

ASSESSMENT REPORT, 2011 GEOCHEMICAL SAMPLING PROGRAM SER PROPERTY

MAYO MINING DIVISION, YUKON, CANADA

NTS MAP SHEET: 105O/08, 105O/09, 105P/05 AND, 105P/12, NAD83 ZONE 9
449000 E, 7035000 N (NAD83)

CLAIMS AND OWNER:

Claim Name	Number	Grant Number	Registered Owner
SER	113 - 116	YD73095 - YD73098	Golden Predator Canada Corp. - 100%
SER	129, 120	YD73111 - YD73112	Golden Predator Canada Corp. - 100%
SER	137 - 140	YD73119 - YD73122	Golden Predator Canada Corp. - 100%
SER	147 - 184	YD73129 - YD73166	Golden Predator Canada Corp. - 100%
Serax	1 - 319	YE47001 - YE47319	Golden Predator Canada Corp. - 100%
Serb	1 - 346	YD141001 - YD141346	Golden Predator Canada Corp. - 100%
Serc	1, 2	YD144401 - YD144402	Golden Predator Canada Corp. - 100%
Serc	3 - 298	YD84003 - YD84298	Golden Predator Canada Corp. - 100%

PERIOD OF WORK: AUGUST 11 TO 14, 2011

OPERATOR:

GOLDEN PREDATOR CANADA CORP.

201A-170 Titanium Way
Whitehorse
Yukon, Y1A 0G1

March 7th, 2012

Prepared by:

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1.0 INTRODUCTION

The SER property consists of 1009 contiguous mineral claims covering an area of 69,697 hectares, located in the Selwyn Basin in eastern central Yukon. Golden Predator Canada Corp. (Golden Predator) has a 100% undivided interest in the property and is targeting intrusion-related gold systems, and possible skarn and /or Carlin-style gold systems.

This report describes the work completed in the 2011 field season from August 11th to 14th which included stream sediment sampling and grab rock sampling.

2.0 PROPERTY LOCATION AND DESCRIPTION

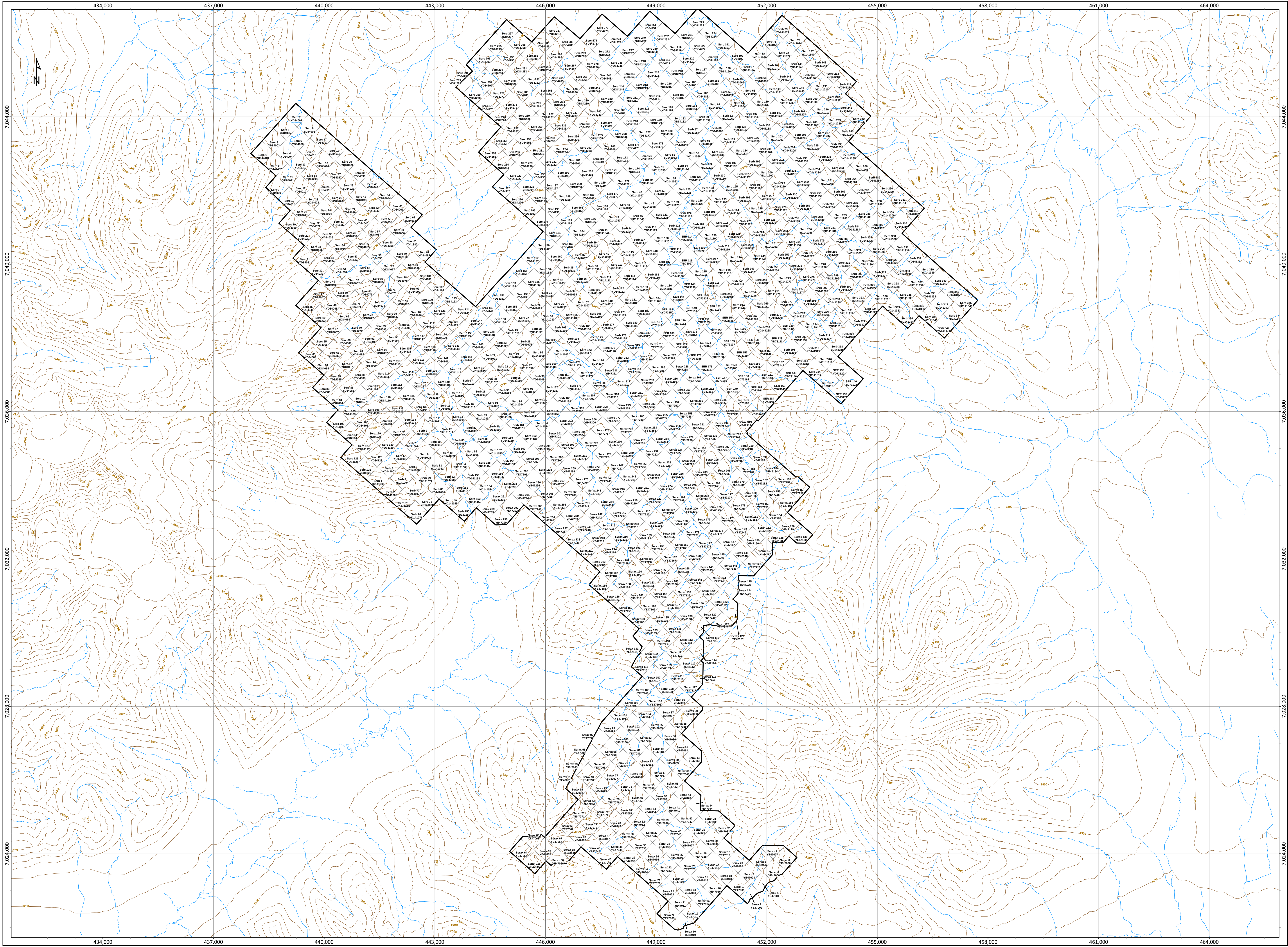


Figure 2-1. SER Property Location, Yukon Territory

The property is located on the Yukon Northwest Territory boundary in eastern central Yukon. It lies 215 km northeast of Faro, YT (Figure 2-1). It is accessed by one hour helicopter trip from Ross River. The North Canol road lies 7 km south of the property. The property is located in the Mayo Mining District, and consists of 1009 contiguous mineral claims covering an aggregate area of 69,697 hectares (Table 2-1, Figure 2-2).

Table 2-1. SER claim information

Claim Name	Claim Number	Grant Number	Registered Owner	Expiry Date
SER	113 - 116	YD73095 - YD73098	Golden Predator Canada Corp. – 100%	19/10/2012
SER	129, 120	YD73111 - YD73112	Golden Predator Canada Corp. - 100%	19/10/2012
SER	137 - 140	YD73119 - YD73122	Golden Predator Canada Corp. - 100%	19/10/2012
SER	147 - 184	YD73129 - YD73166	Golden Predator Canada Corp. - 100%	19/10/2012
Serax	1 - 319	YE47001 - YE47319	Golden Predator Canada Corp. - 100%	25/05/2013
Serb	1 - 346	YD141001 - YD141346	Golden Predator Canada Corp. - 100%	15/06/2013
Serc	1, 2	YD144401 - YD144402	Golden Predator Canada Corp. - 100%	15/06/2013
Serc	3 - 298	YD84003 - YD84298	Golden Predator Canada Corp. - 100%	15/06/2013



Legend

- Golden Predator Property Outline
- Quartz Claim Name and Grant ID
- Contour (100m)
- Elevation
- CodeTxt
- Watercourse



SER Project Claim Map



Scale:	1:45,000	Map ID:	--
Draw Date:	2012/03/05	Rev. Date:	--
Version:	1	Figure:	Figure 2-2
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro City, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_20120305_ClaimFig2-2		

3.0 INFRASTRUCTURE, CLIMATE AND PHYSIOGRAPHY

The centre of the property is located at 449000 E, 7035000 N (NAD83, zone 9). The nearest settlement accessible by road is Ross River, which is located 250 km to the southwest along the Canol gravel road. The road is maintained by the Yukon government in the summer months.

The property lies within the Taiga Cordillera ecoregion in the rugged Selwyn and southern Mackenzie mountains. The climate is continental modified by mountain setting. In the ecoregion, the mean annual temperature for major valley systems is approximately -4.5°C with a summer mean of 9.5°C and a winter mean of -19.5°C. Mean annual precipitation varies from 600 mm at lower elevations up to 750 mm at higher elevations (<http://ecozones.ca/english/region/171.html>).

The ecoregion is characterized by alpine tundra at upper elevations and by subalpine open woodland vegetation at lower elevations. Alpine vegetation occurs outside of talus slopes and includes lichens, dwarf willows, shrubs and grasses. Subalpine vegetation includes discontinuous stunted white spruce, and occasional alpine fir and lodgepole pine, with willow, dwarf birch, shrubs and grasses. (<http://ecozones.ca/english/region/171.html>).

The glaciated Selwyn Mountains are composed of broad, northwesterly-trending ranges and valleys. Alpine and valley glaciers occur, and there is extensive, discontinuous permafrost. Elevations range from 1,340 to 2,500 metres above mean sea level.

4.0 EXPLORATION HISTORY

Historical work on the SER claims is limited to the southeastern-most area where work was focussed on the mid-Cretaceous Bord stock. In 1980, Kelvin Energy Ltd. staked 30 Bord claims over a tungsten and gold showing (Minfile 105O 033). Mapping and rock sampling were completed and identified a sheelite occurrence, and arsenopyrite float in the adjacent metasediments. Kelvin Energy was unsuccessful at identifying a bedrock source for the arsenopyrite float due to thick talus slough and allowed the claims to lapse.

AGIP Canada Ltd. carried out mapping, geochemical sampling and hand trenching in 1983 on 24 Wall claims in the same vicinity as the Bord claims. Thin (0.2 – 0.3 m) auriferous arsenopyrite veins were traced over a strike distance of 325 m (McLaughlin, 1983). The claims lapsed in 1990; Kennecott Canada staked 47 Wall claims in 1996 in the same vicinity of the original Wall claims. In 1998, Kennecott completed a limited talus sampling, mapping and prospecting program on the southeast corner of the Wall claims. The program was focussed on the previously identified auriferous arsenopyrite veins and covered the intrusion and the hornfelsed metasediments (Hulstein and Andersen, 1999). A total of 30 rocks, 36 talus fines, one pan concentrate and two stream sediment samples were collected on the Tungsten, Grid and Peak zones. The Tungsten showing lies within the SER claim block, the Grid and Peak zones are approximately 200 – 300 m south of the SER boundary. The best results Kennecott obtained were 6.21 g/t Au and 5.8 g/t Ag from a brecciated arsenopyrite vein on the Grid zone,

consistently high arsenopyrite values were common in all areas ($> 10,000$ ppm) and tungsten (W) values of 960 ppm were obtained on the Tungsten claims.

5.0 GEOLOGY

5.1 Regional Geology

The property is located in the eastern edge of the Selwyn Basin. The Selwyn Basin is bound on the south by the Tintina Fault (and the Intermontane Superterrane) and bound on the north by the Dawson Thrust Fault and the North American Shelf (Figure 5-1). The Teslin Suture is the zone of deformation between the accreted terrane and the ancient shelf.

The Selwyn Basin stratigraphy consists of late Proterozoic to Palaeozoic marginal basinal and platformal clastic and pelitic sediments from ancient North America. Various aged volcanic piles are stratabound within the sediments. The basin was subjected to rifting during the Proterozoic and again in the late Devonian. During periods of rifting, contemporaneous magmatic rocks were emplaced as volcanics and as thick sill sequences.

By late Jurassic, the rocks of the Intermontane Belt of the Cordillera collided with the passive margin of the North America Shelf, causing compressive tectonics (Murphy, 1997). This resulted in crustal shortening, tight folding, and failure along hinges. Three regionally stacked thrust panels were formed: the Robert Service, Tombstone and Dawson thrust sheets (from oldest to youngest; Murphy, 1997).

The Selwyn Basin is intruded by northwest-trending post-accretionary plutonic mid-Cretaceous suites including the Tungsten, Mayo and Tombstone. The Tungsten suite (97-94 Ma) consists of granitoids with associated sheelite skarn deposits including Mactung and Cantung. The granitoid Mayo Suite occurs northwest of the Tungsten suite and is associated with the intrusion-related gold systems of Dublin Gulch and Clear Creek. Tombstone plutonic suite (92-90 Ma) lies further to the west and closely to the Tintina Fault (Lang et al., 2000). The Tombstone rocks are more alkalic with monzonites and syenites and are associated with U-Th-REE mineralization and intrusion-related gold deposits (Israel et al., 2011).

Mineralization associated with the mid-Cretaceous plutonic suite intrusions includes veins, skarns, stockworks and breccias within, proximal or distal to the intrusions. The most predominant form of mineralization however, is sheeted quartz veins in the intrusions. More often than not, more than one style of mineralization will exist proximal to these intrusions (Abbott et al., 1986).

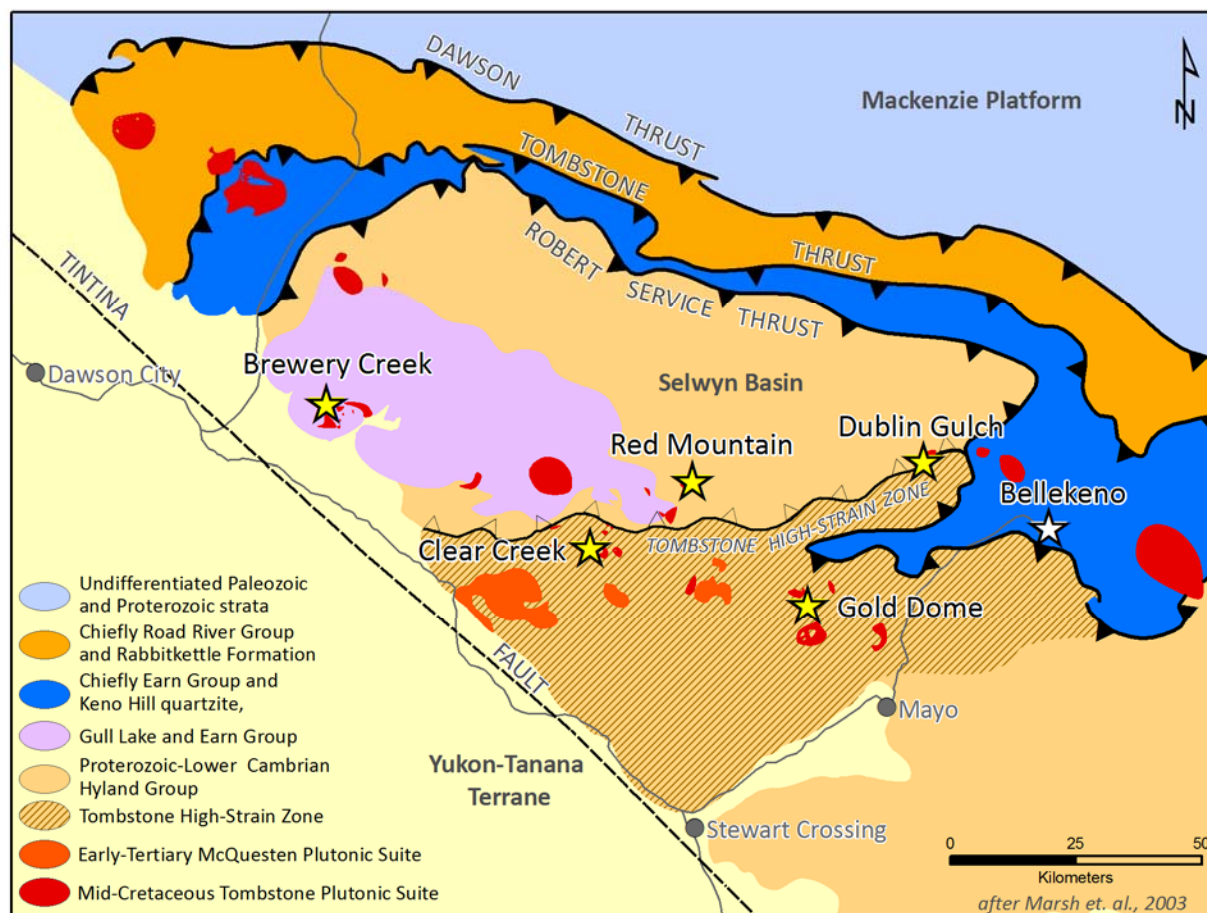


Figure 5-1. Regional Geology of the Selwyn Basin.

5.2 Property Geology

The property covers a large area (~70,000 hectares) spanning a lengthy depositional period in the Selwyn Basin and the descriptions thereafter are based by compilation work Gordey and Makepeace (2001). The southwestern portion of the property is underlain by the Early Cambrian Hyland Group comprised of interbedded maroon and apple-green slate; and locally a basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (PCH3). Local descriptions indicate the Hyland Group in this area is a “turbidite sequence of interbedded non-calcareous quartzite, phyllite and schist” (Hulstein and Andersen, 1999). Foliation is reported to be parallel to bedding and trends NW to NE. The southeastern portion of the property is the Upper Proterozoic to Lower Cambrian Vampire Group consisting of argillaceous siltstone and sandstone and minor orthoquartzites (uPCV).

