the St. Mary River valley, bedding dips moderately east-northeast. Other localised dip reversals and anomalous strike directions indicate folds. Local dip reversals are common directly adjacent to faults and some large gabbro sills. In the latter case, these are thought to be due to soft sediment deformation.

Foliation (cleavage) is almost always developed within finer grained siltstone units, and in some cases the foliation is refracted through alternating weak-siltstone interbeds. Foliations are in most cases steeper than the corresponding bedding, while dipping in the same direction. This fabric is considered to be indicative of regional east-southeast verging fold structures. In most cases, strongly developed foliations are due to nearby fault zones, and provided an outcrop-scale indication of the attitude of the zone.

Few large-scale folds were mapped; these are generally gentle open flexures. The axial traces of mapped folds trend north to northwest.

Major faults on the property trend both north and east. The east trending faults are mostly north-side-down, while the north trending faults display both east-side and west-side-down displacements. The major faults are discussed below.

#### East Trending Faults

The Kimberley Fault is exposed along the north side of the property. On the west side of the north branch of Matthew Creek (562300E3, 5507450N), strong shearing and chlorite alteration, and associated quartz veining are evident in the fault zone that appears to dip approximately 40° north. On the Gold Ledge Property, A2 strata occur in both hangingwall and footwall of the fault.

The Matthew Creek Fault is inferred from the apparent offset of the LMC on the east side of East Creek; to the north, where A2 outcrops on the north side of Matthew Creek. Thus, north-side-down offset is indicated. Further to the west, there does not appear to be any offset along this fault, as gabbro sills can be traced across the Matthew Creek valley.

The Bootleg Fault truncates the LMC on the east side of the property, and runs up the upper Alki Creek valley. At the head of Alki Creek, there may be as much as 100m of vertical offset, evidenced by the separation of the Sundown marker horizon across the fault. North-side-down displacement is indicated.



The Murphy Creek Fault was inferred from relations observed in drill hole PP-00-2, namely, the increased distance from the Fringe marker to the LMC. A lamprophyre dyke observed in drill core probably marks the fault zone.

#### North Trending Faults

The Pyramid Fault is indicated by an increasing degree of steep dipping foliations at the head of Pyramid Creek. East side down displacement, with up to 200m of vertical throw, is indicated by the offset of marker beds.

The Murphy Pass Fault is exposed in the headwaters of Matthew Creek (554600E, 5503300N). Strongly developed west-dipping foliation and chlorite, sericite and albite alteration were observed, but the fault is more difficult to trace to the south. It was intersected in drill hole PP-00-2, as a steeply dipping clay gouge zone. The offset is probably minor, on the order of 50m as indicated by the offset of marker units on the ridge south of Murphy Creek.

The AC Fault lies mostly in the valley of Alki Creek, where it is unexposed. It separates east and west dipping A1 strata on the lower part of Alki Creek. Where measured, foliations indicate a sub-vertical dip. West-side-down displacement is indicated by the juxtaposition of the LMC on the west side of Alki Creek, with A1 on the east side. The fault may be offset to the north by the Bootleg Fault, or it may merge with the Alki Fault.

The Alki Fault is considered to be the eastern bounding fault of the Clair graben. Evidence from drill holes suggests that the fault dips about 40° to the west. In outcrop, fault related foliations dip about 60-70° west. West-side-down displacement is indicated, with approximately 150m of vertical throw. The fault likely crosses Matthew Creek, and may intersect the Kimberley Fault on the north end of the property.

The East Creek Fault is a possible branch of the Alki Creek, and also has west-side-down motion. Middle and lower Aldridge Formations are juxtaposed along East Creek. In the order of 100m of vertical displacement is indicated. Strong foliation and fractures mark the fault zone at 558750E, 5505700N.

The Patra thrust fault trends northwestward across the Pyramid Property. On some earlier maps it is referred to as the Alki Fault. The fault zone is fairly well exposed from the headwaters of Alki Creek to Murphy Creek. It is marked by strong foliation and shearing, chloritic (+/- sericite, albite) alteration, and quartz veining. Shear zones and foliation dip 60-80° in outcrop. Strata are folded on both sides of the fault, and gabbros are associated with the trace of the fault zone. Alteration and disturbance seem to occur over a wider zone in the footwall than in the hangingwall. At the Wolmer-Warren showings, quartz sulphide veins occur in a linear zone that may be a splay fault in the footwall of the Patra Fault. At least 300m of vertical offset is indicated by the offset of marker units at the head of Alki Creek. The horizontal displacement is unknown, but it may be considerable. Likewise the timing of this fault relative to others is unclear.