The majority of the property is underlain by thrust Palaeozoic rocks comprised of Ordovician to Lower Devonian Road River Group limestone or silty limestone (ORD) and Upper Cambrian and Ordovician Rabbitkettle Lake consisting of silty limestone and calcareous phyllite (COR1/COR2).

The Northern portion of the property is underlain by Lower Cambrian Gull Lake mafic metavolcanic and volcanoclastic rocks, siltstone and argillite (ICG2). The Gull Lake rocks occur east of a Lower Cambrian limestone unit (ICS).

The Bord stock is a ~2.0 by 2.0 km mid-Cretaceous Tungsten Suite monzonitic intrusion straddling the southwestern edge of the SER claims (mKqS). The intrusion has caused extensive hornfelsing in the Hyland group metasediments (shale and siltstones) and is associated with the Peak, Grid and Tungsten mineralized zones (the Kelvin occurrence, Minfile 105O 033). The stock is described as fine to coarse grained, equigranular biotite quartz monzonite with occasional megacrystic feldspars. Weak alteration includes chloritization and clay alteration.

A second 2.5 km x 2.5 km mid-Cretaceous granodioritic intrusion occurs immediately east of the property. The intrusion has caused extensive hornfelsing and development of and extensive calc-silicate skarn, and lesser magnetite skarn at the Mehitabel occurrence (Minfile 105P 001). Lowland areas have a thick Quaternary cover.

Little information is known about the BBOB occurrence (Minfile 105O 047), situated on the SER claim block. AGIP Canada Limited completed mapping, geochemical sampling and hand trenching in 1992 but no mineralization was reported.

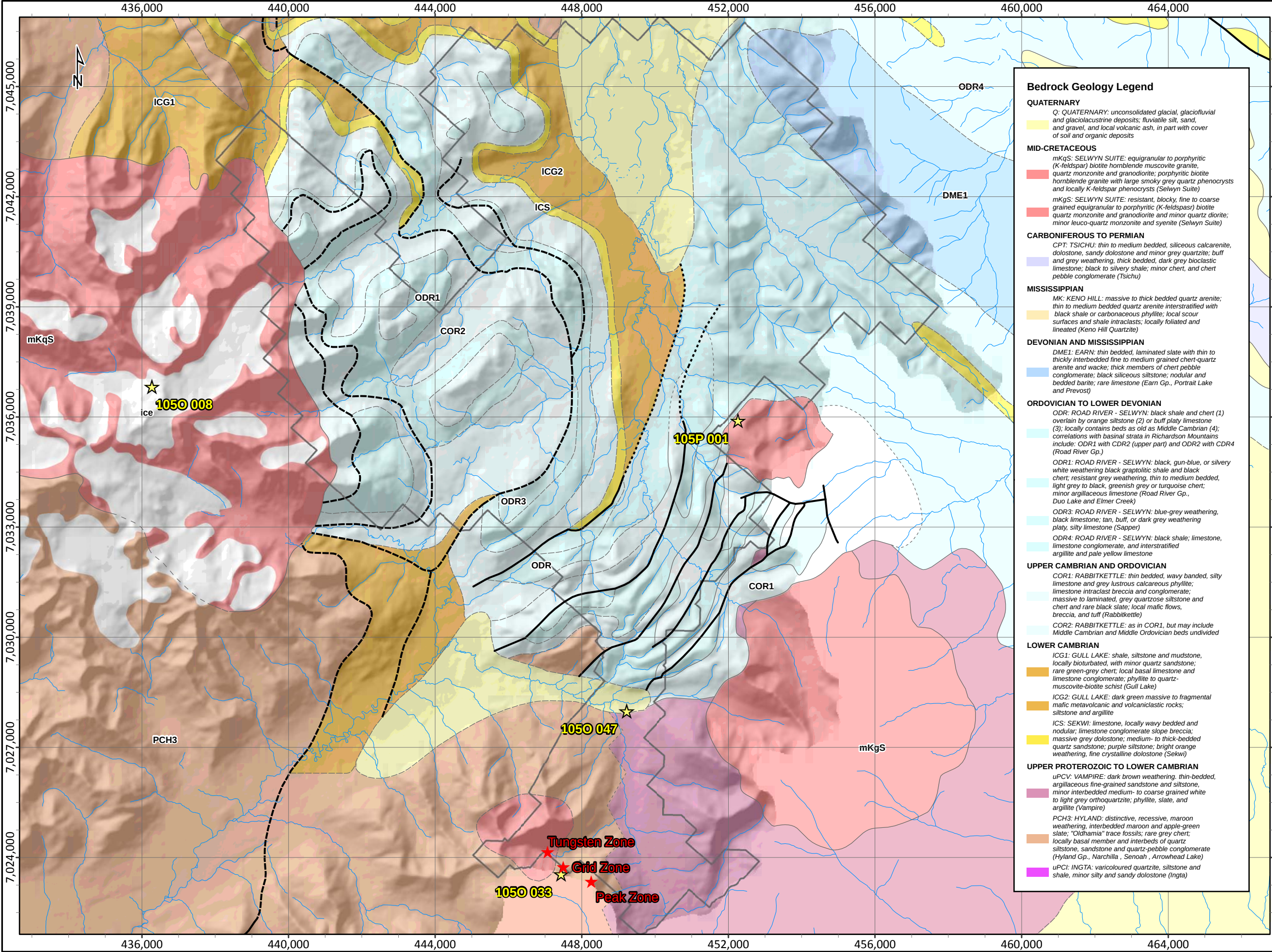
Most of the property has seen no historic exploration except for the southwestern corner near the Bord stock.

5.3 Mineralization

The Tintina Gold Belt is a metallogenic region extending from the Yukon into Alaska which hosts several intrusion-related gold deposits including Dublin Gulch, Brewery Creek and Fort Knox. Gold deposits that are spatially and temporally associated with the mid-Cretaceous plutonic suite intrusions, and in the Yukon, form the Tombstone Gold Belt (Goldfarb et al., 2000).

The only known mineralization on the SER claims is at the Tungsten zone where north trending vertical sheeted quartz-tourmaline-sheelite veinlets, 0.1 - 0.5 cm wide and spaced 5 – 10 cm apart, cut the Bord intrusion (Figure 5-2). Work completed by AGIP Canada in 1983 indicated the Tungsten zone is exposed over an area of 60 x 120 m.

Mineralization just off-claims and south-southeast of the Tungsten zone includes the Peak and Grid zones. The Peak zone (which includes the Kelvin prospect, Minfile 105O 033) is 60 m wide and located 800 m SE of the Bord stock. It consists of epithermal sheeted quartz veins with trace disseminated and blebby pyrite-pyrrhotite-arsenopyrite in feldspar porphyry sills/dykes. The Grid zone is located about 500 m SE of the Tungsten zone and consists of thin (~10 cm) brecciated quartz-arsenopyrite-scordorite veins trending parallel to the Bord intrusive margin but located in hornfelsed metasediments. The mineralized zones are 1-2 m wide and wallrock Au values are <150 ppb.



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite; quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narichilla , Senoah , Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

minfile occurrence



SER Project

Regional Geology

SER Area

Kilometers			
Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	5-2
Author:	E. O'Brien	Office:	Vancouver
Location: 215 km NE of Faro, Yukon Territory			
Projection: NAD 1983 UTM Zone 9N			
Filename: SER_2011_BedrockFig5-2			

6.0 EXPLORATION

6.1 Exploration Program

The 2011 exploration program was carried out between August 11th and 14th. Golden Predator collected 122 silt samples from active stream beds and 22 rock samples. Crews of between 9 to 12 samplers, plus a cook and helicopter pilot were based in the Jeff Creek camp constructed by Golden Predator on the North Canol Road. All the work was helicopter assisted using a NOTAR supplied by Fireweed Helicopters of Whitehorse, YT, with daily flight times averaging about 4.6 hours/day for the program.

6.2 Sampling Methodology and Protocols

Stream Geochemical Program

Stream sediment samples were collected at intervals of approximately 750 m along first, second and third order streams, and immediately upstream of confluences. Samples were also collected in the vicinity of historical RGS stream anomalies, to test repeatability.

Each sample was collected from several points along the active stream bed to produce a representative composite sample. The uppermost sediment was discarded to avoid spurious high content of Fe and Mn oxide coating. The active silt and fine to medium sand that has been recently transported by the stream was the target sediment. This type of sediment was generally located: 1) in the lee of large boulders or logs; 2) in low energy pools at the tail-end of bars; and 3) infilling voids below the surface of cobble-gravel bars.

Samples were sieved in the field to a fraction of less than one-eighth inch ($<1/8''$ or 3.36 mm) and placed in labelled, double layered plastic sample bags. Sample sites were flagged and photographed. The sample weights varied between 4-12 kg. Large sample sizes were required to obtain sufficient fine material for the selected assay techniques.

If the drainage contained seasonal stream sediment deposition, but was currently dry, a sediment sample was collected by dry sieving the material. Occasionally the south-facing slopes had underground drainage that sporadically comes to surface, in which case sample spacing sometimes varied.

Sample data was recorded on data cards and included the following: geographic location, sample color, angularity of the clasts, sediment composition (percentage of gravel, sand, silt, clay and organics), slope direction, slope angle, stream flow, vegetation type and comments.

Samples were transported by air from Jeff Creek camp to Whitehorse by Alkan Air. Samples were delivered by in-house personnel or insured professional expeditors to ALS Chemex's ISO 9001 certified preparation facility in Whitehorse. Samples were dried and screened to 180 microns (80 mesh).

The pulps were analyzed at ALS Chemex's ISO 9001 certified laboratory in North Vancouver using the ultra-trace ME-MS41 package. A 0.5 g sample is digested by aqua regia techniques and 51 elements are analyzed through a combination of ICP-AES and ICP-MS.

The Au-ST44 method was used to analyze gold using a 50 g sample of <80 micron material. This method provides the lowest possible detection limit for gold of 0.0001 – 0.1 ppm, using aqua regia digestion with analysis by ICP-MS. The larger sample size for the gold analysis is used in an effort to reduce potential nugget effects. Samples exceeding the upper limit of Au detection (0.1 ppm) were re-analyzed using Au-OG44, an ore grade assay technique. A 50 g sample of 180 microns sediment is digested in an aqua regia solution and finished with ICP-MS methods to provide an Au detection range between 0.01 – 100 ppm.

ALS completes quality assurance/ quality control (QA/QC) data verification of their assays through internally inserted duplicates, standards and blanks. In addition, Golden Predator's QA/QC program included the insertion of field duplicates, blanks and standard reference material obtained from CDN Resource Laboratories of Langley, BC. Assay certificates are compiled in Appendix 3 and the detailed methodology and detection limits are in Appendix 4. Appendix 5 presents the sample locations geochemical plots for select elements for the stream sediment samples collected by Golden Predator in 2011.

Stream sediment samples were ranked by percentile to determine statistical anomalies for the property. Blue circles plot samples ranking in the lower 50th percentile, green circles are samples in the 50th – 75th percentile, orange circles are 75th - 90th and (labelled) and red circles are the upper 10th percentile (labelled).

Rock Samples

A total of 22 rock samples were collected in conjunction with the stream sediment sampling program. Samples were either grabs (float) or outcrop. The geographic locations were recorded and a detailed description of the rock. Appendix 6 presents the sample locations and geochemical plots for select elements for the rocks samples.

There were insufficient rock samples collected to form a statistical set. Samples were ranked in either two or three categories based on natural breaks.

6.3 Results

Stream Sediments

Results from the stream sampling program outline several multi-element geochemical anomalies that warrant follow up work. The geochemical plot for gold in stream sediments identify several sporadic highs (up to 510 ppb) generally occurring in basins draining the mid-Cretaceous quartz monzonites, granodiorites and granitic to plutons. Other elements that are coincidentally anomalous in those basins are: arsenic, bismuth, lead, $\pm$ antimony $\pm$ tungsten. The known Minfile occurrences will account for some of these anomalies, but others have no known source.

Two top 10 percentile gold in streams values (88.5 and 10.3 ppb Au) occur in the Rabbittkettle limestone and Road River – Selwyn blacks shales and chert from two different drainages. Those samples also had mild to moderate tungsten values.

A second isolated gold anomaly of 40.8 ppb occurs in the basin draining similar rock formations. Mercury is coincidentally high and there are weak molybdenum, antimony, tungsten and zinc anomalies as well. A sample collected about a kilometre further downstream has only weak anomalies.

Anomalous silver (up to 1.05 ppm), zinc (up to 4910 ppm) and mercury concentrations (up to 0.37 ppm) all occur in basins draining Road River – Selwyn shales, which may have higher background values for these elements. All arsenic anomalies (up to 732 ppm) and most anomalous lead samples (up to 272 ppm) appear to be associated with the mid-Cretaceous stocks. Most anomalous bismuth values (up to 63.4 ppm) are also strongly associated with the stocks and the drainages remain anomalous some distance from the mapped contacts (up to 7 km). Elevated copper values (up to 341 ppm) coincide with molybdenum highs (up to 72.2 ppm) and occur in clusters throughout the property. Anomalous antimony values (up to 81.3 ppm) are strongly associated with a mid-Cretaceous stock hosting the off-property Mehitabel occurrence (Minfile 105P 001) and a few clusters of anomalous values occur sporadically in the draining Road River – Selwyn sediments (shales). Tellurium values (up to 2.08 ppm) occur mainly on the northwestern side of the property down-gradient of large mid-Cretaceous stock, although isolated anomalies occur sporadically as well. Most of the anomalous tungsten (up to 41.8 ppm) also coincides with the Tellurium highs on the northwestern portion of the property, and down-gradient of the known Tungsten zone in the southwest.

Rocks

Grab sample J971522 described as an angular quartz float collected on the northwestern portion of the property below a glacier and occurring in amongst large boulders of granite and sediments, had the highest gold assay of 27.5 grams per tonne (g/t) Au. The coarse-grained grey quartz float contained fine-grained arsenopyrite (1%) and pyrite (0.5%). This sample was also highly anomalous in arsenic, bismuth, silver, lead and zinc. None of the other 21 rock samples collected had elevated gold concentrations.

Sample J971523, a fine-grained sandstone outcrop occurring on ridge on the northern edge of the property was the highest copper sample at 0.242%. The sandstone was sericite altered, with malachite staining; interbedded with black siltstone with malachite staining.

Sample J971510, a monzonitic float collected near the eastern edge of the property was anomalous in arsenic at 1400 ppm. The float was describes as medium grained monzonite with moderate limonitic alteration and coarse-grained arsenopyrite clusters (1%) of up to 2 cm in diameter with minor sericite alteration.

7.0 CONCLUSIONS AND RECOMMENDATIONS

SER is a large property consisting of 1009 mineral claims covering an area of ~70,000 hectares in the Selwyn Basin in eastern central Yukon. The property is in the grassroots stages of exploration and has perspective intrusion-related gold+ tungsten systems, and possible skarn and/or Carlin-style gold systems.

The 2011 field program included the collection of 122 stream samples and 22 rock samples. The stream sediment program was effective at identifying known showings (i.e., the Tungsten zone and the off-claims Mehitabel occurrence) and highlighting additional areas requiring follow up (i.e. multi-element geochemical anomalies in drainages with no known source). A quartz float sample collected on the western portion of the property assayed 27.5 g/t Au.

Systematic follow up of the stream geochemical anomalies and of the anomalous quartz float should be completed. Additional stream samples up-gradient of the anomalies can be collected early in the field season to further delineate the sources. Ground truthing, including prospecting and ridge and spur soil sampling should be completed in the most perspective areas.

8.0 2011 EXPENDITURES

Expenditures for the 2011 exploration program were \$109,364.00 as summarized in Table 8-1.

Table 8-1. 2011 Expenditures

Expenditure	Units	Unit Cost	Per	Cost
Wages				
Golden Predator	4	\$ 4,100.00	day	\$ 16,400.00
Report Writing	3	\$ 500.00	day	\$ 1,500.00
Transportation				
Helicopter	40	\$ 1,100.00	hour	\$ 44,000.00
Fuel	40	\$ 200.00	hour	\$ 8,000.00
Consumables				
Camp, fixed wing, food, supplies	4	\$ 8,216.00	day	\$ 32,864.00
Sample Assays				
Stream Sediment Samples	120	\$ 55.00	sample	\$ 6,600.00
Total Expenditures				\$109,364.00

9.0 STATEMENT OF AUTHORSHIP

This Report titled "Assessment Report, 2011 Geochemical Sampling Program, SER Project, Mayo Mining Division, Yukon Territory, Canada", and dated March 7th, 2012 was prepared and signed by the following author:



Erin O'Brien, M.Sc., P.Geo.
Dated: March 7th, 2012
Vancouver, British Columbia



10.0 REFERENCES

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Appendix 1

Statement of Qualifications

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CERTIFICATE OF AUTHOR

I, Erin Kathleen O'Brien of 11th Floor, 888 Dunsmuir, Vancouver, British Columbia, certify that:

1. I am a graduate of McGill University of Quebec with a B.Sc. Joint Major in Geology and Environmental Studies, in 1994 and a M.Sc. in Geology from the University of New Brunswick in 1996;
2. I have practiced my profession as a mineral exploration or environmental geologist with Caracle Creek International Consultants Inc., Golder Associates Ltd., Morrow Environmental Consultants Inc. (SNC Lavalin Environment) and as a geological consultant for 15 years, where I have been involved with the geological exploration of precious and base metal properties and deposits in a variety of capacities;
3. I have been operating a business as a geological consultant under my own name since 1996, and consulted for Golden Predator Canada Corp. between September, 2009 and March 2010. I became a full time employee of Golden Predator Canada Corp. in April, 2010.
4. I am a Professional Geoscientist registered with the Association of Professional Geoscientists and Engineers of British Columbia and have been since 2001;
5. I am author of this Report "Assessment Report, 2011 Geochemical Sampling Program SER, Mayo Mining Division, Yukon, Canada; dated March 7th, 2012;" and
6. I have reviewed the geological data and am not aware of any material facts or change in facts at the time this certification is dated.


Erin Kathleen O'Brien, M.Sc., P.Geo.

Vancouver, British Columbia
Dated this 7th Day of March, 2012



Appendix 2

Analytical Summary

SER Sample Descriptions

Sample No.	Sample Date 2011-M-D	Datum	Zone	Easting	Northing	Elevation (m)	Angularity	Color	Gravel	Sand	Silt	Slope Dir	Slope Angl	Stream Flow	Comments
K919872	08_13	NAD83	9	453631	7036827	1576	SA	GYD	60	20	20	W	2	4	Metaseds, mostly shale; bladed calcite boulders in creek.
K919873	08_13	NAD83	9	453475	7036761	1573	SA	BR	70	20	10	NW	2	3	40% metaseds, 60% igneous.
K919874	08_13	NAD83	9	451599	7036979	1477	SA	BR	30	30	40	W	2	4	Intrusives, siltstone, calcite crystals.
K919875	08_13	NAD83	9	451478	7036916	1487	SA	BR	50	30	20	N	3	3	Metaseds and volcanics.
K919876	08_13	NAD83	9	450721	7039002	1423	A	GY	70	20	10	W	3	3	Siltstone with 5% volcanics. Quartz veins with sulphides.
K919877	08_13	NAD83	9	450573	7039081	1399	A	RBR	60	20	20	N	2	3	Metaseds.
K919878	08_13	NAD83	9	450797	7038330	1425	R	BR	20	20	20	W	2	3	Abundant fines, metaseds.
K919879	08_13	NAD83	9	450278	7038494	1392	SR	BR	30	10	10	NW	2	3	Side creek was swamp, so sampled from the main creek.
K919881	08_13	NAD83	9	449739	7039000	1376	SA	GYD	10	20	20	N	1	4	Metaseds, abundant fines.
K919841	08_13	NAD83	9	445236	7034337	1483	SR	BRD	80	20	0	NW	4	5	metaseds and sed. Rounded fsp porphyritic qtz monzonite boulders.
K919842	08_13	NAD83	9	447248	7034881	1548	SR	BRD	70	30	0	NW	3	3	sed. Rounded boulders qtz monz.
K919846	08_13	NAD83	9	447035	7036618	1410	SR	BRD	80	20	0	E	3	4	metaseds
K919847	08_13	NAD83	9	447569	7036793	1407	SA	BRD	60	40	0	NE	2	4	metaseds,all fines
K919848	08_13	NAD83	9	447694	7036868	1404	SA	BRD	60	40	0	E	2	4	metaseds, lots of fines
K919849	08_13	NAD83	9	448201	7036679	1403	SA	BRD	60	40	0	NW	3	4	metaseds, lots of fines. Weak limonite.
K919850	08_13	NAD83	9	448616	7037845	1388	SR	BRD	40	60	0	NW	1	4	metaseds, lots of fines
K919931	08_13	NAD83	9	451573	7034401	1556	SA	BRD	60	20	20	N	2	3	layered sed rocks,sandstone
K919932	08_13	NAD83	9	451552	7034388	1569	SA	BRD	70	20	10	N	2	3	layered sed rocks,sandstone
K919933	08_13	NAD83	9	451506	7034568	1556	SR	GYD	50	20	10	W	1	3	
K919934	08_13	NAD83	9	451448	7034779	1551	SR	TAD	60	30	10	W	3	3	rock sample taken JP11-15
K919935	08_13	NAD83	9	451080	7035033	1518	SA	GYD	70	30	0	E	2	3	
K919936	08_13	NAD83	9	450451	7032448	1507	SR	BK	60	30	10	E	2	2	sed rocks, big pyrite nuget
K919937	08_13	NAD83	9	449828	7032093	1571	SA	GYD	70	20	10	N	3	3	
K919938	08_13	NAD83	9	449603	7032362	1556	SA	BK	70	20	10	N	3	3	
K919939	08_13	NAD83	9	449812	7033435	1470	SR	BRD	20	60	20	N	1	3	
K919940	08_13	NAD83	9	449565	7034251	1447	SR	GY	50	30	20	N	1	2	
K919941	08_13	NAD83	9	449705	7035200	1431	SR	GYD	60	20	20	NE	1	2	
K919942	08_13	NAD83	9	449402	7036007	1421	SR	BK	60	20	20	N	2	3	
K735401	08_14	NAD83	9	448243	7031989	1573	SA	BR	80	20	20	NW	2	3	
K919943	08_14	NAD83	9	449308	7024813	1528	SA	TA	80	10	0	W	2	3	sed rocks
K919944	08_14	NAD83	9	449200	7025204	1502	SR	TA	60	20	20	N	2	3	sed rocks
K919946	08_14	NAD83	9	448239	7024491	1581	SR	TA	0	70	30	E	1	3	sed rocks
K919947	08_14	NAD83	9	448350	7026678	1586	SR	BR	20	60	20	E	2	3	sed rocks

SER Sample Descriptions

Sample No.	Sample Date 2011-M-D	Datum	Zone	Easting	Northing	Elevation (m)	Angularity	Color	Gravel	Sand	Silt	Slope Dir	Slope Angl	Stream Flow	Comments
K919948	08_14	NAD83	9	449104	7026689	1455	SA	BR	60	20	20	W	2	3	sed rocks
K919949	08_14	NAD83	9	449127	7026712	1453	SA	GY	70	20	10	E	2	3	sed rocks
K919950	08_14	NAD83	9	448655	7028093	1383	SR	TAD	30	50	20	E	1	2	sed rocks
K919952	08_14	NAD83	9	449083	7029861	1541	SR	BRD	80	20	0	E	2	5	metaseds
K919953	08_14	NAD83	9	449212	7029840	1549	SA	BRD	80	20	0	SW	2	5	metaseds
K919954	08_14	NAD83	9	449175	7029492	1534	SA	BRD	70	30	0	SW	3	4	metaseds
K919955	08_14	NAD83	9	449077	7029267	1516	SA	BRD	80	20	0	SW	3	4	metaseds
K919956	08_14	NAD83	9	447750	7032979	1504	SR	BRD	40	50	10	SW	1	4	metaseds
K919957	08_14	NAD83	9	447676	7033019	1501	SR	BRD	80	20	0	SE	1	4	metaseds
K919901	08_11	NAD83	9	453782	7038460	1636	SA	GYD	80	10	10	W	2	3	No flow in the side stream, sample from main creek; metaseds
K919902	08_11	NAD83	9	453425	7038445	1574	SR	GYD	70	20	10	NW	2	4	Shale, siltstone, minor quartz and granodiorite
K919903	08_11	NAD83	9	453177	7038583	1555	SR	GYD	80	10	10	SW	2	4	metaseds, minor intrusives, 1% quartz vein fragments
K919904	08_11	NAD83	9	453183	7038543	1555	SR	GYD	70	20	10	N	2	3	metaseds, minor orange oxide stain, trace quartz vein
K919905	08_11	NAD83	9	452842	7038911	1522	SR	GYD	80	10	10	N	2	5	metaseds with abundant large intrusive boulders
K919906	08_11	NAD83	9	452894	7039555	1503	SR	GYD	80	10	10	W	3	4	mainly metaseds
K919907	08_11	NAD83	9	452838	7039539	1498	SR	GYD	20	70	10	N	2	4	abundant fines, metaseds
K919908	08_11	NAD83	9	452699	7039927	1487	SR	GYD	10	60	30	N	2	4	abundant fines, metaseds, trace quartz vein fragments
K919909	08_11	NAD83	9	452672	7040032	1489	SR	GYD	60	30	10	E	3	4	siltstone with minor quartz, volcanics and intrusives
K919910	08_11	NAD83	9	450394	7042220	1381	SR	GY	70	20	10	W	2	4	mixed lithologies, metaseds, intrusives
K919911	08_11	NAD83	9	450296	7042297	1363	R	GY	70	20	10	N	2	5	mixed lithologies, metaseds, intrusives, fast, main drainage
K919817	08_11	NAD83	9	456410	7039349	1498	SR	GYD	50	50	0	W	2	5	siltstone, mudstone dominantly. Minor limonite stringers with selvage. Minor muscovite.
K919818	08_11	NAD83	9	456421	7039378	1510	SR	GYD	60	40	0	SW	3	5	siltstone, mudstone, minor muscovite. Moderate qtz veins and brx float.
K919819	08_11	NAD83	9	456068	7039645	1508	SR	GYD	70	30	0	SW	2	4	chert pebble conglomerate, siltstone and mudstone. Occasional qtz vn brx.
K919820	08_11	NAD83	9	455558	7039827	1498	SR	GYD	70	30	0	NW	2	5	sed. Qtz veins-massive, opaque, white.
K919821	08_11	NAD83	9	455562	7039916	1500	SR	GYD	70	30	0	S	2	4	sed

SER Sample Descriptions

Sample No.	Sample Date 2011-M-D	Datum	Zone	Easting	Northing	Elevation (m)	Angularity	Color	Gravel	Sand	Silt	Slope Dir	Slope Angl	Stream Flow	Comments
K919822	08_11	NAD83	9	454781	7040440	1485	SR	GYD	80	20	0	SE	2	3	hard to get. Grassy with minor seds on grass and little stream flow. Seds
K919823	08_11	NAD83	9	453956	7039839	1519	SA	GYD	70	30	0	NW	3	3	seds
K919824	08_11	NAD83	9	453893	7039845	1516	SA	GYD	80	20	0	NE	3	3	seds. White-blue slime on rocks. Ca?
K919825	08_11	NAD83	9	453351	7043463	1506	SA	GYD	80	20	0	SE	4	5	black shale, chert pebble cng, mudstones and argillite.
K919826	08_11	NAD83	9	453383	7043415	1502	SR	GYD	70	30	0	SW	3	5	chert pebble cng, milky blue coating on rocks in stream. Minor siltstone and mudstone, some shale. Outcrop beside with small qtz veins with possible sphalerite.
K919851	08_11	NAD83	9	454985	7039451	1514	SA	BK	30	50	20	N	2	3	medised
K919852	08_11	NAD83	9	454656	7039726	1498	SR	BK	50	30	20	N	2	3	sed rocks
K919853	08_11	NAD83	9	454111	7040591	1473	SR	BK	50	30	20	NE	2	3	sed rocks
K919854	08_11	NAD83	9	454205	7040609	1469	SR	BK	50	30	20	NE	2	3	sed rocks
K919855	08_11	NAD83	9	453909	7040909	1472	SR	BK	50	30	20	N	2	3	sed rocks
K919856	08_11	NAD83	9	453189	7040669	1477	SR	BRD	50	30	20	NW	2	3	sed rocks
K919857	08_11	NAD83	9	453067	7041172	1458	SR	GYD	50	30	20	N	2	3	sed rocks
K919858	08_11	NAD83	9	453026	7041204	1458	SR	GYD	50	30	20	N	2	3	sed rocks
K919859	08_11	NAD83	9	452883	7041797	1436	SR	GYD	60	30	10	NE	2	3	sed rocks
K919860	08_11	NAD83	9	452876	7042527	1438	SR	GYD	70	20	10	N	2	3	sed rocks
K919861	08_12	NAD83	9	452736	7044013	1526	SA	BRD	50	30	20	SW	2	4	chert peb.conglo.and metaseds
K919862	08_12	NAD83	9	452698	7044068	1528	SA	BK	70	20	10	SW	3	4	chert peb.conglo.and metaseds
K919863	08_12	NAD83	9	452361	7043093	1430	SR	BK	40	30	30	S	2	4	chert and conglomerate,metaseds
K919864	08_12	NAD83	9	452164	7043341	1433	SA	BRD	60	30	10	SW	2	3	metaseds
K919866	08_12	NAD83	9	452305	7046567	1481	SA	BK	50	20	30	N	2	4	metaseds,2% granite,5% volcanic
K919867	08_12	NAD83	9	452279	7046102	1507	A	BK	50	30	20	N	3	3	metaseds with calcite veining
K919868	08_12	NAD83	9	452239	7046105	1504	A	BK	50	30	20	N	3	3	metaseds with calcite veining
K919843	08_13	NAD83	9	444938	7035782	1444	SR	BRD	50	40	10	NE	2	3	metaseds
K919844	08_13	NAD83	9	445005	7035842	1445	SR	BRD	50	40	10	E	2	4	metaseds
K919951	08_13	NAD83	9	447801	7037870	1424	SR	BRD	70	30	0	E	4	4	metaseds, weak limonite.
K919882	08_14	NAD83	9	443253	7035604	1418	A	RBR	50	30	20	SE	1	4	heavily iron stained material still dominated by metaseds
K919883	08_14	NAD83	9	443281	7035506	1410	SR	BR	50	30	20	E	3	4	metaseds,moderate Fe staining
K919884	08_14	NAD83	9	443683	7035043	1380	A	GY	60	20	20	SW	3	3	metaseds
K919885	08_14	NAD83	9	443887	7033495	1290	A	RBR	40	30	30	SE	1	4	Fe stained metaseds
K919886	08_14	NAD83	9	443957	7033432	1282	A	GY	50	20	30	SW	2	3	qtz veins-1cm in metaseds

SER Sample Descriptions

Sample No.	Sample Date 2011-M-D	Datum	Zone	Easting	Northing	Elevation (m)	Angularity	Color	Gravel	Sand	Silt	Slope Dir	Slope Angl	Stream Flow	Comments
K919887	08_14	NAD83	9	443746	7034031	1310	A	RBR	60	20	20	SE	1	5	Fe stained metaseds
K919912	08_12	NAD83	9	444586	7046520	1448	SA	BRD	70	20	10	NW	3	2	breccia with qtz veins, sandstone
K919913	08_12	NAD83	9	444046	7044953	1496	SR	GYD	60	30	10	NE	3	3	granite, sed, calcite
K919914	08_12	NAD83	9	444055	7045052	1490	SR	GYD	70	20	10	NW	3	1	dry
K919916	08_12	NAD83	9	444112	7045319	1470	SR	GYD	70	20	10	SW	2	3	sed rocks
K919917	08_12	NAD83	9	444044	7045409	1461	SR	GYD	70	20	10	NW	2	3	sed rock (fractures with calcite)
K919918	08_12	NAD83	9	446447	7045356	1476	SA	TAD	70	20	10	N	4	3	granite, sed rock outcrop with pyrite
K919919	08_12	NAD83	9	446438	7045364	1473	SA	TAD	70	20	10	E	4	3	granite, sed rocks
K919920	08_12	NAD83	9	447593	7045494	1372	SR	BRL	50	30	20	E	1	3	
K919921	08_12	NAD83	9	438924	7042158	1464	SR	TA	20	50	30	N	2	3	
K919922	08_12	NAD83	9	439109	7042852	1449	SR	TA	0	20	80	N	1	3	
K919923	08_12	NAD83	9	439354	7044182	1445	SR	TA	0	20	80	N	1	3	
K919924	08_12	NAD83	9	440625	7039758	1464	WR	CWD	40	30	20	E	1	3	
K919925	08_12	NAD83	9	441343	7040055	1453	SA	RBR	60	20	20	E	1	3	contact zone of gossan on SE side of creek.
K919926	08_12	NAD83	9	441445	7040078	1461	SR	BR	60	30	10	N	2	3	
K919927	08_12	NAD83	9	441486	7036469	1537	SR	GY	20	50	30	E	2	3	
K919928	08_12	NAD83	9	442047	7036956	1517	SR	BR	20	50	30	E	2	3	
K919929	08_12	NAD83	9	442899	7037120	1481	SR	BR	70	20	10	SE	2	3	
K919827	08_12	NAD83	9	444653	7039161	1448	SR	GYD	40	50	10	NW	1	4	sed. Siltstone dominantly. Rounded boulders of fsp porphyritic syenite/monz.
K919828	08_12	NAD83	9	444574	7039207	1446	SR	BRD	50	50	0	N	1	4	sed. Siltstone dominantly. Some shale. Minor qtz crystals. Rounded syen/monz boulders.
K919829	08_12	NAD83	9	446451	7041204	1408	SA	BRD	40	50	10	NE	1	4	sed. Siltstone dominantly. Some shale and mudstone. Rounded small and large boulders of qtz monz. weak lim.
K919830	08_12	NAD83	9	446541	7041202	1412	SR	BRD	0	0	0	NW	4	4	sed. Shale. Mnz and qtz monz boulders, rounded. Weak lim.
K919832	08_12	NAD83	9	446658	7042948	1430	SA	BRL	40	30	30	NE	1	4	lots of fine sand. Shale and sed. Weak to moderate lim
K919833	08_12	NAD83	9	448269	7043603	1361	SR	BR	0	60	40	NE	1	5	all sand. Meta sed and sed
K919834	08_12	NAD83	9	448390	7043425	1363	SR	BRD	60	40	0	NW	1	5	sed and metased. Tr qtz
K919835	08_12	NAD83	9	448632	7045176	1344	SR	BR	10	80	10	N	1	5	all fines. Black shale, shale, sed. Large monz boulders, rounded. Weak carbonate in sed
K919836	08_12	NAD83	9	448418	7046534	1329	SR	BR	60	40	0	NW	1	4	metased. Weak carbonate. Some carb veins. Rounded monz boulders.