#### Alteration

A regional greenschist facies metamorphism affected all rocks on the property. A high-grade zone characterized by sillimanite has been documented east of the property. Biotite and sericite were commonly observed in quartzitic wackes, sub-wackes and siltstones. Iron oxidation of pyrrhotite in the

Aldridge Formation rocks (especially A1) is ubiquitous. More intense sericite, chlorite and albite alteration was noted within many fault and fracture zones. Albite-sericite-biotite alteration was also observed adjacent to some gabbro sills. Granophyre type alteration, caused by hydrothermal interaction of water saturated host sediments with intruding gabbros, was also observed in A1. The resulting even-grained, “salt and pepper” appearance of the altered sediments confused the contact relations with fine grained, altered, adjacent gabbros. A commonly observed feature in the quartz wackes of the Aldridge Formation were spherical to ellipsoidal “concretions”. These are composed of quartz, feldspar, calcite, biotite, and often garnet, chlorite, sericite, and locally sulphides. The mineral assemblage and unique texture of the concretions suggests that the original composition differed from the host sediments.

## PREVIOUS DIAMOND DRILLING 2000

Beaupre Diamond Drilling Ltd., of Princeton, B.C. was contracted to supply and operate a helicopter transportable Longyear Super 38 drill rig on the Pyramid Property from July 27 to September 17, 2000.

Drilling of hole PP-00-1 commenced on July 27, 2000 and was completed on August 7, 2000. The drill collar is at 557109E, 5504175N, at an elevation of 2146m a.s.l. The hole was drilled at an inclination of  $-77^{\circ}$  on a bearing of  $117^{\circ}$ . NQ sized core was drilled to a depth of 758.5m, with 3.28m of casing. Several Pajari instrument tests were performed to monitor the inclination and azimuth of the drill hole during the drilling. The drill hole produced no water. However, owing to the sensitivity of the Matthew Creek watershed as a municipal water source, the hole was sealed with swelling clay (bentonite) pellets and a metal/rubber hole plug. The casing was left in place and a cap placed on the casing. All trees and timbers were bucked up to lie flat on the ground and facilitate natural re-vegetation, in accordance with the government permits.

Drill hole PP-00-2 was started on August 11 and completed on September 17, 2000. The drill collar is at 554864E, 5500089N, at an elevation of 1940m a.s.l. The hole was drilled at an inclination of  $-74^{\circ}$ , on a bearing of  $086^{\circ}$ . NQ sized core was drilled to a depth of 794.2m with 6.7m of casing. Pajari instrument tests were performed to monitor the inclination and azimuth of the drill hole during the drilling. The drill hole produced no water. Upon completion, the hole was plugged and capped. The drill site at the base of a talus slope resulted in very little surface disturbance.

All core was transported to a nearby camp on the Matthew Creek Forest Service Road. The core was logged, and sample intervals marked out and split with a diamond saw on site. Upon completion of the logging and sampling, the core was transported and is stored at the residence of Mr. Glen Rodgers of Abitibi Mining Corp.

The drill logs are presented in Appendix V. Drill core sample assays are listed in Appendix VI. Graphic drill hole sections are presented in Appendix VII, Map 3a and 3b.

### Drilling Results

#### PP-00-1

A summary log of drill hole PP-00-1 is presented in the table below:

#### Drill log summary for PP-00-1

Interval (m)	Lithology
0-3.28	Casing
3.28-43.7	A2
43.7-44.5	Gabbro
44.5-215.3	A2
215.3-217.7	Gabbro
217.7-241.3	A2
241.3-246.8	Gabbro
246.8-433.1	A2
433.8-440.45	Gabbro

440.45-446.9	A2: highly fractured, some veins and breccia
446.9-453.1	Fault zone, breccia (Alki Fault)
453.1-465.9	Gabbro
465.9-566.5	A1?: altered
566.5-570.5	Gabbro
570.5-582	A1
582-614.2	A1, Sullivan Horizon equivalent?
614.2-688.4	Gabbro
688.4-707	A1, Sullivan Horizon equivalent?
707-758.5	Gabbro
758.5	End of Hole

#### PP-00-1 Summary

Drill Hole PP-00-1 was collared in A2. Marker beds correlated with the Hiawatha marker were collected from the upper part of the hole, from 14 to 55m. The Fringe marker was intersected at 389m. Below this level, at 446.9-453.1m, a major fault zone was encountered. The zone was marked by strong foliation, shearing, chlorite-sericite alteration, and a 6m fault breccia zone, comprising matrix supported sub-angular to rounded fragments, in a soft sericite-clay-chlorite altered matrix. Narrow clay gouge zones were intersected near the centre of this zone. Quartz-sphalerite veins and brecciated vein fragments were collected from the breccia fault zone and from a gabbro in the hanging wall of the fault zone. A gabbro was also intersected in the footwall of the fault zone. Below the gabbro were sericite altered Aldridge sediments. These rocks were interpreted to be part of the lower Aldridge, probably not far below the LMC. The major fault zone below the Fringe marker was thus interpreted to have removed the LMC, and have brought up lower stratigraphy on its footwall (west-side-down displacement). Projection of the core bedding angles of the central gouge zone to surface resulted in good agreement with the mapped trace of the Alki Fault. Thus it is interpreted that the major fault zone cored by PP-00-1 is the Alki Fault. This results in a 40° westward dip for the fault, where it was originally considered to be steeply dipping or sub-vertical. Below the fault zone A1 lithologies were cored, with some thick massive laminated siltstones beds that could be correlated with Sullivan Horizon stratigraphy. Gabbro sequences encountered near the bottom of the hole (from 614.2m) were considered to be the top of a very thick (200-400m?) gabbro that had been intersected within the top part of the A1 in older drill holes. The hole was stopped in gabbro. Thus while the LMC itself was not intersected, it is felt that the top of the A1 was intersected in the footwall of the Alki Fault, along with some possible Sullivan Horizon equivalents.