SER Sample Descriptions

Sample No.	Sample Date 2011-M-D	Datum	Zone	Easting	Northing	Elevation (m)	Angularity	Color	Gravel	Sand	Silt	Slope Dir	Slope Angl	Stream Flow	Comments
K919837	08_12	NAD83	9	448614	7046629	1330	SR	BR	30	60	10	E	1	5	large dio/qtzmonz boudlers. Fsp pheric (up to 5cm) and rounded. Overall, metaseds. Dark shale and pale shale. Lots of fines.
K919838	08_12	NAD83	9	441631	7038906	1665	SA	BR	40	10	10	NE	4	4	quartzite with minor fsp. Strongly ser altered and lim alt. near very oxidized outcrop. Rock samples J971497-501 are taken from this area.
K919839	08_12	NAD83	9	441745	7039509	1589	SR	BR	80	20	0	N	2	4	green, ser alt qtzite. Banded sltstone. White crust on some rocks, no fizz.
K919840	08_12	NAD83	9	442660	7036975	1483	SR	BR	60	40	0	E	1	4	qtzite, shale, argillite. Rouned qtz monz boulders. Fsp pheric.
K919869	08_12	NAD83	9	451137	7045533	1383	SR	BRD	30	20	50	N	2	3	swamp
K919870	08_12	NAD83	9	450643	7045810	1369	SR	BRD	50	20	30	N	1	5	metaseds
K919871	08_12	NAD83	9	449827	7046595	1329	SA	BK	50	30	20	N	1	5	metaseds

Key

Color			
D	dark	YE	yellow
L	light	OR	orange
GY	grey	GR	green
BK	black	PK	pink
RD	red	TA	tan
BR	brown	CW	cream
RBR	red brown		

Clast angularity	
WR	well rounded
R	rounded
SR	subrounded
SA	subangular
A	angular

Slope Angle	
1	flat (<5°)
2	gentle (<5-15°)
3	moderate (<15-25°)
4	steep (>25°)

Stream Flow	
1	dry
2	stagnent
3	slow
4	moderate
5	fast

SER Sample Descriptions

Sample No	Claim	Grid	Zone	Easting	Northing	Elevation (m)	Sample Type	Sample Source	Lithology	Comments
J971496	SERB	NAD83	9	453397	7043419	1510	Rock	Outcrop	shale	small qtz veins (0.5-2cm width, pinch and swell) with black jack sphalerite? Soft, greasy-resinous lustre, curved faces, slightly tetrahedral, dark gray streak. Weak carbonate in veins. Limonite selvage around veins. Host rock is shale to banded shale/argillite. Rock is very strongly weathered and soft in texture. Small carbonate stringers throughout host. Beds dip roughly NNE. To west there is a river and then black shale (graphitic?) that dip to the NW.
J971497	SERC	NAD83	9	441026	7038706	1855	Rock	Outcrop	quartzite	gray-green quartzite between slate layers. Quartzite is strongly sericite altered, py is very fine to fine grained and disseminated throughout (~10%), with occasional small blebs. Weakly calcareous. Very strongly lim and goe altered surficially and along fractures and cleavage planes. Jarosite? crystals in some vuggy/leached sections. These sections also contain some very strongly limonite and goethite altered cubic crystals up to 2mm in size. The rock is strongly magnetic in patches.
J971498	SERC	NAD83	9	441028	7038717	1892	Rock	Outcrop	quartzite	gray-green, strongly sericite altered quartzite. Very fine to fine grained disseminated py throughout (~5%). Occasional small blebs. Strongly lim and goe altered surficially. Minor dark gray, matte lustered, dendritic mineral along fractures. Occasional py pod/nodules up to 2cm in size.
J971499	SERC	NAD83	9	441027	7038719	1889	Rock	Outcrop	quartzite	red speckled, green quartzite with minor graphitic silty bands. Weakly deformed. Trace chalcopyrite. Very fine to fine grained, disseminated py throughout (8%). Trace carbonate. Strong surficial loam and goe alteration and strong ser alt. minor jarosite? weakly magnetic in sections.
J971500	SERC	NAD83	9	441026	7038793	1902	Rock	Outcrop	slate	blue-gray slate. Small, up to 0.5cm stibnite? Crystals. Appear orthorhombic, elongate/bladed. Some of the crystals are lim altered. Surfaces of fractures of host rock are very strongly lim and goe altered. Some jarosite? Yellow alteration strong on outcrop surface. seeping aragonite curls and yellow frothy carbonate on rock walls. occasional rounded concretions.
J971501	SERC	NAD83	9	441015	7038790	1884	Rock	Outcrop	quartzite	green, strongly sericite altered quartzite. Fine grained barite crystals? Very fine to fine grained py disseminated throughout (5%). Occasional blebs. Strongly lim and goe altered surfaces.
J971502	SERA	NAD83	9	449107	7029927	1526	Rock	Outcrop	shale	black graphitic shale. Very weathered. Strong surficial lim and goe alteration. Minor brecciation with lim and goe matrix. Occasional 0.5cm width qtz veins with Fe staining and some black inclusions. ~5% very finely grained disseminated py throughout.
J971506	SERC	NAD83	9	439354	7044183	1445	Rock	Float	sandstone	course to medium grained sst. Remaining grains are all qtz. The rock is very leached and vuggy. Very strong lim and goe alt around the qtz grains.
J971507	SERC	NAD83	9	439354	7044183	1445	Rock	Float	chert	banded chert with weakly sheared and brecciated zone (chert, qtz and shale). Tr py. Minor vugs. Moderate to weak lim alt and weak goe. Tr carb in shear.
J971508	SERC	NAD83	9	439354	7044183	1445	Rock	Float	quartz vein	box work qtz veining with course grained py (3% of veins). Vuggy. In shale/slate host. Strong lim and goe alt. minor mica on most altered sections.
J971509	SERC	NAD83	9	451585	7034392	1570	Rock	Float	shale	shale. Heavy. Moderate to strong lim and goe alt. Py nodules with two stages of py. Secondary has radiating py. Nodules are up to 5 cm in length, oblong in shape. Some small clusters as well.
J971510	SERC	NAD83	9	451585	7034392	1570	Rock	Float	monzonite	medium grained monzonite with moderate lim alt. course grained arsenopyrite clusters (1%) of up to 2cm in diameter. Most are only up to 2mm. Some muscovite crystals. Minor ser alt.
J971511	SERC	NAD83	9	449517	7032226	1594	Rock	Float	shale	shale with moderate qtz stringers and qtz flooding. Strong lim and minor goe. Weak jarosite?
J971512	SERC	NAD83	9	449517	7032226	1594	Rock	Float	quartz vein	fine to course grained black jack sphalerite? (adamantine lustre. Tetrahedral with curved surfaces) With stockwork qtz and lim veining. Host was possibly a shale, but there is not much host rock visible.
J971513	SERC	NAD83	9	440486	7038443	1924	Rock	Float	sandstone	banded white and black sst. Strong surficial lim and goe alt. sericite alt. fg py nodules from 3mm-1cm (4%).
J971514	SERC	NAD83	9	440468	7038449	1922	Rock	Outcrop	sandstone	strong lim and goe alt. fg sst? Minor jarosite? Patchy muscovite. Course grained acicular epidote? Crystals.
J971515	SERC	NAD83	9	440468	7038449	1922	Rock	Outcrop	slate	strongly lim alt and moderately goe alt slate. One piece is garnet rich (grossular)- 5% in one piece, ranging in size from 0.5-2mm. Minor muscovite at the most garnet rich areas.
J971516	SERC	NAD83	9	440522	7038464	1924	Rock	Float	sandstone	black and white banded sst? Strongly altered. Skarn. Gneissic in some sections. Dark bands have elongate, needle like crystals. Look similar to ilviate. Dark brown and glassy. One piece has a black band of vfg qtz, lim and goe. Strong lim and goe surficial alt. patchy weak muscovite.
J971520	SERC	NAD83	9	444586	7046520	1448	Rock	Float	one conglom	fossiliferous limestone conglomerate. Limonite pods and replaced clasts. Polymict with seds and metaseds. Carbonate veining. cherty mudstone. Py pods with two stages of py. Minor cpy (<0.5%) and +/- bornite. Vfg py along some fractures and patchily disseminated throughout (2%). Strong lim and goe alt.
J971521	SERC	NAD83	9	451448	7034779	1551	Rock	Float	mudstone	Found as angular float on mountain side below glacier, among large boulders of granite and seds. Contains fine-grained arsenopyrite (1%) and pyrite (0.5%). Some of the quartz is grey, indicating possible fine-grained sulphides. Quartz is course-grained. Strong limonite and goethite alteration and moderate scoridite alteration. Minor brecciation of some of the quartz. Greater than normal heft to specimen.
J971522	SERC	NAD83	9	440532	7038428	1893	Rock	Float	quartz	
J971523	SERC	NAD83	9	446443	7045352	1478	Rock	Outcrop	sandstone	Fine-grained sandstone occurring on ridge between two creeks; sericite altered, with malachite staining; interbedded with black siltstone with malachite staining; side walls of creeks composed of hard, rusty sediments with massive pyrite nodules, as well as disseminated pyrite.

Appendix 3

Assay Certificates



ALS Canada Ltd.

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Page: 1
Finalized Date: 27-OCT-2011
Account: GOPRED

CERTIFICATE WH11164932

Project: Selwyn

P.O. No.: GPD2011SELWYN003

This report is for 129 Stream Sediment samples submitted to our lab in Whitehorse, YT, Canada on 21-AUG-2011.

The following have access to data associated with this certificate:

MIKE BURKE
LINDA LEWIS

ANDREW CALDWELL
MIKE MASLOWSKI

JACK COTE
BRUCE OTTO

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
DRY-22	Drying - Maximum Temp 60C
LOG-21d	Sample logging - ClientBarCode Dup
SPL-34	Pulp Splitting Charge
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-OG44	Ore Grade Au - 50g AR	ICP-MS
Au-ST44	Super Trace Au - 50g AR	ICP-MS
ME-MS41	51 anal. aqua regia ICPMS	

To: GOLDEN PREDATOR CANADA CORP.
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 27-OCT-2011
Account: GOPRED

Project: Selwyn

CERTIFICATE OF ANALYSIS WH11164932

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST44 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
K919817		6.30	0.0011	0.78	0.52	32.1	<0.2	<10	470	0.62	0.25	1.59	2.37	24.0	12.0	8
K919818		8.28	0.0003	0.70	0.46	14.2	<0.2	<10	730	0.52	0.13	5.53	6.13	31.1	9.3	19
K919819		8.34	0.0018	0.68	0.98	24.8	<0.2	<10	1080	1.23	0.19	3.79	19.80	26.5	143.5	29
K919820		7.64	0.0005	0.74	0.60	24.7	<0.2	<10	890	0.72	0.18	3.35	6.14	28.6	26.6	17
K919821		5.38	0.0018	0.48	1.85	11.5	<0.2	<10	550	1.72	0.20	0.13	3.94	15.65	56.2	16
K919822		5.90	0.0012	0.73	0.83	10.4	<0.2	<10	580	0.60	0.24	0.40	2.53	10.90	6.9	18
K919823		6.24	0.0016	0.75	0.68	20.9	<0.2	<10	520	0.71	0.23	0.98	2.77	29.6	13.3	10
K919824		7.14	0.0004	1.05	0.56	24.2	<0.2	<10	390	0.68	0.22	1.05	4.01	21.4	13.1	7
K919825		6.54	0.0011	0.91	0.62	11.1	<0.2	<10	530	0.92	0.19	2.50	25.9	20.7	35.3	9
K919826		7.26	0.0018	0.96	1.35	13.9	<0.2	<10	720	1.33	0.17	0.59	7.66	14.10	33.9	15
K919827		7.28	0.0019	0.35	1.19	46.5	<0.2	<10	610	0.71	0.78	0.62	1.15	69.7	11.9	18
K919828		5.70	0.0014	0.30	1.02	18.3	<0.2	<10	550	0.64	0.17	0.76	0.84	49.9	11.2	19
K919829		7.14	0.0014	0.30	0.75	24.2	<0.2	<10	1000	0.59	0.40	2.60	1.45	49.7	9.0	15
K919830		11.00	0.0023	0.52	0.72	11.2	<0.2	<10	2320	0.62	0.19	2.01	2.07	25.1	11.7	21
K919831		<0.02	0.0017	0.52	0.74	11.3	<0.2	<10	2320	0.60	0.20	2.04	2.10	24.4	11.8	22
K919832		10.44	0.0009	0.04	0.55	8.5	<0.2	<10	110	0.31	2.47	0.37	0.11	84.1	5.4	8
K919833		6.34	0.0057	0.04	0.42	12.2	<0.2	<10	200	0.30	0.43	0.45	0.15	210	5.3	5
K919834		5.96	0.0022	0.29	0.98	23.9	<0.2	<10	1170	0.63	0.51	0.73	0.87	61.6	10.1	17
K919835		8.90	0.0011	0.05	0.47	9.2	<0.2	<10	170	0.32	1.04	0.39	0.16	145.5	5.6	6
K919836		7.68	0.0020	0.18	0.81	15.5	<0.2	<10	430	0.76	0.30	1.48	0.73	46.4	13.8	15
K919837		8.50	0.0012	0.07	0.50	13.0	<0.2	<10	240	0.30	0.47	0.45	0.25	121.5	5.8	7
K919838		6.98	0.0020	0.39	3.39	144.5	<0.2	<10	190	2.10	1.93	0.77	2.20	94.9	42.5	45
K919839		6.00	0.0029	0.45	3.04	134.5	<0.2	<10	200	1.74	2.10	1.07	2.86	63.3	46.6	37
K919840		7.82	0.0040	0.19	1.40	67.3	<0.2	<10	170	0.75	0.95	0.53	1.11	85.0	13.7	20
K919841		6.64	0.0034	0.51	0.74	9.5	<0.2	<10	640	0.54	0.22	0.83	1.71	45.0	11.9	17
K919842		7.24	0.0017	0.41	0.83	20.0	<0.2	<10	910	0.64	0.43	0.96	5.08	37.7	8.9	28
K919843		7.44	0.0885	0.26	1.14	26.1	<0.2	<10	870	0.55	0.24	3.74	0.98	45.1	7.3	16
K919844		6.80	0.0103	0.19	1.04	10.3	<0.2	<10	1370	0.59	0.26	0.56	1.82	52.9	9.3	17
K919845		0.16	0.0021	0.18	0.97	3.1	<0.2	<10	70	0.18	0.04	0.64	0.16	9.29	7.2	29
K919846		6.32	0.0038	0.37	0.93	16.6	<0.2	<10	1170	0.77	0.30	0.79	1.90	47.3	14.3	21
K919847		8.06	0.0042	0.29	0.91	9.1	<0.2	<10	1120	0.65	0.24	0.86	2.26	34.6	9.7	16
K919848		6.68	0.0034	0.40	0.90	11.7	<0.2	<10	1340	0.68	0.21	0.90	2.95	39.6	8.7	21
K919849		6.48	0.0015	0.12	0.99	11.0	<0.2	<10	770	0.43	0.20	0.80	1.63	40.2	10.5	15
K919850		8.18	0.0024	0.36	0.89	15.8	<0.2	<10	1090	0.67	0.22	1.44	3.33	39.2	10.8	21
K919851		5.74	0.0015	0.71	0.72	20.4	<0.2	<10	260	0.69	0.18	1.93	2.77	27.5	12.2	10
K919852		6.56	0.0022	0.88	0.70	25.3	<0.2	<10	510	0.73	0.22	1.15	3.37	27.5	14.3	9
K919853		5.22	0.0015	0.49	0.75	16.8	<0.2	<10	660	0.73	0.17	1.42	2.07	39.8	10.4	12
K919854		6.30	0.0015	0.43	0.77	14.0	<0.2	<10	810	0.73	0.15	1.40	3.31	25.3	13.6	15
K919855		5.46	0.0010	0.45	0.73	15.1	<0.2	<10	670	0.77	0.15	1.54	3.61	27.2	14.4	14
K919856		7.58	0.0011	0.46	0.73	20.2	<0.2	<10	480	0.75	0.21	1.00	3.36	29.8	12.5	11



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Plus Appendix Pages
Finalized Date: 27-OCT-2011
Account: GOPRED

Project: Selwyn

CERTIFICATE OF ANALYSIS WH11164932

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.02	ppm 0.01	ppm 0.005	% 0.01	ppm 0.2	ppm 0.1	% 0.01	ppm 5	ppm 0.05	% 0.01
K919817		2.66	81.9	3.19	1.67	0.09	0.15	0.15	0.039	0.14	11.2	6.3	0.30	386	14.40	0.02
K919818		2.03	47.3	1.87	1.55	0.09	0.14	0.09	0.029	0.13	19.9	3.2	1.75	248	19.35	0.03
K919819		1.55	142.5	2.09	3.26	0.15	0.21	0.18	0.034	0.12	15.1	31.8	1.28	5270	72.1	0.03
K919820		2.05	78.1	2.58	2.02	0.09	0.17	0.15	0.035	0.13	15.4	8.2	0.98	861	25.7	0.03
K919821		1.75	169.5	2.92	2.82	0.11	0.15	0.08	0.037	0.13	5.7	29.4	0.17	1180	10.35	0.01
K919822		1.43	56.2	2.42	2.81	0.07	0.06	0.17	0.035	0.13	5.4	13.3	0.18	108	7.25	0.02
K919823		2.03	96.0	3.65	2.01	0.09	0.07	0.15	0.045	0.13	14.4	9.6	0.36	205	13.35	0.02
K919824		2.42	119.5	3.61	1.58	0.10	0.10	0.14	0.042	0.13	9.8	5.3	0.31	235	15.95	0.01
K919825		2.07	85.0	2.60	1.18	0.09	0.16	0.13	0.038	0.13	10.0	6.3	0.91	1200	17.00	0.02
K919826		1.25	162.0	2.45	1.97	0.09	0.07	0.13	0.031	0.10	6.1	13.4	0.29	784	16.85	0.02
K919827		4.58	55.0	3.02	4.57	0.13	0.07	0.04	0.032	0.25	39.6	21.6	0.50	360	5.95	0.03
K919828		2.25	39.6	3.63	3.54	0.11	0.07	0.05	0.030	0.17	26.7	15.0	0.56	1110	3.87	0.02
K919829		3.67	46.4	2.28	2.84	0.09	0.09	0.27	0.026	0.17	28.0	11.1	1.36	351	19.10	0.03
K919830		2.47	53.7	2.84	2.11	0.08	0.07	0.22	0.035	0.14	13.3	7.2	0.89	511	6.66	0.04
K919831		2.50	55.4	2.87	2.14	0.08	0.07	0.23	0.035	0.14	12.9	7.3	0.91	512	6.70	0.04
K919832		3.00	10.5	1.10	2.72	0.09	0.06	<0.01	0.007	0.19	44.6	16.2	0.26	166	0.77	0.03
K919833		1.82	14.1	0.90	2.44	0.17	0.09	0.02	0.008	0.07	113.5	8.2	0.15	126	1.12	0.03
K919834		4.09	36.9	2.51	3.69	0.09	0.07	0.11	0.027	0.20	33.6	16.3	0.43	399	4.94	0.03
K919835		2.18	12.1	0.97	2.35	0.13	0.07	<0.01	0.007	0.10	78.4	10.3	0.18	182	1.39	0.03
K919836		2.33	34.8	3.40	3.01	0.09	0.06	0.05	0.034	0.09	23.8	13.5	0.35	774	2.97	0.02
K919837		2.45	13.9	1.24	2.43	0.12	0.07	0.03	0.009	0.11	66.0	11.0	0.24	204	1.05	0.03
K919838		13.70	82.9	6.12	12.00	0.22	0.09	0.02	0.055	0.52	48.3	52.2	1.09	1500	7.10	0.03
K919839		15.35	88.2	5.52	9.65	0.17	0.11	0.03	0.054	0.46	35.7	46.0	1.49	1980	7.16	0.04
K919840		5.66	39.0	3.04	5.53	0.14	0.04	0.03	0.027	0.27	47.1	29.1	0.52	650	4.47	0.03
K919841		2.49	57.3	3.40	2.47	0.10	0.07	0.10	0.032	0.12	23.4	12.1	0.51	829	7.38	0.02
K919842		2.29	47.0	2.94	3.01	0.11	0.05	0.21	0.025	0.13	21.5	11.7	0.26	1400	17.65	0.02
K919843		2.67	28.0	3.69	3.55	0.09	0.05	0.07	0.024	0.14	24.2	19.8	0.49	617	3.34	0.03
K919844		2.20	28.0	2.81	3.68	0.10	0.04	0.04	0.024	0.13	27.5	18.2	0.37	320	3.95	0.03
K919845		0.33	22.6	2.00	3.96	0.10	0.28	0.03	0.016	0.06	4.7	7.1	0.46	297	4.28	0.05
K919846		2.19	50.9	3.77	3.10	0.08	0.03	0.09	0.030	0.14	25.6	18.8	0.34	408	6.50	0.01
K919847		2.16	43.9	2.71	3.19	0.09	0.06	0.18	0.032	0.15	18.0	12.6	0.28	438	3.90	0.02
K919848		1.66	48.1	2.57	3.10	0.09	0.05	0.20	0.030	0.14	20.6	12.0	0.25	324	5.74	0.03
K919849		2.05	14.3	3.63	3.41	0.10	0.05	0.05	0.017	0.10	20.6	19.7	0.39	2500	4.48	0.03
K919850		2.02	45.1	3.23	3.16	0.10	0.07	0.17	0.027	0.14	21.0	14.1	0.63	1360	9.97	0.03
K919851		2.07	93.1	3.30	2.05	0.10	0.15	0.12	0.040	0.13	14.1	10.8	0.80	202	11.15	0.02
K919852		2.22	118.5	4.07	1.80	0.11	0.15	0.17	0.043	0.13	12.6	9.0	0.40	284	15.60	0.02
K919853		1.52	69.4	2.92	2.23	0.10	0.10	0.13	0.039	0.15	20.3	10.4	0.42	216	8.65	0.02
K919854		1.58	61.7	2.23	2.18	0.09	0.12	0.13	0.030	0.12	13.4	12.0	0.41	287	9.75	0.02
K919855		1.60	61.6	2.33	2.05	0.09	0.10	0.13	0.030	0.12	14.4	11.0	0.45	361	10.70	0.02
K919856		2.01	66.1	3.45	2.15	0.09	0.07	0.15	0.038	0.12	14.7	9.8	0.31	640	10.85	0.02



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
K919817		0.13	46.6	2400	14.5	8.5	0.021	0.16	4.39	5.4	3.6	0.3	45.3	0.01	0.06
K919818		0.13	85.0	1770	9.9	9.3	0.073	0.08	7.52	4.6	4.7	0.3	171.5	0.01	0.06
K919819		0.15	524	920	13.9	9.7	0.022	0.10	8.16	4.1	7.4	0.6	182.0	0.02	0.11
K919820		0.16	120.0	2170	13.0	8.9	0.027	0.11	6.23	4.9	4.5	0.4	120.5	0.01	0.07
K919821		0.14	124.0	760	16.3	9.8	0.007	0.19	2.70	4.3	4.5	0.4	30.7	0.02	0.08
K919822		0.18	52.8	660	15.8	12.2	0.007	0.07	2.51	3.2	4.2	0.5	33.7	<0.01	0.08
K919823		0.19	49.7	2310	16.7	8.1	0.009	0.15	3.64	5.3	4.0	0.3	47.4	0.01	0.07
K919824		0.10	48.7	2690	17.5	9.2	0.015	0.22	5.20	5.0	6.2	0.3	46.5	0.01	0.07
K919825		0.10	324	650	13.4	8.1	0.052	0.28	5.58	5.6	5.3	0.3	83.7	0.01	0.06
K919826		0.13	162.5	940	11.8	8.5	0.012	0.19	4.33	4.0	4.9	0.3	60.4	0.01	0.08
K919827		1.39	38.1	1750	15.9	29.7	0.005	0.07	2.49	4.1	2.0	0.9	54.3	0.01	0.05
K919828		0.38	38.8	1940	9.2	18.3	0.004	0.05	1.21	3.4	2.2	0.4	54.5	0.01	0.06
K919829		0.78	56.0	1750	12.6	19.2	0.009	0.07	2.61	3.9	2.1	0.6	137.5	0.01	0.05
K919830		0.41	61.0	1400	11.0	13.6	0.007	0.10	2.18	4.9	2.4	0.4	178.0	0.01	0.06
K919831		0.40	61.8	1440	11.0	13.4	0.007	0.09	2.25	5.0	2.3	0.4	180.5	0.01	0.05
K919832		1.23	7.8	600	3.4	21.3	<0.001	0.02	0.52	1.5	0.3	0.7	25.9	<0.01	0.03
K919833		0.78	8.4	980	4.1	7.8	0.001	0.03	0.48	1.3	0.5	0.6	24.4	0.01	0.01
K919834		1.18	34.9	1850	10.9	25.0	0.004	0.04	1.63	3.6	1.4	0.8	71.1	0.01	0.04
K919835		0.92	9.0	740	3.9	11.2	0.001	0.02	0.46	1.4	0.4	0.6	24.3	<0.01	0.01
K919836		0.55	31.9	1570	16.5	11.0	0.002	0.04	1.51	4.0	1.3	0.4	48.6	<0.01	0.04
K919837		0.93	11.2	800	7.0	12.2	0.001	0.11	0.60	1.7	0.6	0.6	23.5	<0.01	0.01
K919838		2.34	65.0	1460	31.2	72.9	0.001	0.08	3.65	6.2	2.4	1.5	64.4	0.01	0.06
K919839		2.13	97.0	2450	30.1	55.5	0.002	0.11	3.95	5.6	2.5	1.3	71.1	0.01	0.08
K919840		1.93	31.1	1250	15.8	33.4	0.002	0.02	3.09	3.8	1.3	1.1	39.6	0.01	0.04
K919841		0.44	64.7	850	13.7	11.4	0.005	0.04	1.92	4.5	2.4	0.4	57.9	0.01	0.06
K919842		0.57	72.8	2660	13.9	17.9	0.009	0.06	4.82	3.1	4.5	0.5	104.5	0.01	0.08
K919843		0.77	35.5	4730	11.5	15.2	0.004	0.14	1.60	2.6	1.9	0.5	76.3	<0.01	0.04
K919844		1.09	39.3	1380	12.6	19.0	0.004	0.04	1.26	2.9	1.2	0.6	44.4	0.01	0.04
K919845		0.24	22.0	460	2.3	3.2	0.001	0.04	0.28	4.2	0.4	0.4	25.4	<0.01	0.03
K919846		0.76	57.2	2600	16.9	19.6	0.003	0.01	2.37	4.0	1.9	0.5	68.0	<0.01	0.06
K919847		0.72	38.5	2330	15.2	21.6	0.007	0.05	1.28	3.3	2.0	0.5	71.8	0.01	0.08
K919848		0.63	43.3	2670	12.1	17.6	0.007	0.06	2.65	3.4	2.5	0.5	72.0	0.01	0.06
K919849		1.00	44.6	1450	7.7	18.0	0.012	0.11	0.70	2.2	2.6	0.4	52.9	<0.01	0.03
K919850		0.88	60.3	2000	13.2	17.4	0.008	0.07	2.72	3.5	2.7	0.5	98.0	0.01	0.06
K919851		0.11	47.9	2570	16.4	8.5	0.012	0.25	4.21	5.8	4.2	0.3	61.7	0.01	0.06
K919852		0.11	55.1	2830	19.2	8.0	0.013	0.14	4.47	5.9	5.0	0.3	47.1	0.01	0.07
K919853		0.17	43.6	4050	14.7	7.6	0.009	0.11	3.25	4.7	3.1	0.3	58.6	0.01	0.06
K919854		0.14	79.1	2100	12.4	8.4	0.012	0.08	2.95	3.9	2.8	0.3	58.1	0.01	0.06
K919855		0.15	77.7	2230	12.7	9.7	0.013	0.09	3.25	4.1	3.1	0.3	59.3	0.01	0.06
K919856		0.17	44.0	2740	17.3	7.8	0.008	0.07	3.53	4.5	3.1	0.3	44.3	0.01	0.06



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Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm	Au-OG44 Au ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
K919817		<0.005	0.24	2.75	38	0.18	13.25	268	10.1	
K919818		<0.005	0.37	4.77	166	0.09	23.4	588	8.6	
K919819		<0.005	1.50	9.14	517	0.23	77.6	2460	7.0	
K919820		<0.005	0.49	4.79	190	0.15	26.0	634	10.0	
K919821		<0.005	0.52	2.71	56	0.10	55.9	593	4.5	
K919822		<0.005	0.38	3.33	102	0.06	10.85	306	1.8	
K919823		<0.005	0.21	4.32	37	0.08	16.60	260	3.8	
K919824		<0.005	0.25	4.03	35	0.06	15.85	357	7.4	
K919825		<0.005	0.81	5.00	69	0.05	25.4	2000	7.8	
K919826		<0.005	0.50	6.51	91	0.09	35.4	773	1.6	
K919827		0.053	0.39	5.44	51	0.99	14.45	180	3.7	
K919828		0.009	0.15	1.93	44	0.12	14.30	151	3.0	
K919829		0.024	0.36	4.52	80	2.30	17.90	232	5.6	
K919830		0.013	0.21	2.42	72	0.14	17.40	242	2.9	
K919831		0.014	0.21	2.47	74	1.43	17.25	248	2.7	
K919832		0.067	0.21	2.26	20	2.13	6.09	28	1.5	
K919833		0.029	0.10	16.85	14	20.3	10.90	32	2.1	
K919834		0.039	0.28	2.68	50	0.58	14.25	150	3.6	
K919835		0.039	0.13	3.27	16	2.52	7.35	34	1.7	
K919836		0.012	0.15	1.64	32	0.53	10.15	138	2.3	
K919837		0.047	0.15	3.72	19	4.54	7.83	39	2.2	
K919838		0.130	0.95	14.00	96	0.60	14.15	234	3.7	
K919839		0.107	0.74	17.20	100	0.53	19.90	296	4.7	
K919840		0.091	0.63	15.50	56	2.20	12.20	143	1.0	
K919841		0.012	0.19	2.00	35	0.18	14.70	242	2.9	
K919842		0.015	0.63	4.50	234	3.28	21.2	544	1.7	
K919843		0.025	0.22	1.91	44	1.92	9.82	174	1.2	
K919844		0.034	0.29	1.89	66	0.56	10.95	351	1.0	
K919845		0.106	0.05	0.29	44	10.20	6.63	33	8.6	
K919846		0.026	0.32	6.61	81	3.22	18.15	242	0.8	
K919847		0.018	0.19	2.13	69	0.83	17.40	241	1.5	
K919848		0.017	0.26	2.95	128	3.56	16.75	359	1.2	
K919849		0.026	0.22	3.64	50	0.30	9.26	372	1.3	
K919850		0.024	0.29	3.02	127	0.33	16.75	271	2.3	
K919851		<0.005	0.18	3.16	34	0.08	16.25	279	10.7	
K919852		<0.005	0.25	4.48	31	0.07	17.60	352	10.4	
K919853		<0.005	0.16	3.11	48	0.13	20.1	265	6.7	
K919854		<0.005	0.32	3.29	103	0.48	20.5	446	6.0	
K919855		<0.005	0.30	3.15	93	0.12	20.9	448	5.5	
K919856		<0.005	0.19	3.25	38	0.11	15.65	325	4.1	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST44 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
K919857		5.28	0.0020	0.39	0.79	15.1	<0.2	<10	700	0.73	0.19	0.97	2.17	37.4	9.7	14
K919858		7.44	0.0047	0.45	1.05	13.2	<0.2	<10	920	0.67	0.19	0.80	1.51	35.0	10.6	16
K919859		6.40	0.0089	0.43	0.92	9.4	<0.2	<10	810	0.59	0.16	0.88	1.13	34.9	8.5	15
K919860		5.78	0.0026	0.40	0.91	19.3	<0.2	<10	820	0.82	0.21	1.48	2.89	32.9	12.2	17
K919861		6.52	0.0014	0.83	0.60	14.1	<0.2	<10	910	0.85	0.16	0.47	8.37	15.50	20.2	12
K919862		5.84	0.0020	0.66	0.72	18.3	<0.2	<10	1280	0.78	0.20	1.08	5.73	22.6	9.0	17
K919863		7.02	0.0007	0.83	0.86	14.3	<0.2	<10	470	1.11	0.14	2.23	11.65	14.70	22.5	12
K919864		6.16	0.0018	0.61	0.57	10.3	<0.2	<10	770	0.75	0.16	0.67	6.28	15.60	13.5	12
K919865		0.14	0.0013	0.21	1.00	3.2	<0.2	<10	80	0.18	0.04	0.65	0.18	9.54	7.5	29
K919866		6.88	0.0006	0.36	0.27	8.9	<0.2	<10	590	0.32	0.14	0.57	3.49	8.26	5.7	6
K919867		6.08	0.0006	0.37	0.31	6.6	<0.2	<10	650	0.37	0.16	0.09	1.09	7.25	5.5	5
K919868		5.12	0.0005	0.63	0.51	31.9	<0.2	<10	1740	0.78	0.12	5.19	10.80	23.3	11.7	30
K919869		6.80	0.0013	0.31	0.55	16.5	<0.2	<10	390	0.69	0.12	4.05	1.30	28.7	10.1	8
K919870		7.50	0.0014	0.40	0.70	13.9	<0.2	<10	690	0.78	0.16	2.39	4.17	29.4	13.0	12
K919871		8.34	0.0011	0.37	0.95	24.4	<0.2	<10	870	0.90	0.46	1.18	2.33	44.5	8.7	21
K919872		7.38	0.0222	0.23	1.81	83.3	<0.2	<10	300	1.24	3.34	1.04	0.95	64.7	10.2	37
K919873		6.48	0.0716	0.22	1.99	91.6	<0.2	<10	250	1.84	8.05	1.12	0.79	77.7	10.8	43
K919874		7.92	0.0223	0.28	1.64	130.0	<0.2	<10	250	1.30	3.65	0.99	1.08	66.2	10.3	39
K919875		6.70	>0.1000	0.53	1.90	732	<0.2	<10	360	1.55	63.4	0.79	1.65	60.1	29.8	48
K919876		7.18	0.0035	0.50	1.62	15.3	<0.2	<10	430	0.97	0.35	3.01	1.44	41.8	8.1	26
K919877		5.46	0.0040	0.35	1.04	36.6	<0.2	<10	510	0.62	0.38	0.97	2.11	38.8	9.1	23
K919878		7.50	0.0069	0.42	1.09	46.5	<0.2	<10	310	0.85	0.34	1.30	1.30	46.6	10.4	32
K919879		7.46	0.0085	0.31	1.44	130.5	<0.2	<10	470	1.24	4.92	1.02	2.23	60.7	11.7	34
K919880		10.64	0.0009	0.34	0.91	20.4	<0.2	<10	810	0.73	0.47	1.95	2.55	37.2	7.8	23
K919881		<0.02	0.0003	0.39	0.90	22.2	<0.2	<10	780	0.81	0.93	1.92	2.81	39.2	8.5	23
K919882		7.18	0.0019	0.90	3.78	41.8	<0.2	<10	60	1.93	0.14	0.18	1.63	30.1	13.3	7
K919883		7.24	0.0066	0.68	3.57	198.0	<0.2	<10	160	4.55	0.66	0.54	8.33	99.3	119.5	30
K919884		6.02	0.0013	0.37	0.97	23.3	<0.2	<10	220	0.55	0.41	0.72	0.85	47.0	11.8	15
K919885		6.18	0.0015	0.70	1.86	53.3	<0.2	<10	210	1.74	0.30	0.88	10.25	67.7	50.0	21
K919886		6.62	0.0007	0.72	0.66	22.3	<0.2	<10	250	0.66	0.26	2.65	4.10	35.4	12.0	14
K919887		6.88	0.0022	0.52	2.81	71.6	<0.2	<10	170	2.47	0.37	0.64	15.60	95.8	103.0	21
K919901		5.46	0.0014	0.48	0.90	19.6	<0.2	<10	580	0.64	0.23	1.32	1.16	43.2	12.8	12
K919902		6.22	0.0034	0.90	1.18	15.2	<0.2	<10	490	0.86	0.23	1.29	2.60	41.4	11.0	16
K919903		5.70	0.0025	0.93	0.96	18.0	<0.2	<10	620	0.77	0.25	1.32	6.29	37.9	8.5	17
K919904		6.50	0.0018	0.49	0.76	19.8	<0.2	<10	610	0.79	0.30	0.86	2.36	40.5	9.4	13
K919905		5.44	0.0030	0.40	0.85	18.0	<0.2	<10	530	0.70	0.21	1.08	2.00	45.4	9.3	16
K919906		5.30	0.0032	0.51	0.31	14.3	<0.2	<10	180	0.73	0.19	0.43	1.19	27.0	26.1	8
K919907		6.84	0.0027	0.45	0.83	15.9	<0.2	<10	440	0.64	0.20	1.16	1.95	40.1	8.7	14
K919908		4.80	0.0018	0.49	0.83	14.2	<0.2	<10	520	0.64	0.19	1.16	2.19	41.7	10.3	14
K919909		5.64	0.0024	0.43	0.78	17.7	<0.2	<10	320	0.68	0.24	0.88	1.19	41.3	11.3	19