The determination that the Alki Fault dips moderately west rather than very steeply, led to a reinterpretation of last year's drill hole (PP-99-1), drilled some 2km north of PP-00-1. The Alki Fault here was projected to intersect this drill hole very near an observed fault-fixture breccia zone. The rocks below this fault zone were, upon re-examination, assigned to A1. Within this A1 unit were laminated wacke/siltstone sequences that could be correlated with Sullivan Horizon stratigraphy, including the zone previously identified as the top of the Sullivan Horizon at 912.8m. Furthermore, the drill hole was reinterpreted to end in albitized gabbro (987.3-1005.2m), rather than intermediate intrusive rock.



## PP-00-1 Geochemistry Results

A total of 102 core samples were split, and half of the interval sent to Eco-Tech Labs for 28 element ICP analysis, plus gold by AA-fire assay methods. Sampling was geared mainly toward the upper A1 laminated siltstones, i.e., the Sullivan Horizon equivalents.

The area within and adjacent to the Alki Fault zone, from 43% to 452m, yielded several anomalous Pb, Zn, and Ag values, commonly due to quartz-sulphide vein and fracture mineralization. Sample 18215 yielded 4.56% Pb, 11.6% Zn and 73.9 g/t Ag over 23cm from a quartz-sulphide-chlorite vein within gabbro. Sample 18217 assayed 1.43% Zn over 1.13m from fault zone breccia and fractured rock. Sample 18220 yielded 2.21% Pb, 7.65% Zn and 4.8 ppm Ag over 42cm from semi massive sphalerite and brecciated sulphides within the Alki Fault zone.

Apart from the fault zone area, there were few anomalies. Sample 18182 yielded 138 ppm Pb over 1.55m, starting at 235m. This sample was from a zone of common tourmalinized mudchips and possible pyrrhotized fragments, probably a fragmental bed within A2. Sample 18202 assayed 104ppm Pb and 330ppm As over 1.13m starting at 357m. This sample was collected from an interval displaying disturbed bedding, and including a 13mm quartz veinlet with arsenopyrite. Sample 18236 yielded 40ppm Pb and 277ppm Zn over 1.2a starting at 539.7m. This sample was from laminated siltstone adjacent to a narrow fault zone.

The laminated siltstone-wacke beds within the A1 and below the fault zone, tentatively correlated with Sullivan Horizon lithologies, were generally not anomalous in Pb or Zn.

## PP-00-2

A summary log for PP-00-2 is presented below:

### Drill log summary for PP-00-2

Interval (m)	Lithology
0-6.7	Casing
6.7-155.5	A2
155.5-157.5	Gabbro
157.5-162.6	A2
162.6-217.5	Gabbro
217.5-234.2	A2
234.2-235.1	Gabbro
235.1-428.7	A2
428.7-430.35	Altered Mafic Intrusive – lamprophyre?
430.35-656.85	A2
656.85-669.9	LMC: A1, Sullivan Horizon equivalent
669.9-685.4	A1
685.4-691.0	Fault Zone – A1
691.-696.0	A1
696-714.1	A1, Sullivan Horizon equivalent (?)
714.1-794.2	A1
794.2	EOH

## PP-00-2 Summary

Drill Hole PP-00-2 was collared in A2, below the Lamb marker, which outcrops on the ridge to the south. The Murphy Pass Fault was intersected at 145m, expressed by a gouge zone parallel to the core axis. A 54.6m thick gabbro sill was intersected at 162.9m, which may correlate with the "Hiawatha" sill. The Fringe marker was intersected at 333.5m. Below this level, a few minor shear or gouge zones were intersected, as well as an altered lamprophyre dyke at 428.7m. The lamprophyre was inferred to represent the Murphy Creek Fault. The LMC was intersected at 656.85m. The Fringe to LMC distance in core (283.35m) indicates that the Murphy Creek Fault must have north-side-down motion. Below the LMC approximately 13m of Sullivan Horizon equivalent strata (massive, laminated fine grained biotitic wacke/siltstone) was encountered. Below this was A1 with some laminated beds, then a fault zone at 685.4m. The footwall of the fault zone was A1 with some significant interbedded massive laminated units that were correlative with Sullivan Horizon. The hole was stopped in A1 at 794.2m.

The hole was successful in intersecting the LMC horizon, with 13m of favourable stratigraphy in the footwall of the LMC. However, a fault zone less than 30m below the LMC has removed some of the favourable Sullivan horizon equivalent stratigraphy.

## Previous PP-00-2 Geochemistry Results

A total of 147 core samples were split, and half of the interval sent to Eco-Tech Labs for 28 element ICP analysis, plus gold by AA-fire assay methods. Sampling was geared mainly toward the upper A1 laminated beds that were correlated with the Sullivan Horizon. In addition, other siltstone and fine-grained wackes were sampled. There were few anomalous Pb or Zn values sampled until the LMC. Here there was a fairly abrupt and consistent increase in Pb and Zn at the LMC, in the footwall laminated siltstones. Over 11.43m of laminated rocks (samples 92633-92645), a weighted average of 74ppm Pb and 189ppm Zn was obtained. A central 7.43m of this zone (samples 92636-92643) yielded a weighted average of 87ppm Pb and 226ppm Zn.

Further samples within the A1, and lower laminated units were not anomalous, including those below the fault zone at 685.4m. Some minor anomalies were obtained in A2 samples from 625m to 632m, partly within a siltstone-mudstone package above the LMC. Sample 92596 assayed 154ppm Zn and 48ppm Pb over 1.06m (starting at 625.74m). This sample was from a quartz wacke with a pyrrhotite fragment(?). The adjacent sample 92597 (139ppm Zn, 36ppm Pb over 1.03m, starting at 626.8m) was collected from the top of a siltstone-mudstone unit. Sample 92599 (128ppm Zn, 26ppm Pb, 0.97m, starting at 629.15m) was from this same fine-grained package. Sample 92602 yielded 114ppm Zn, 62ppm Pb over 0.28m, from 631.92m. The sample was fractured and altered by biotite, chlorite and calcite.

The weakly to moderately anomalous nature of the Sullivan Horizon equivalent rocks below the LMC indicate that the drill hole intersected the extreme distal margin of a massive sulphide horizon.