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.02	Hg ppm 0.01	In ppm 0.005	K % 0.01	La ppm 0.2	Li ppm 0.1	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01
K919857		1.77	65.9	2.70	2.39	0.09	0.07	0.12	0.035	0.13	20.5	13.6	0.40	237	7.03	0.02
K919858		1.85	74.7	2.96	3.35	0.10	0.08	0.16	0.036	0.15	17.8	22.8	0.64	135	5.67	0.02
K919859		1.47	108.0	2.75	3.03	0.11	0.06	0.14	0.032	0.13	19.0	22.9	0.70	109	4.56	0.02
K919860		1.91	57.2	3.53	2.93	0.09	0.09	0.12	0.040	0.13	15.9	12.5	0.33	673	8.81	0.02
K919861		1.60	78.6	2.43	1.60	0.08	0.07	0.16	0.036	0.12	7.7	6.8	0.14	494	12.70	0.02
K919862		2.17	62.8	2.51	2.13	0.09	0.05	0.21	0.040	0.13	13.0	7.7	0.21	186	15.70	0.02
K919863		1.52	121.5	2.16	1.36	0.09	0.08	0.22	0.035	0.10	7.2	9.1	0.63	562	13.90	0.02
K919864		1.82	59.6	2.24	1.61	0.07	0.05	0.16	0.032	0.11	7.8	7.4	0.19	269	8.18	0.01
K919865		0.34	22.6	2.03	3.93	0.09	0.28	0.04	0.016	0.06	4.4	7.4	0.47	301	4.21	0.06
K919866		1.24	37.4	1.30	0.94	0.05	0.08	0.09	0.022	0.09	4.7	2.6	0.17	244	10.60	0.02
K919867		1.47	50.2	1.61	1.01	0.05	0.08	0.07	0.024	0.11	3.4	3.4	0.06	139	3.24	0.02
K919868		1.17	60.4	1.67	2.24	0.11	0.14	0.31	0.034	0.13	17.8	6.2	1.16	305	72.2	0.04
K919869		2.79	59.9	2.87	1.72	0.08	0.15	0.15	0.035	0.20	13.6	6.1	0.57	517	7.34	0.02
K919870		1.68	66.0	2.43	1.98	0.09	0.13	0.13	0.033	0.11	15.0	11.1	0.62	330	8.51	0.02
K919871		3.82	49.8	2.39	3.40	0.10	0.09	0.10	0.031	0.17	24.3	17.3	0.52	313	6.73	0.03
K919872		7.23	38.6	2.80	6.74	0.12	0.07	0.03	0.029	0.16	35.8	39.6	0.94	500	2.59	0.03
K919873		10.85	46.5	2.29	7.97	0.17	0.04	0.02	0.037	0.21	44.2	40.7	0.85	236	1.46	0.02
K919874		8.17	41.4	2.33	6.49	0.16	0.04	0.02	0.030	0.13	38.3	33.4	0.76	450	2.23	0.01
K919875		5.88	151.0	5.57	7.19	0.22	0.08	0.02	0.064	0.20	33.5	34.0	0.87	433	7.18	0.03
K919876		2.32	59.8	2.53	5.69	0.18	0.10	0.10	0.029	0.12	22.2	46.6	2.11	162	4.32	0.01
K919877		1.50	36.1	4.06	3.79	0.15	0.06	0.09	0.024	0.10	20.4	22.6	0.73	1160	3.00	0.01
K919878		2.13	44.7	2.58	3.90	0.15	0.09	0.06	0.030	0.10	24.5	23.5	1.00	266	4.09	0.01
K919879		7.77	43.9	2.63	5.96	0.18	0.05	0.04	0.032	0.13	32.6	29.3	0.75	727	3.53	0.02
K919880		2.87	49.2	2.27	3.07	0.15	0.09	0.08	0.028	0.16	21.1	15.7	1.08	272	10.90	0.02
K919881		3.18	52.7	2.21	3.25	0.17	0.08	0.06	0.027	0.16	21.9	17.0	1.07	261	11.70	0.02
K919882		1.66	103.0	17.00	1.07	0.18	0.10	0.02	0.033	0.05	12.3	5.6	0.10	248	9.99	0.01
K919883		6.45	341	6.16	7.20	0.31	0.07	0.06	0.054	0.29	45.5	45.9	0.65	3570	12.45	0.03
K919884		3.30	56.2	3.36	3.50	0.17	0.07	0.08	0.033	0.11	24.3	19.7	0.44	338	3.98	0.01
K919885		3.01	117.5	4.47	3.73	0.21	0.08	0.29	0.037	0.10	38.4	25.1	0.53	1240	11.55	0.01
K919886		2.52	93.9	3.89	2.24	0.15	0.05	0.27	0.032	0.09	19.9	12.6	1.15	452	13.95	0.01
K919887		3.82	178.0	6.10	4.60	0.29	0.14	0.05	0.043	0.15	51.3	32.2	0.51	2880	6.88	0.02
K919901		1.33	74.2	3.61	2.78	0.16	0.08	0.12	0.040	0.12	21.1	20.1	0.66	324	6.62	0.01
K919902		2.94	100.5	3.42	3.82	0.17	0.06	0.18	0.035	0.12	21.8	30.9	1.15	181	7.53	0.01
K919903		1.83	83.6	2.63	3.03	0.15	0.07	0.19	0.039	0.11	22.7	21.8	0.67	183	7.89	0.01
K919904		1.20	59.9	2.65	2.45	0.17	0.04	0.09	0.039	0.10	24.0	12.2	0.23	233	8.37	0.01
K919905		1.36	74.1	2.78	2.85	0.15	0.05	0.09	0.039	0.12	25.7	18.8	0.58	204	6.14	0.01
K919906		1.20	121.5	2.89	1.08	0.13	0.02	0.21	0.046	0.08	14.3	2.0	0.07	625	4.87	<0.01
K919907		1.46	68.9	2.68	2.76	0.13	0.04	0.10	0.032	0.11	21.2	18.6	0.65	204	6.11	0.01
K919908		1.43	72.1	2.61	2.57	0.14	0.05	0.12	0.038	0.11	20.7	17.9	0.58	246	5.91	0.01
K919909		1.60	90.1	2.95	2.82	0.16	0.04	0.16	0.037	0.10	22.5	19.7	0.52	200	3.26	0.01



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb ppm 0.05	Ni ppm 0.2	P ppm 10	Pb ppm 0.2	Rb ppm 0.1	Re ppm 0.001	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 0.2	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.01	Te ppm 0.01	Th ppm 0.2
K919857		0.23	44.3	2790	14.3	7.8	0.006	0.07	2.55	4.2	2.1	0.3	51.5	0.01	0.05	4.8
K919858		0.24	39.2	2080	14.8	9.5	0.004	0.07	1.84	5.1	2.5	0.4	43.4	0.01	0.06	4.2
K919859		0.22	37.3	2090	12.0	8.7	0.004	0.08	1.53	4.4	2.7	0.3	54.6	0.01	0.08	3.8
K919860		0.20	58.5	2920	18.8	8.9	0.006	0.06	3.02	5.6	2.2	0.4	56.0	0.01	0.05	5.0
K919861		0.15	121.5	1090	15.3	7.6	0.022	0.12	5.39	4.4	4.1	0.3	57.5	0.01	0.09	3.8
K919862		0.16	104.5	2800	17.0	10.7	0.008	0.07	5.16	3.3	4.5	0.4	80.1	0.01	0.12	2.1
K919863		0.11	193.0	1850	12.2	7.8	0.023	0.25	3.52	4.5	5.2	0.3	92.6	0.01	0.10	3.4
K919864		0.18	92.0	1160	13.2	9.1	0.019	0.08	3.92	3.6	3.2	0.3	49.3	<0.01	0.08	2.8
K919865		0.22	22.6	460	2.4	3.2	0.001	0.04	0.28	4.3	0.4	0.4	26.6	<0.01	0.03	1.1
K919866		0.07	72.7	500	14.1	6.8	0.020	0.14	2.32	2.2	2.8	0.2	75.2	<0.01	0.06	3.0
K919867		0.07	27.3	440	17.1	7.7	0.003	0.15	1.48	2.3	2.3	0.2	56.8	<0.01	0.06	3.1
K919868		0.16	248	1480	10.5	10.1	0.161	0.13	8.11	4.4	9.6	0.7	323	0.01	0.12	3.7
K919869		0.22	40.1	3370	9.9	9.9	0.009	0.08	1.54	5.0	1.9	0.3	76.8	0.01	0.05	4.6
K919870		0.21	92.5	2540	12.2	8.9	0.019	0.18	2.82	4.3	2.6	0.3	84.7	0.01	0.06	5.1
K919871		0.72	52.1	2710	13.8	19.0	0.008	0.09	2.92	4.1	2.0	0.5	76.5	0.01	0.05	7.1
K919872		2.08	32.7	1860	22.3	20.4	0.002	0.04	7.00	4.1	1.2	0.9	140.0	0.01	0.07	11.9
K919873		1.95	29.4	1590	35.1	26.8	<0.001	0.03	6.95	4.0	1.4	1.0	235	<0.01	0.13	17.2
K919874		1.64	36.6	2060	41.2	17.5	0.002	0.03	10.05	3.7	1.1	0.8	164.5	<0.01	0.08	14.0
K919875		0.82	77.1	2290	86.7	25.5	0.001	0.12	81.3	4.6	3.9	0.9	95.8	<0.01	0.73	13.4
K919876		0.63	32.5	1550	13.7	13.5	0.003	0.07	2.34	4.8	3.0	0.5	121.0	<0.01	0.06	5.0
K919877		0.69	33.3	2140	11.7	12.5	0.006	0.05	1.69	3.2	2.8	0.4	67.0	<0.01	0.03	4.8
K919878		0.58	37.2	1840	17.5	10.6	0.006	0.07	3.18	5.0	1.6	0.4	73.3	<0.01	0.06	7.7
K919879		1.61	43.3	2030	33.1	19.4	0.006	0.05	9.70	3.7	1.6	0.7	141.0	<0.01	0.08	11.8
K919880		0.62	67.6	1940	13.1	18.4	0.009	0.07	3.25	3.5	2.3	0.4	101.5	<0.01	0.04	7.2
K919881		0.67	71.1	1890	13.4	20.7	0.011	0.07	3.48	3.9	2.3	0.4	105.5	<0.01	0.05	7.6
K919882		0.05	40.1	1340	15.0	5.3	0.003	1.96	5.31	3.9	2.8	<0.2	14.5	<0.01	0.07	3.4
K919883		1.04	170.5	2120	23.0	34.4	0.004	0.27	7.54	6.2	5.3	0.7	43.5	0.01	0.07	14.4
K919884		0.84	28.2	2250	18.3	17.7	0.005	0.07	2.90	2.9	2.0	0.4	37.9	<0.01	0.07	6.9
K919885		0.48	154.5	2170	20.6	15.1	0.006	0.07	5.84	4.2	4.2	0.4	55.7	0.01	0.11	6.2
K919886		0.29	80.6	2720	21.3	10.4	0.011	0.50	3.50	3.7	3.5	0.3	96.8	<0.01	0.09	5.7
K919887		0.62	216	1830	18.7	17.9	0.005	0.15	4.11	4.5	3.7	0.4	41.9	0.01	0.08	8.2
K919901		0.16	35.7	3460	15.9	7.6	0.004	0.14	2.06	5.4	2.7	0.3	56.2	0.01	0.07	4.8
K919902		0.24	46.1	2330	14.9	9.4	0.006	0.25	3.73	5.0	4.2	0.3	79.7	<0.01	0.06	4.6
K919903		0.19	64.6	3780	22.7	9.9	0.008	0.13	3.20	3.3	4.6	0.3	111.0	<0.01	0.12	2.1
K919904		0.22	57.3	2980	17.9	9.4	0.005	0.06	3.79	3.1	2.4	0.3	67.7	<0.01	0.09	2.7
K919905		0.31	40.8	2970	15.1	8.8	0.007	0.10	2.61	3.9	2.3	0.3	70.0	<0.01	0.08	4.5
K919906		0.14	105.5	1930	12.4	5.4	0.009	0.09	1.75	4.4	2.8	0.2	50.7	<0.01	0.12	2.3
K919907		0.23	43.2	2870	13.9	8.1	0.008	0.11	2.33	3.8	2.6	0.3	64.9	<0.01	0.07	4.0
K919908		0.26	49.2	2690	13.7	8.5	0.007	0.08	2.39	3.8	2.3	0.3	67.8	<0.01	0.06	3.7
K919909		0.39	42.8	1640	16.9	7.3	0.008	0.17	1.65	4.9	2.1	0.3	55.1	<0.01	0.10	4.6