Figure 7 Google Image Key Map



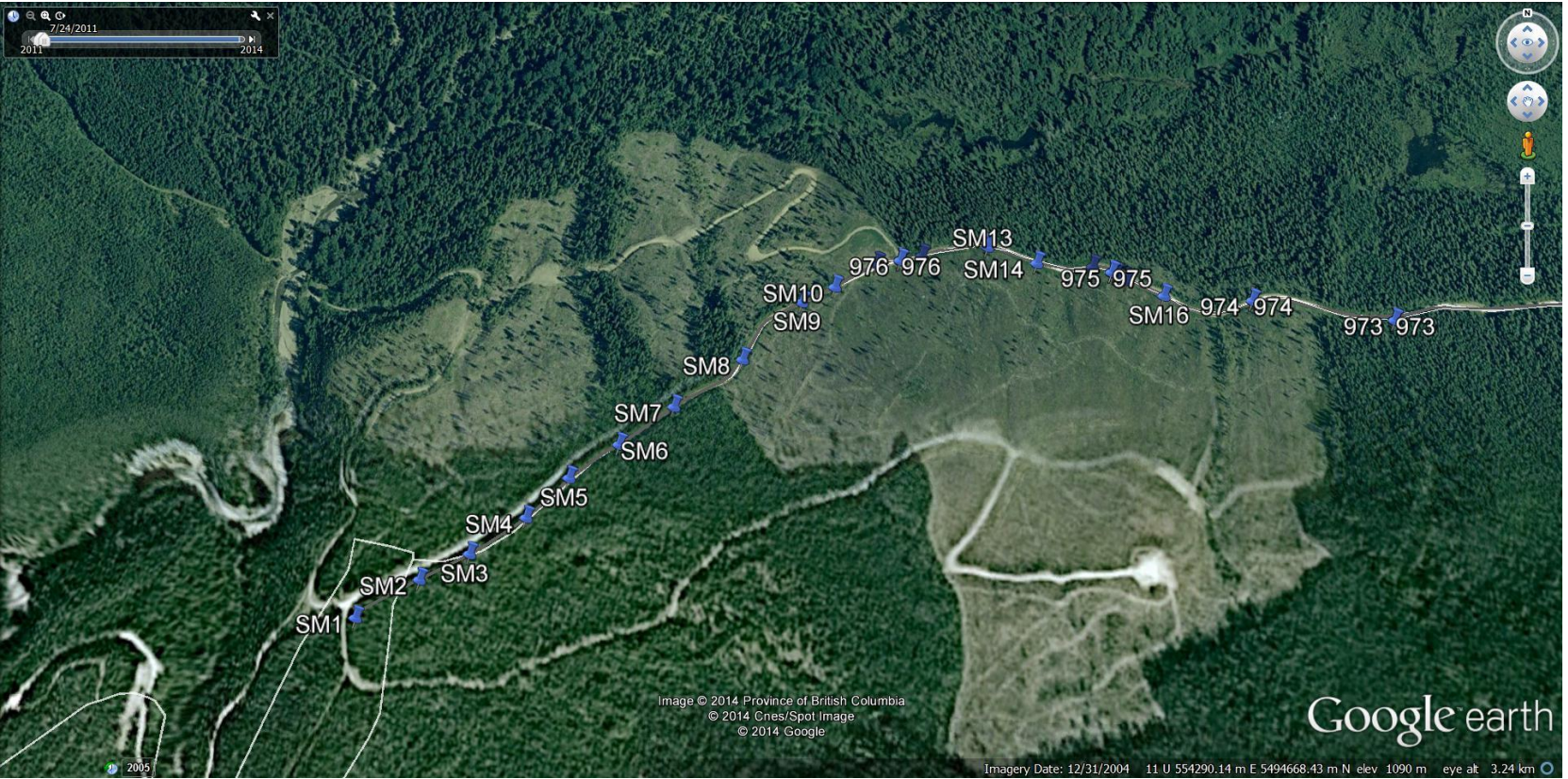


Figure 7a Google 2013 North Side, Road CP102





## **EXPLORATION 2014 PAULI VENT AREA**

Work in 2014 extended the initial work begun in 2013 south of St. Marys Lake near the Pauli Vent.

Rock types encountered along the lower road (see Figure 8) ranged from rusty weathering, micaceous brown quartzite and biotite schist. The Moyie Sills are represented by buff weathering, relatively fine grained gabbro. Quartzite of various types is the most abundant rock type.

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

The mainly quartzite in the eastern portion of the sampled area assayed up to 217ppm Zn and 147 lead.

Results in the western portion of the sample area returned lower Zn/Pb/Cu values, values up to 93ppm Zn and 35ppm Pb.

## CONCLUSIONS and RECOMMENDATIONS

The Gold Ledge Property comprises 9 mineral claims with a total of 1,673.72 ha. The property is situated west of Kimberley, and north and west of the St. Mary River. The property covers exposures of the Proterozoic lower and middle Aldridge Formations of the Purcell Supergroup. The target of exploration was a Sedex deposit such as Sullivan, stratigraphically located at the lower Aldridge – middle Aldridge contact (LMC).

The 2000 exploration program on the Gold Ledge Property consisted of two diamond drill holes (PP-00-1 and PP-00-2). Geological mapping that expanded and refined previous work and geological interpretations initiated in 1999 preceded the drilling.

Hole PP-00-1 intersected the Hiawatha and Fringe markers in the middle Aldridge (A2), then entered a fault zone that was interpreted to be the west-dipping normal Alki Fault. Lower Aldridge (A1) stratigraphy was encountered below the fault. While the LMC was not intersected, some favourable horizons were encountered. These horizons were only very weakly anomalous. Zinc, lead and silver mineralization within and near the Alki Fault zone is vein and fracture related, and is probably a late feature rather than representing remobilized Sedex mineralization at the LMC.

Hole PP-00-2 also intersected the Fringe marker and the LMC. The greater than expected distance from Fringe marker to the LMC in the hole was ascribed to motion on the previously undetected Murphy Creek Fault. Below the LMC, approximately 13m of favourable laminated siltstones and fine-grained wackes, correlative to the Sullivan Horizon, were encountered. A fault zone 30m below the LMC may have removed some thickness of Sullivan Horizon equivalent strata. The Sullivan Horizon equivalent sediments were weakly to moderately elevated in Pb and Zn (87ppm Pb, 226ppm Zn over 7.43m). This anomalous geochemistry may be indicative of strata very distal to that hosting Sedex style mineralization.

The Gold Ledge Project is an aggressive gold exploration located in the historical highly endowed mineral region of the Belt Purcell Basin, Purcell Mountains, south-eastern British Columbia. The Company is pleased to announce that its' Phase I exploration project has rediscovered several significant gold mineral showings and workings consisting of trenches, pits and short adits and has defined an important mineral-bearing major fault system.

The Gold Ledge claim group, which covers the project site, consists of 16 contiguous mineral claims encompassing 7,503.50 hectares. The lower and southern portion of the claim group is easily accessible from the town of Cranbrook, some half-hour drive along the St. Mary Lake Forest Service Road. Two of the old gold workings, the Mystery and Blue Peter, can be accessed by an old horse pack trail leading from the Alkai Creek logging roads. Some of the mineral prospects such as the Gold Ledge and Warren workings are located at higher elevations and are presently best accessible by helicopter, a 15 minute ferry time from Cranbrook. A nearby old logging road up the west branch of Matthew Creek comes within 3km of the Gold Ledge Zone.