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-OG44
		Ti	Ti	U	V	W	Y	Zn	Zr	Au
		% 0.005	ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5	ppm 0.01
K919857		<0.005	0.17	2.50	43	0.11	16.60	232	4.0	
K919858		0.005	0.16	1.72	42	0.57	15.55	205	3.4	
K919859		<0.005	0.11	1.51	37	0.08	14.60	170	2.7	
K919860		<0.005	0.18	2.54	58	0.16	18.35	258	4.5	
K919861		<0.005	0.30	4.32	89	0.06	18.35	567	2.9	
K919862		<0.005	0.65	4.07	114	0.08	20.2	535	1.1	
K919863		<0.005	0.37	6.23	80	0.08	31.1	851	3.6	
K919864		<0.005	0.26	2.77	66	0.06	14.30	493	1.5	
K919865		0.107	0.05	0.30	45	10.60	6.72	33	8.5	
K919866		<0.005	0.44	2.03	51	0.05	6.83	488	5.2	
K919867		<0.005	0.19	0.94	16	<0.05	5.66	102	4.5	
K919868		<0.005	2.08	11.70	510	0.31	35.0	1320	9.8	
K919869		<0.005	0.25	2.31	38	0.06	17.75	180	8.5	
K919870		0.005	0.22	3.20	61	3.13	20.2	412	7.6	
K919871		0.025	0.27	3.82	87	0.45	17.95	258	5.1	
K919872		0.074	0.29	3.12	80	2.38	11.40	120	2.7	
K919873		0.085	0.34	6.22	72	0.59	10.50	89	1.7	
K919874		0.066	0.27	4.62	73	2.54	10.60	132	1.7	
K919875		0.062	0.41	7.52	103	1.28	14.40	200	5.0	0.08
K919876		0.017	0.20	1.53	64	0.87	15.95	160	4.0	
K919877		0.018	0.17	1.54	54	0.26	11.55	174	2.6	
K919878		0.028	0.22	1.80	53	0.24	14.60	159	5.3	
K919879		0.060	0.32	3.35	71	0.67	12.70	173	2.6	
K919880		0.026	0.33	5.05	104	0.82	17.55	357	4.8	
K919881		0.026	0.32	4.63	104	1.39	17.70	348	5.3	
K919882		<0.005	0.62	3.91	75	0.16	21.0	229	4.5	
K919883		0.055	0.78	19.25	104	15.35	60.4	1280	3.6	
K919884		0.024	0.32	2.49	41	1.29	11.50	139	2.7	
K919885		0.016	0.76	6.30	117	1.50	52.7	941	3.3	
K919886		0.008	0.45	4.30	79	0.14	16.95	649	3.8	
K919887		0.028	0.79	8.34	68	4.41	85.4	1360	4.4	
K919901		<0.005	0.15	1.97	35	0.07	19.50	170	5.6	
K919902		0.005	0.25	2.12	53	0.09	16.80	243	3.1	
K919903		<0.005	0.29	3.64	79	0.12	22.8	296	2.2	
K919904		0.005	0.21	3.08	45	0.47	17.75	250	1.0	
K919905		0.005	0.16	2.04	44	1.87	17.55	215	2.1	
K919906		<0.005	0.18	2.89	54	<0.05	19.45	273	0.6	
K919907		<0.005	0.17	2.12	44	0.29	17.70	199	2.2	
K919908		<0.005	0.19	2.07	45	0.08	17.50	220	2.1	
K919909		<0.005	0.10	1.24	31	0.05	14.40	193	2.6	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST44 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
K919910		5.90	0.0007	0.88	0.45	31.2	<0.2	<10	270	0.79	0.20	1.29	3.98	19.20	12.9	7
K919911		6.96	0.0012	0.30	1.01	24.3	<0.2	<10	920	0.80	0.56	0.98	1.76	54.4	7.5	23
K919912		6.58	0.0008	0.14	0.56	189.5	<0.2	<10	90	1.08	0.45	1.83	0.41	20.0	25.1	14
K919913		5.88	0.0009	0.90	0.65	22.0	<0.2	<10	240	0.62	0.27	2.31	4.46	28.4	17.3	12
K919914		8.64	0.0017	0.61	1.08	19.1	<0.2	<10	360	0.70	0.20	2.42	1.95	38.8	13.3	18
K919915		<0.02	0.0016	0.60	1.08	19.9	<0.2	<10	380	0.74	0.21	2.40	1.96	40.3	14.0	18
K919916		5.66	0.0042	0.72	0.64	17.9	<0.2	<10	390	0.56	0.20	0.67	2.09	34.7	10.4	14
K919917		5.84	0.0021	0.53	0.52	26.1	<0.2	<10	240	0.62	0.24	2.54	1.47	37.8	13.9	11
K919918		6.14	0.0017	0.27	0.89	22.4	<0.2	<10	140	1.09	0.58	0.87	0.72	30.5	22.2	16
K919919		6.08	0.0038	0.38	0.64	20.8	<0.2	<10	290	0.79	0.51	2.46	1.36	37.3	15.6	13
K919920		5.32	0.0014	0.14	0.71	29.8	<0.2	<10	230	1.23	0.62	1.16	0.42	29.4	23.8	14
K919921		7.70	0.0033	0.03	0.38	11.1	<0.2	<10	30	0.21	4.41	0.31	0.11	225	2.0	6
K919922		8.22	0.0040	0.03	0.38	9.2	<0.2	<10	20	0.25	0.95	0.24	0.08	201	2.2	5
K919923		8.02	0.0064	0.03	0.44	12.0	<0.2	<10	40	0.34	0.61	0.23	0.15	110.5	4.2	6
K919924		6.56	0.0040	0.05	0.39	37.3	<0.2	<10	30	0.25	3.57	0.38	0.03	227	1.8	5
K919925		6.60	0.0013	0.03	0.46	19.6	<0.2	<10	40	0.15	1.33	0.25	0.02	105.5	1.7	7
K919926		5.64	0.0018	0.34	2.65	115.5	<0.2	<10	180	2.63	1.94	0.68	2.31	69.4	43.9	32
K919927		5.46	0.0087	0.14	1.90	113.5	<0.2	<10	170	1.05	1.92	0.64	0.49	115.0	13.0	26
K919928		6.52	0.0042	0.18	1.25	69.8	<0.2	<10	150	0.85	0.91	0.54	0.79	99.0	11.0	18
K919929		5.08	0.0042	0.45	2.64	42.4	<0.2	<10	340	1.85	0.36	0.96	2.18	47.3	18.3	44
K919930		0.12	0.0601	0.12	1.27	48.1	0.2	<10	110	0.30	0.10	1.37	0.36	11.80	7.0	28
K919931		5.34	0.0057	0.63	3.31	465	<0.2	<10	420	4.13	8.12	0.87	4.38	49.8	71.0	44
K919932		7.12	0.0011	0.47	3.21	49.5	<0.2	<10	1050	1.95	0.50	1.58	3.14	37.5	23.1	59
K919933		6.00	0.0020	0.52	2.39	266	<0.2	<10	460	1.48	1.21	1.24	2.73	37.6	11.0	39
K919934		6.88	0.0310	0.72	1.44	647	<0.2	<10	130	1.08	15.45	0.55	2.14	95.1	13.2	45
K919935		7.36	0.0004	0.35	1.29	20.5	<0.2	<10	1020	0.98	0.18	4.06	5.61	38.0	8.4	45
K919936		5.08	0.0001	0.51	0.69	9.0	<0.2	<10	1420	0.69	0.16	5.09	2.23	37.2	11.6	17
K919937		5.42	0.0011	0.62	0.89	29.4	<0.2	<10	1240	0.84	0.24	1.19	11.55	48.4	10.8	29
K919938		6.04	0.0007	0.71	0.81	14.4	<0.2	<10	910	1.07	0.26	1.24	1.79	44.6	8.8	20
K919939		6.72	0.0019	0.29	0.88	10.3	<0.2	<10	860	0.77	0.21	0.71	1.21	43.1	7.5	14
K919940		4.62	0.0023	0.13	0.85	3.5	<0.2	<10	780	0.50	0.12	0.67	1.17	37.6	4.5	17
K919941		4.88	0.0014	0.36	1.05	18.3	<0.2	<10	1020	1.04	0.33	0.65	2.48	45.5	9.6	23
K919942		4.76	0.0009	0.38	0.41	27.9	<0.2	<10	400	0.78	0.13	5.11	13.05	18.70	6.0	23
K919943		5.94	0.0005	0.06	1.76	137.0	<0.2	<10	60	0.94	0.54	0.06	0.12	92.3	28.1	27
K919944		6.46	>0.1000	0.07	1.61	204	<0.2	<10	60	1.61	0.88	0.12	0.28	75.4	38.9	21
L919945		0.16	>0.1000	0.16	0.19	492	0.2	<10	1690	0.20	0.17	1.11	0.38	2.77	2.9	23
K919946		5.12	0.0164	0.15	1.82	284	<0.2	<10	100	3.05	3.01	0.27	1.28	57.0	45.1	19
K919947		7.80	0.0384	0.07	1.85	138.0	<0.2	<10	30	1.14	0.51	0.07	0.10	100.0	40.1	23
K919948		6.08	>0.1000	0.07	1.94	146.5	<0.2	<10	70	1.38	0.83	0.15	0.21	80.3	63.5	25
K919949		6.58	0.0017	0.05	2.37	61.5	<0.2	<10	60	1.25	0.63	0.13	0.08	91.9	190.0	34



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.02	ppm 0.01	ppm 0.005	% 0.01	ppm 0.2	ppm 0.1	% 0.01	ppm 5	ppm 0.05	% 0.01
K919910		1.95	130.5	3.42	1.30	0.15	0.17	0.15	0.044	0.10	8.6	3.8	0.37	190	13.60	0.01
K919911		3.24	37.1	2.16	3.73	0.17	0.08	0.07	0.024	0.15	28.7	19.6	0.55	233	5.30	0.02
K919912		2.34	49.3	5.31	1.91	0.15	0.10	0.06	0.043	0.06	7.9	10.6	0.31	513	2.74	0.01
K919913		2.40	135.5	4.46	2.21	0.16	0.16	0.18	0.044	0.13	12.9	13.7	0.67	328	9.27	0.01
K919914		1.60	102.0	3.83	3.72	0.16	0.15	0.19	0.036	0.13	19.8	25.3	1.41	220	8.90	0.01
K919915		1.66	107.0	3.84	4.09	0.17	0.14	0.19	0.038	0.13	20.0	26.5	1.40	222	9.09	0.01
K919916		1.70	113.5	3.22	2.47	0.14	0.05	0.23	0.033	0.10	18.2	9.4	0.34	237	8.39	<0.01
K919917		1.07	86.9	3.93	2.05	0.17	0.07	0.20	0.035	0.10	18.1	6.7	0.58	358	8.24	0.01
K919918		6.11	56.8	4.59	3.24	0.14	0.06	0.09	0.036	0.07	13.8	16.7	0.43	691	3.42	0.01
K919919		4.87	56.9	3.79	2.55	0.14	0.04	0.10	0.037	0.08	17.5	10.3	0.35	361	4.08	0.01
K919920		3.08	58.9	5.40	2.54	0.16	0.07	0.04	0.051	0.06	12.4	9.0	0.41	624	2.26	0.01
K919921		2.20	14.7	0.61	3.02	0.30	0.05	0.01	0.007	0.11	125.0	10.5	0.15	99	0.65	0.02
K919922		2.04	10.5	0.57	2.34	0.22	0.03	0.02	0.011	0.09	106.5	9.4	0.13	98	0.48	0.03
K919923		2.19	18.3	0.89	2.06	0.17	0.05	0.02	0.007	0.10	59.6	10.7	0.17	167	0.83	0.03
K919924		1.87	7.9	0.55	2.56	0.26	0.05	0.02	0.007	0.11	117.5	9.0	0.14	86	0.54	0.03
K919925		2.60	13.1	8.59	2.45	0.19	0.06	0.01	0.011	0.14	63.8	9.8	0.19	87	1.75	0.03
K919926		12.05	73.2	6.75	7.56	0.18	0.08	0.02	0.039	0.41	40.2	44.1	1.09	1900	7.00	0.04
K919927		10.60	25.3	3.19	7.28	0.21	0.04	0.04	0.032	0.47	61.0	39.0	0.76	664	3.02	0.05
K919928		5.44	37.0	2.89	5.26	0.18	0.03	0.03	0.033	0.23	55.9	24.9	0.45	343	4.32	0.03
K919929		6.21	70.8	3.94	7.96	0.21	0.09	0.02	0.042	0.49	25.9	37.2	1.56	532	5.77	0.03
K919930		0.46	47.5	3.02	4.26	0.13	0.36	0.37	0.029	0.10	5.8	8.4	0.61	417	9.69	0.09
K919931		7.98	177.0	7.42	8.45	0.24	0.14	0.03	0.071	0.25	26.5	41.3	0.92	848	8.94	0.06
K919932		7.34	86.3	4.32	9.97	0.19	0.11	0.01	0.052	0.53	20.2	45.4	2.04	394	8.43	0.12
K919933		5.99	64.0	3.25	8.05	0.19	0.09	0.02	0.044	0.20	22.5	39.2	1.09	380	3.77	0.07
K919934		8.22	89.5	2.83	5.81	0.20	0.06	0.02	0.089	0.29	48.7	25.6	0.76	466	0.98	0.04
K919935		3.42	49.8	2.24	4.35	0.08	0.14	0.05	0.030	0.23	22.3	28.0	2.11	239	30.5	0.04
K919936		2.10	41.6	2.89	2.06	0.08	0.15	0.08	0.030	0.20	21.5	10.6	2.76	1420	8.72	0.05
K919937		1.56	69.4	3.22	2.66	0.11	0.05	0.19	0.037	0.16	29.7	13.5	0.49	208	21.2	0.03
K919938		2.42	84.3	2.75	2.33	0.11	0.05	0.16	0.048	0.22	29.2	7.0	0.15	141	8.11	0.03
K919939		1.58	31.5	2.98	2.57	0.13	0.06	0.07	0.031	0.13	24.7	17.9	0.31	210	3.77	0.01
K919940		1.75	9.8	1.20	2.54	0.13	0.07	0.05	0.014	0.12	19.8	21.6	0.40	119	0.66	0.02
K919941		2.66	48.3	4.32	3.37	0.16	0.14	0.07	0.036	0.20	27.0	19.0	0.45	399	8.77	0.02
K919942		7.74	64.7	1.60	1.68	0.07	0.13	0.37	0.021	0.10	9.9	6.6	2.61	337	42.6	0.03
K919943		6.01	39.5	4.68	5.95	0.19	<0.02	0.02	0.030	0.12	49.5	43.7	0.51	864	0.79	0.02
K919944		4.51	31.6	4.06	5.32	0.17	0.02	0.02	0.026	0.09	36.8	45.1	0.49	1310	0.89	0.02
L919945		0.43	64.8	4.14	0.84	0.09	0.46	3.12	0.010	0.07	1.9	2.5	0.03	121	17.85	0.02
K919946		8.47	42.2	2.92	6.83	0.14	0.03	0.04	0.045	0.25	29.4	53.0	0.56	3080	2.07	0.03
K919947		3.75	41.6	4.49	5.90	0.20	0.04	0.02	0.028	0.05	49.4	51.8	0.64	1130	0.65	0.02
K919948		5.50	38.9	4.17	6.42	0.16	0.04	0.02	0.028	0.13	41.8	55.6	0.58	1350	0.95	0.02
K919949		7.42	80.0	4.54	7.80	0.20	0.03	0.02	0.028	0.15	45.8	67.1	0.65	2160	2.14	0.02