Phase I exploration consisted of reconnaissance sampling of the old workings and preliminary geological and structural mapping. The workings and associated mineralization are spatially related to a major north-northwest trending, second order thrust fault and lower order cross-cutting (East-West), offset faults. The offset faults have developed drag folds along the thrust structure producing brittle deformation with mineralized quartz structures hosted in the Lower Aldridge fine grain quartzite and

siltstone. Drag folds may be important in hosting some of the mineralization as in the case of the Warren workings where a 16 meter wide, highly mineralized quartz structure was mapped and sampled occurring proximal to a drag fold. Here the sulphide assemblage consists, in order of abundance: arsenopyrite, galena, sphalerite and pyrite. The quartz structure is traceable for at least 150 meters before it is covered by talus material. At a lower elevation some 300 meters southwest of Warren workings, several old trenches were located cutting a shallow dipping, massive quartz structure hosting chalcopyrite, pyrite and arsenopyrite with some very fine bladed tourmaline crystals. This structure is hosted in a gabbroic sill (Moyie Intrusion) and distal to the thrust fault. Grab Samples assayed 6.00% Pb, 1.61% Zn and 37.2 g/tonne Ag.

The Gold Ledge workings are also structurally controlled and believed to be in a similar structural setting as the Warren workings and suggest drag folding. However, here, there is more evidence of brittle deformation and the quartz veins not as massive as the Warren instead display numerous sub-parallel narrow (1 to 0.5 meters) veins across several meters with associated anastomosing quartz veinlets. The brecciated host rock composed of quartzite and siltstone is partly replaced by sulphide mineralization adjacent to the quartz veins. The sulphide assemblage is similar to Warren mineralization.

Underground workings at the Gold Ledge consist of a 41m drift with a 14m wide crosscut. The crosscut exposes 2.4m of quartz filled breccia and 7.6m of fractured quartz. Gold values up to 34g/tonne are reported at the main Gold Ledge workings by previous selected sampling. Grab Samples from talus returned 4.97% Pb and 52.8 g/tonne silver.

Approximately 1.5km southwest of the Gold Ledge Workings is a series of short underground adits and shafts, which we refer to as the Lake Zone. Several character grab samples from the dump assayed 99.5g/tonne silver with 3.61 to 5.42% Pb and 6.56 to 9.61% Zinc. One sample ran 1.18% Copper.

The previously known underground workings known as the Blue Peter and Mystery returned grab samples assaying over 1% (up to 2.48% Cu) Copper with variable gold (from trace to 1.423 g/tonne) and silver values. However a previously undocumented relatively wide east-west trending pyritic zone (now called St. Mary Zone) was noted as being investigated in the old days by 3 adits up along the mountain side. Samples of fine muck from the upper adit assayed 3.913 g/tonne gold with 8.3 g/tonne Ag, 0.05% Cu with very low Arsenopyrite (49ppm). A grab sample from the lowest adit on the St. Mary Zone assayed 1.470 g/tonne gold.

Based on the preliminary surveys, the main thrust fault and subsidiary East-West zones important mineral-bearing structures as indicated by old workings that are found along 8 kilometer strike length. As well, some limited reconnaissance prospecting to the north along strike of the structure has found additional sulphide mineralization to suggest possible extension of quartz-mineral-bearing structures to the north.

Historical work shows that the property covers sub-cropping Sullivan and Footwall Quartzite horizons that are associated with a Sullivan-type feeder system. (Pauli Horst). However, the work to date does not cover most of the sub-cropping Sullivan Horizon, and does not test most of the base metal-rich Pauli Horst structure.



Rock types encountered along the lower road (see Figure 8) ranged from rusty weathering, micaceous brown quartzite and biotite schist. The Moyie Sills are represented by buff weathering, relatively fine grained gabbro. Quartzite of various types is the most abundant rock type.

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

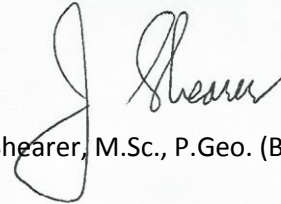
The mainly quartzite in the eastern portion of the sampled area assayed up to 217ppm Zn and 147 lead.

Results in the western portion of the sample area returned lower Zn/Pb/Cu values, values up to 93ppm Zn and 35ppm Pb.

To develop drill targets, the following is recommended:

- Complete a geophysical program that will cover all of the Sullivan Horizon and all of the Pauli Horst.
- All recently constructed Forestry roads that traverse the claims should be thoroughly and geologically mapped and prospected for base metal mineralization.

Respectfully submitted,



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

## REFERENCES

- Gal, LP and Weidner SO (1999):  
1999 Geological Evaluation of the Pyramid Peak Property. BCMEMPR Assessment Report
- Hoy, T (1993):  
Geology of the Purcell Supergroup in the Fernie West-Half Map Area, Southeastern British Columbia. B.C. Ministry of Energy, Mines and Petroleum Resources, Bulletin 84
- Hoy, T, Price, RA, Legun, A, Grant, B and Brown, DA (1995):  
Purcell Supergroup, southeastern British Columbia, compilation map, scale 1:250 000; B.C. Ministry of Energy, Mines and Petroleum Resources, Geoscience Map 1995-1
- Kung, R, Brown, DA, Lowe, C. and Rencz, A. (1996):  
Geology and Landsat Imagery of the St. Mary River Area- East, Southeastern British Columbia. Geological Survey of Canada Open File 3432.
- Leech, GB (1952):  
Preliminary Map. St. Mary Lake, British Columbia. Geological Survey of Canada Paper 52-15
- Leech, GB (1957):  
St. Mary Lake. Kootenay District, British Columbia. Geological Survey of Canada Map 15-1957
- Pighin, D. L. 2013:  
Geological Summary Report Economic Potential on the Pauli Vent and Surrounding Area, August 2013
- Reesor, JE (1996):  
Geology of Kootenay Lake, B.C. Geological Survey of Canada, Map 1864-A.
- Shearer, J. T. (2012):  
Geological and Geochemical Report on the Gold Ledge Property, for Electra Gold Ltd.  
February 1, 2012
- 2013:  
Airphoto Interpretation Report on the Gold Ledge Property, for Electra Gold Ltd.,  
January 4, 2013

**Appendix I**

**Statement of Qualifications**

**December 1, 2014**

**APPENDIX I**  
**STATEMENT OF QUALIFICATIONS**

I, J. T. (Jo) Shearer, M.Sc., P.Geo., of Unit 5 – 2330 Tyner St., Port Coquitlam, B.C. V3C 2Z1 do hereby certify that:

I am an independent consulting geologist and principal of Homegold Resources Ltd.

This Certificate applies to the Technical Report titled: PROSPECTING ASSESSMENT REPORT on the GOLDLEDGE PROJECT, FORT STEEL MINING DIVISION, Prepared for Electra Gold Ltd., North Vancouver, B.C., Prepared by myself, J. T. SHEARER, M.Sc., P.Geo., Consulting Geologist, #5-2330 Tyner St., Port Coquitlam, B.C., V3C 2Z1 dated August 15, 2013.

My academic qualifications are as follows: Bachelor of Science, (B.Sc.) in Honours Geology from the University of British Columbia, 1973, Associate of the Royal School of Mines (ARSM) from the Imperial College of Science and Technology in London, England in 1977 in Mineral Exploration, and Master of Science (M.Sc.) in Geology from the University of London, UK, 1977

I am a Member in good standing of the Association of Professional Engineers and Geoscientists in the Province of British Columbia (APEGBC) Canada, Member No.19279 and a Fellow of the Geological Association of Canada, (Fellow No. F439)

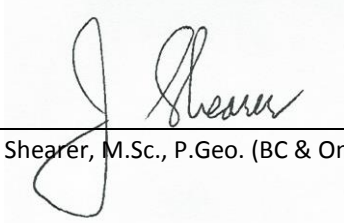
I have been professionally active in the mining industry continuously for over 40 years since initial graduation from university and have worked on several epithermal precious metal properties.,

I visited the Goldledge Property most recently on June 3-7, 2013 and November 22-24, 2014.

I am responsible for the preparation of all sections of the assessment report entitled "Prospecting and Geochemical Assessment Report on the Goldledge Project" dated December 1, 2014.

Signed and dated in Port Coquitlam, B.C.

December 1, 2014  
Date

  
\_\_\_\_\_  
J.T. (Jo) Shearer, M.Sc., P.Geo. (BC & Ontario)



**Appendix II**

**Statement of Costs**

**December 1, 2014**

Appendix II  
Statement of Costs

	Total without GST
Wages	
J. T. Shearer, M.Sc., P. Geo, Geologist, November 22, 23+24, 2014 3 days @ \$700/day	\$ 2,100.00
Ron Savelieff, B.Sc., Geologist, November 22, 23+24, 2014 3 days @ \$400/day	1,200.00
Transportation	
Truck - 3 days @ \$125/day	375.00
Fuel	360.00
Hotel, Cranbrook	680.00
Meals, Cranbrook	450.00
D. Delisle, 3 days @ \$325/day, November 22, 23+24, 2014	975.00
Data Compilation and Interpretation	700.00
Report Writing	1,400.00
Word Processing and Reproduction	350.00
<b>Total</b>	<b>\$ 8,590.00</b>

Event	#532513
Filed	December 1, 2014
Amount	\$ 6,200.00
PAC	\$ 2,271.75
Total paid	\$ 8,471.75

**Appendix III**

**SAMPLE DESCRIPTIONS and ASSAY RESULTS**

**December 1, 2014**

## Sample Descriptions

### Goldledge-Polly Vent

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-1	0.37	73	5.42	11.46	25.95	1438	2.04	18	34	7.79	5111	87
Description: biotite schist, strong												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-2	0.27	N/D	7.56	3.94	25.18	737	N/D	14	186	2.74	4.63	96
	<b>Pb</b>	<b>S</b>	<b>Th</b>									
	35	4334	51									
Description: micaceous, rusty weathering, brown quartzite phyllite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-3	0.13	29	5.06	1.98	28.83	456	N/D	13	118	0.7	2.45	46
	<b>Pb</b>	<b>Th</b>										
	28	41										
Description: dark grey, buff weathering quartzite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-4	N/D	N/D	3.32	1.20	31.96	298	N/D	N/D	38	1.44	3206	17
	<b>Pb</b>	<b>Th</b>										
	35	29										
Description: dark grey-brown quartzite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-5	0.15	N/D	4.1%	1.63	37.81	99	N/D	N/D	28	N/D	0.22	35
	<b>Pb</b>											
	19											
Description: reddish quartzite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-6	N/D	102	7.74	7.71	25.49	1216	4.58	8	23	12.38	1527	73
	<b>Ni?</b>											
	130											
Description: fine grained gabbro, buff weathering												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-7	0.14	N/D	6.81	1.31	31.53	506	N/D	6	173	1.37	3.66	23
	<b>Th</b>											
	27											
Description: diorite, foliated												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-8	0.10	N/D	10.69	4.65	25.11	586	N/D	10	26		6.09	48
	<b>Th</b>	<b>S</b>	<b>Pb</b>									
	45	234	17									
Description: rusty weathering, dark grey laminated, micaceous quartzite												



Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-9	0.36	46	5.59	2.83	27.56	200	N/D	8	119	0.42	3.01	49
	<b>Th</b>	<b>As</b>	<b>S</b>	<b>Pb</b>								
	34	10	5014	24								
Description: argillaceous quartzite veinlets												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-10	0.09	N/D	5.54	2.86	31.44	491	N/D	12	113	7124	2.81	39
	Th	S										
	22	5230										
Description: buff weathering, pyritic quartzite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-11	0.19	34	6.77	3.95	28.13	842	N/D	7	141	2.66	3.18	134
	<b>Th</b>	<b>S</b>	<b>Pb</b>									
	31	1.70%	7									
Description: rusty weathering, medium grey, micaceous quartzite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-12	0.12	N/D	8.58	3.18	27.81	374	N/D	N/D	182	N/D	4.38	111
	<b>Pb</b>	<b>S</b>										
	36	2.48										
Description: rusty weathering, dark grey quartzite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-13	0.39	N/D	3.29	8.24	15.66	214	N/D	6	138	0.13	2.49	33
	<b>S</b>	<b>Pb</b>										
	1.37	38										
Description: rusty, micaceous quartzite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-14	N/D	N/D	7.85	1.82	29.81	368	N/D	6	166	0.34	4.05	104
	<b>S</b>	<b>Pb</b>										
	0.89	33										
Description: rusty weathered, dark grey quartzite, foliated												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-15	0.13	N/D	7.96	3.11	29.09	564	N/D	N/D	187	0.59	0.59	217
	<b>S</b>	<b>Pb</b>	<b>Th</b>									
	1.47	53	31									
Description: very rusty massive quartzite, dark grey												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-16	0.14	N/D	7.02	2.76	27.76	552	N/D	N/D	191	1.43	3.58	124
	<b>Pb</b>	<b>S</b>										
	13	1.22										
Description: rusty weather, dark grey quartzite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-17	N/D	N/D	7.93	1.68	34.40	638	N/D	N/D	122	1.07	4.31	153
	<b>Th</b>	<b>S</b>	<b>Pb</b>									
	22	437	147									
Description: brown quartzite fragment												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-18	0.15	N/D	3.43	1.79	8.82	293	N/D	24	43	13.28	1.28	N/D
	<b>U</b>	<b>Th</b>	<b>S</b>									
	25	62	1.01%									
Description: extremely rusty, highly foliated quartzite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-19	0.17	N/D	8.60	3.72	28.51	498	N/D	N/D	97	0.51	3.33	89
	<b>S</b>											
	0.5%											
Description: dark grey quartzite												

Hole #	P	Cu	Al	Fe	Si	Mn	Mg	Mo	Rb	Ca	K	Zn
SM-20	0.13	N/D	5.12	2.46	22.08	1392	N/D	13	53	6.80	0.85	90
	<b>S</b>											
	0.40											
Description: very rusty weathering, foliated dark quartzite, lighter coloured elongated fragments												

St Mary's Lake GPS  
November 2014

161	N49 36.231 W116 14.467	1052 m
SM1	N49 35.934 W116 15.480	1071 m
SM10	N49 36.219 W116 14.846	1049 m
SM11	N49 36.239 W116 14.789	1049 m
SM12	N49 36.246 W116 14.729	1050 m
SM13	N49 36.254 W116 14.640	1055 m
SM14	N49 36.240 W116 14.574	1056 m
SM141	N49 36.237 W116 14.497	1054 m
SM15	N49 36.225 W116 14.451	1052 m
SM16	N49 36.211 W116 14.404	1050 m
SM17	N49 36.231 W116 14.467	1052 m
SM2	N49 35.966 W116 15.399	1078 m
SM3	N49 35.988 W116 15.332	1075 m
SM4	N49 36.019 W116 15.257	1075 m
SM5	N49 36.054 W116 15.199	1071 m
SM6	N49 36.082 W116 15.133	1059 m
SM7	N49 36.115 W116 15.060	1055 m
SM8	N49 36.156 W116 14.969	1052 m
SM9	N49 36.206 W116 14.890	1049 m