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
K919910		0.07	48.9	2350	16.5	6.8	0.016	0.19	6.05	6.1	5.2	0.3	69.1	<0.01	0.09
K919911		0.85	46.0	2670	14.0	20.5	0.005	0.07	2.74	3.2	1.6	0.5	86.0	<0.01	0.09
K919912		0.06	42.5	760	33.9	4.8	0.002	0.05	3.47	7.0	0.7	0.3	73.4	<0.01	0.04
K919913		0.10	60.0	3420	20.7	8.2	0.009	0.50	3.07	5.8	4.6	0.3	145.5	<0.01	0.08
K919914		0.12	43.7	3400	16.6	8.3	0.008	0.21	2.88	5.2	4.2	0.3	125.0	<0.01	0.06
K919915		0.13	45.5	3330	15.9	9.2	0.007	0.20	2.96	5.7	4.3	0.3	127.5	<0.01	0.06
K919916		0.14	45.3	2450	14.2	7.9	0.006	0.07	2.62	5.4	2.5	0.2	85.7	<0.01	0.06
K919917		0.14	42.4	2700	18.2	7.3	0.007	0.13	2.60	5.8	4.5	0.3	108.0	<0.01	0.08
K919918		0.26	39.4	880	30.7	8.6	0.001	0.08	1.86	6.5	1.2	0.4	45.3	<0.01	0.06
K919919		0.47	36.7	1300	21.7	10.7	0.003	0.06	2.20	5.5	1.1	0.4	80.5	<0.01	0.05
K919920		0.13	36.6	780	34.9	6.2	0.003	0.05	2.02	7.7	0.9	0.3	46.8	<0.01	0.06
K919921		0.72	2.3	680	5.3	14.6	<0.001	0.01	0.44	1.2	0.2	0.5	16.6	<0.01	0.02
K919922		0.56	2.1	420	4.2	11.6	0.001	0.02	0.29	1.0	<0.2	0.4	17.5	<0.01	<0.01
K919923		0.65	5.6	440	5.0	12.4	<0.001	0.02	0.49	1.2	0.2	0.4	20.5	<0.01	0.01
K919924		0.55	1.7	870	3.7	12.6	0.001	0.03	0.37	0.9	0.5	0.6	20.6	<0.01	0.01
K919925		0.97	2.4	640	3.0	15.8	<0.001	0.73	0.64	1.1	0.2	0.6	14.7	<0.01	<0.01
K919926		1.74	108.5	1590	26.3	51.5	0.002	0.11	4.05	4.5	2.5	1.0	45.8	<0.01	0.05
K919927		2.88	15.9	960	19.9	63.5	<0.001	0.04	2.77	4.3	1.1	1.7	54.6	<0.01	0.02
K919928		1.52	24.0	1340	14.7	31.3	0.002	0.03	3.44	3.4	1.4	0.9	43.2	<0.01	<0.01
K919929		0.74	55.8	2550	22.8	49.9	0.001	0.17	4.20	4.6	2.2	0.7	73.5	<0.01	0.05
K919930		0.19	31.3	730	3.2	4.6	0.005	0.13	0.98	4.6	1.0	1.6	39.8	<0.01	0.04
K919931		0.87	169.0	2400	70.8	32.2	0.002	0.23	8.95	4.1	5.9	0.7	104.0	<0.01	0.14
K919932		0.99	97.5	2980	22.4	54.7	0.003	0.14	3.88	6.2	2.5	0.8	116.0	0.01	0.06
K919933		1.22	41.3	2620	45.1	28.1	0.003	0.07	3.55	3.9	2.0	0.6	76.3	<0.01	0.03
K919934		1.56	25.2	1040	272	41.9	<0.001	0.04	21.7	4.6	0.8	1.2	42.6	<0.01	0.14
K919935		0.54	105.5	1900	16.0	27.1	0.011	0.10	4.93	4.6	2.7	0.6	149.0	0.01	0.06
K919936		0.15	80.9	890	9.4	14.7	0.016	0.21	2.65	5.6	2.7	0.3	214	0.01	0.05
K919937		0.19	148.5	2750	16.9	14.9	0.010	0.08	9.31	4.4	4.7	0.5	117.5	0.01	0.11
K919938		0.12	78.1	5790	21.4	14.2	0.010	0.16	2.43	4.9	4.6	0.4	131.5	0.01	0.15
K919939		0.20	38.0	2300	12.4	15.8	0.006	0.06	1.60	2.6	1.8	0.3	56.3	<0.01	0.02
K919940		0.29	18.5	1840	7.0	14.4	0.003	0.09	0.36	1.7	2.5	0.3	43.8	<0.01	<0.01
K919941		0.35	51.3	2180	12.9	22.0	0.005	0.08	2.10	3.5	2.5	0.4	59.5	<0.01	0.05
K919942		0.22	101.0	1340	14.2	13.2	0.029	0.14	8.77	3.8	3.5	0.5	145.5	0.01	0.07
K919943		0.63	36.4	480	29.3	17.9	0.001	0.03	1.35	2.7	0.6	0.4	6.9	<0.01	0.02
K919944		1.03	76.2	360	23.5	13.9	0.001	0.04	0.94	2.8	0.6	0.6	10.3	<0.01	<0.01
L919945		0.10	17.2	60	17.9	3.4	<0.001	0.17	30.9	0.7	1.5	2.9	33.4	<0.01	0.10
K919946		1.74	51.4	480	62.2	37.7	<0.001	0.04	3.37	4.6	0.8	1.4	32.6	<0.01	0.03
K919947		0.28	39.6	400	41.5	7.1	<0.001	0.02	0.92	2.5	0.6	0.2	5.5	<0.01	0.01
K919948		1.01	63.4	470	23.4	19.3	<0.001	0.03	1.09	3.2	0.6	0.5	19.6	<0.01	0.03
K919949		0.78	58.5	580	21.8	24.4	<0.001	0.03	0.83	3.4	0.4	0.4	31.4	<0.01	<0.01



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CERTIFICATE OF ANALYSIS WH11164932

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm	Au-OG44 Au ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
K919910		<0.005	0.21	3.26	29	<0.05	13.95	468	10.8	
K919911		0.031	0.28	6.15	88	4.21	17.55	238	3.7	
K919912		<0.005	0.07	0.97	13	0.16	9.18	161	5.8	
K919913		<0.005	0.19	3.36	34	0.16	18.50	355	10.3	
K919914		<0.005	0.25	3.15	54	0.47	18.50	251	8.3	
K919915		<0.005	0.21	3.11	54	<0.05	18.30	248	8.7	
K919916		<0.005	0.21	2.50	53	0.06	16.70	221	2.4	
K919917		<0.005	0.16	2.20	36	<0.05	16.20	204	4.4	
K919918		0.006	0.12	1.22	24	0.42	8.57	162	2.9	
K919919		0.010	0.16	1.23	27	1.31	11.30	190	2.0	
K919920		<0.005	0.07	1.18	17	<0.05	7.39	155	3.9	
K919921		0.043	0.13	18.20	12	41.8	9.04	9	1.1	
K919922		0.035	0.12	6.39	11	8.22	6.49	13	0.6	
K919923		0.036	0.12	3.49	13	0.50	5.62	30	1.7	
K919924		0.041	0.11	34.7	12	31.9	10.45	7	1.2	
K919925		0.054	0.18	1.94	21	21.6	6.18	13	1.8	
K919926		0.097	0.73	11.05	86	1.79	17.50	357	3.2	
K919927		0.167	0.69	30.9	71	5.92	12.15	83	1.6	
K919928		0.071	0.33	17.10	51	6.76	11.50	123	1.7	
K919929		0.066	0.53	3.46	111	1.45	16.10	271	5.7	
K919930		0.117	0.62	0.54	52	0.76	8.64	54	8.6	
K919931		0.070	0.34	7.80	112	0.93	33.7	688	7.2	
K919932		0.102	0.50	4.92	253	0.41	21.8	409	7.6	
K919933		0.070	0.33	4.31	129	0.53	17.00	226	4.0	
K919934		0.152	0.46	6.86	59	0.71	8.70	223	2.7	
K919935		0.034	0.87	8.05	246	0.23	25.6	540	9.9	
K919936		0.006	0.19	3.11	71	0.06	17.50	282	9.2	
K919937		0.005	1.02	6.98	289	0.17	24.4	1500	1.4	
K919938		<0.005	0.23	4.28	84	0.07	30.2	283	1.7	
K919939		0.005	0.19	2.06	52	0.09	13.45	205	2.2	
K919940		0.010	0.13	1.56	48	1.55	10.50	114	3.0	
K919941		0.014	0.36	8.42	98	1.03	17.90	242	7.2	
K919942		0.006	0.79	12.40	420	0.77	32.1	605	9.4	
K919943		0.030	0.15	1.92	27	1.78	7.44	118	0.5	
K919944		0.040	0.13	3.70	24	8.08	6.89	196	1.2	0.51
L919945		0.012	11.40	1.14	11	3.43	2.37	18	13.1	0.23
K919946		0.101	0.46	15.40	30	14.00	9.44	144	1.0	
K919947		0.016	0.08	1.56	20	0.97	6.36	117	1.5	
K919948		0.044	0.18	3.58	26	6.76	7.28	182	1.1	0.10
K919949		0.034	0.22	4.38	26	2.11	8.15	187	1.5	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST44 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
K919950		5.66	0.0111	0.08	1.82	138.0	<0.2	<10	40	0.93	0.45	0.05	0.04	79.4	31.4	27
K919951		6.26	0.0408	0.61	0.84	16.2	<0.2	<10	1340	0.88	0.29	1.35	4.19	29.0	9.3	25
K919952		6.20	0.0040	0.91	0.87	32.3	<0.2	<10	420	1.01	0.28	0.80	6.35	50.1	32.2	16
K919953		7.32	0.0031	0.93	0.74	30.4	<0.2	<10	370	1.70	0.28	1.23	7.18	47.5	22.6	15
K919954		6.88	0.0033	0.85	1.26	13.3	<0.2	<10	1210	1.22	0.31	0.51	5.22	57.9	23.6	27
K919955		6.50	0.0031	0.67	3.69	21.0	<0.2	<10	1050	2.92	0.24	0.81	19.35	60.0	253	27
K919956		7.40	0.0044	0.41	0.74	17.9	<0.2	<10	840	0.92	0.21	2.01	10.20	47.4	14.6	16
K919957		6.24	0.0032	0.54	1.16	16.7	<0.2	<10	620	0.72	0.38	0.70	1.56	47.7	10.7	18
K735401		6.12	0.0037	0.59	0.49	19.3	<0.2	<10	820	0.69	0.22	2.67	6.92	45.1	13.6	15



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
K919950		3.30	23.1	4.38	5.95	0.16	0.03	0.02	0.020	0.07	39.2	52.1	0.54	758	0.85	0.02
K919951		2.34	55.4	2.54	2.81	0.07	0.05	0.30	0.031	0.16	16.3	9.6	0.51	344	16.10	0.03
K919952		3.27	108.5	4.67	2.35	0.16	0.03	0.13	0.043	0.12	27.9	15.2	0.31	791	12.05	0.02
K919953		2.42	283	4.57	1.92	0.11	0.08	0.16	0.060	0.17	29.9	12.8	0.26	488	13.70	0.01
K919954		3.25	125.5	4.36	3.43	0.16	0.06	0.12	0.045	0.24	30.3	19.6	0.74	445	8.87	0.02
K919955		3.31	311	4.62	4.47	0.23	0.13	0.11	0.047	0.28	34.4	36.3	0.63	3150	8.94	0.02
K919956		1.60	73.6	3.23	2.22	0.09	0.05	0.14	0.036	0.13	26.7	13.2	0.73	581	14.05	0.01
K919957		2.77	66.1	3.98	3.72	0.14	0.06	0.11	0.034	0.12	24.9	26.6	0.44	1170	6.70	0.02
K735401		1.20	72.4	2.97	1.55	0.16	0.04	0.15	0.034	0.09	23.7	7.4	1.18	356	22.5	0.02



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
K919950		0.70	29.4	370	20.2	11.4	0.001	0.02	0.65	2.7	0.5	0.4	6.0	<0.01	<0.01
K919951		0.47	72.7	2260	14.4	16.8	0.008	0.07	5.62	4.3	3.3	0.6	145.0	0.01	0.08
K919952		0.11	136.5	2740	22.8	10.5	0.011	0.31	4.99	3.7	5.1	0.3	58.5	<0.01	0.05
K919953		0.22	160.5	4080	22.7	10.2	0.004	0.18	5.73	5.4	5.2	0.3	117.0	<0.01	0.14
K919954		0.22	132.0	1390	23.0	22.3	0.003	0.09	3.59	4.1	3.5	0.4	38.0	<0.01	0.08
K919955		0.39	662	4140	25.4	28.9	0.004	0.22	2.45	4.6	5.2	0.4	62.3	<0.01	0.09
K919956		0.17	103.5	2600	15.4	11.5	0.006	0.07	5.16	4.6	3.8	0.3	108.0	<0.01	0.09
K919957		0.70	38.0	2050	15.8	21.4	0.005	0.06	1.60	3.1	1.4	0.5	44.4	<0.01	0.03
K735401		0.10	128.5	1950	15.1	7.5	0.007	0.09	5.50	4.7	5.2	0.4	124.0	<0.01	0.10



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-OG44
		Ti	Ti	U	V	W	Y	Zn	Zr	Au
		% 0.005	ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5	ppm 0.01
K919950		0.029	0.11	1.57	22	2.50	5.01	94	1.3	
K919951		0.013	0.37	5.08	217	2.19	20.1	519	1.3	
K919952		<0.005	0.26	4.76	39	0.09	17.60	924	1.9	
K919953		0.005	0.25	4.93	56	0.16	29.1	699	5.3	
K919954		0.012	0.28	3.39	100	0.05	27.4	595	2.6	
K919955		0.030	0.54	8.32	69	0.16	136.5	4910	5.0	
K919956		<0.005	0.36	4.86	103	0.10	20.5	728	2.4	
K919957		0.024	0.21	2.35	45	4.08	11.25	207	1.7	
K735401		0.006	0.51	5.30	116	0.08	25.0	993	3.8	



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Method	CERTIFICATE COMMENTS
ME-MS41	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).



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Project: Selwyn

P.O. No.: GPD2011SELWYN005

This report is for 35 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29-AUG-2011.

The following have access to data associated with this certificate:

MIKE BURKE
LINDA LEWIS

ANDREW CALDWELL
MIKE MASLOWSKI

JACK COTE
BRUCE OTTO

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **GOLDEN PREDATOR CANADA CORP.**
ATTN: ANDREW CALDWELL
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	Au-GRA21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm
		0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
J971496		1.66	<0.005		0.8	0.51	<2	10	430	0.5	4	3.73	<0.5	5	6	29
J971497		2.81	<0.005		0.2	2.44	37	<10	170	0.7	4	0.92	<0.5	15	35	52
J971498		1.29	0.005		0.3	2.00	34	<10	300	0.8	3	1.10	<0.5	17	30	67
J971499		2.38	<0.005		0.3	1.30	57	<10	170	0.9	5	0.61	<0.5	27	14	85
J971500		2.39	0.007		1.1	1.98	43	<10	220	0.6	3	1.12	<0.5	3	26	41
J971501		1.17	<0.005		0.6	4.67	10	<10	250	1.0	<2	1.89	<0.5	7	55	81
J971502		1.53	0.006		1.4	0.54	75	<10	190	0.5	2	0.16	1.2	7	7	86
J971503		3.34	0.005		4.2	0.14	4	<10	120	<0.5	3	0.07	1.9	2	27	16
J971504		1.82	<0.005		0.6	0.10	14	<10	230	<0.5	3	0.03	<0.5	1	14	6
J971505		2.44	<0.005		<0.2	0.47	8	<10	2500	<0.5	4	0.16	<0.5	1	22	15
J971506		0.91	0.033		0.3	0.65	106	<10	80	<0.5	13	0.01	<0.5	2	15	49
J971507		2.51	<0.005		1.5	6.71	8	<10	70	1.2	29	7.9	<0.5	10	22	232
J971508		2.20	<0.005		<0.2	1.05	4	<10	140	0.8	7	0.02	<0.5	10	25	16
J971509		0.68	<0.005		1.6	2.66	5	<10	110	1.6	2	1.50	4.1	9	98	111
J971510		1.05	0.012		0.2	1.96	1400	<10	230	0.7	4	1.59	0.6	19	74	46
J971511		2.65	<0.005		0.5	0.14	34	<10	190	<0.5	2	0.42	0.8	1	9	26
J971512		0.18	0.010		<0.2	0.16	53	<10	10	<0.5	3	0.04	<0.5	2	4	49
J971513		1.35	<0.005		<0.2	0.19	8	60	30	<0.5	5	0.05	<0.5	2	5	9
J971514		1.86	<0.005		<0.2	0.53	24	10	70	0.5	4	0.06	<0.5	13	6	23
J971515		0.39	<0.005		<0.2	2.48	17	10	240	0.6	<2	0.06	<0.5	8	22	52
J971516		3.81	<0.005		<0.2	0.21	12	20	20	<0.5	3	0.04	<0.5	2	6	11
J971517		0.09	0.226		0.2	0.17	477	<10	1710	<0.5	3	1.07	<0.5	2	22	63
J971518		2.71	<0.005		1.1	0.13	15	<10	250	<0.5	3	0.01	<0.5	1	15	7
J971519		2.84	<0.005		0.5	0.06	3	<10	110	<0.5	3	0.01	<0.5	1	21	2
J971520		0.56	<0.005		1.1	0.04	28	<10	50	<0.5	4	>25.0	<0.5	3	2	3
J971521		4.32	<0.005		0.3	3.08	7	<10	160	1.3	<2	1.20	<0.5	14	50	43
J971522		0.88	>10.0	27.5	6.0	0.11	>10000	<10	10	<0.5	35	0.38	1.7	6	5	52
J971523		1.88	0.019		0.5	0.38	71	<10	120	0.8	3	0.09	<0.5	9	9	2420
J971524		1.95	0.193		0.2	1.02	199	<10	310	<0.5	<2	0.03	0.6	2	18	153
J971525		0.56	0.008		<0.2	1.17	14	<10	90	<0.5	<2	<0.01	<0.5	<1	2	59
J971526		2.13	0.021		0.4	0.35	12	<10	610	<0.5	3	<0.01	<0.5	2	6	9
J971527		2.88	<0.005		0.9	0.16	22	<10	650	<0.5	3	0.02	<0.5	1	17	21
J971528		0.11	<0.005		0.2	1.04	6	<10	80	<0.5	2	0.66	<0.5	8	31	21
J971529		2.47	0.016		0.9	1.98	66	<10	2390	<0.5	2	0.05	<0.5	2	28	81
J971530		2.91	0.009		<0.2	3.19	13	<10	610	0.7	<2	1.42	2.1	10	45	11



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Appendix 4

Analytical Methods and Detection Limits



Sample Preparation Package

PREP- 41

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

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

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

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
DRY-22	Low temperature drying of excessively wet samples where the oven temperature is not to exceed 60°C. This method is suitable for more soil and sediment samples that are analyzed for volatile elements.
SCR-41	Sample is dry-sieved to – 180 micron and both the plus and minus fractions are retained.

Revision 02.01
Feb 22, 2010

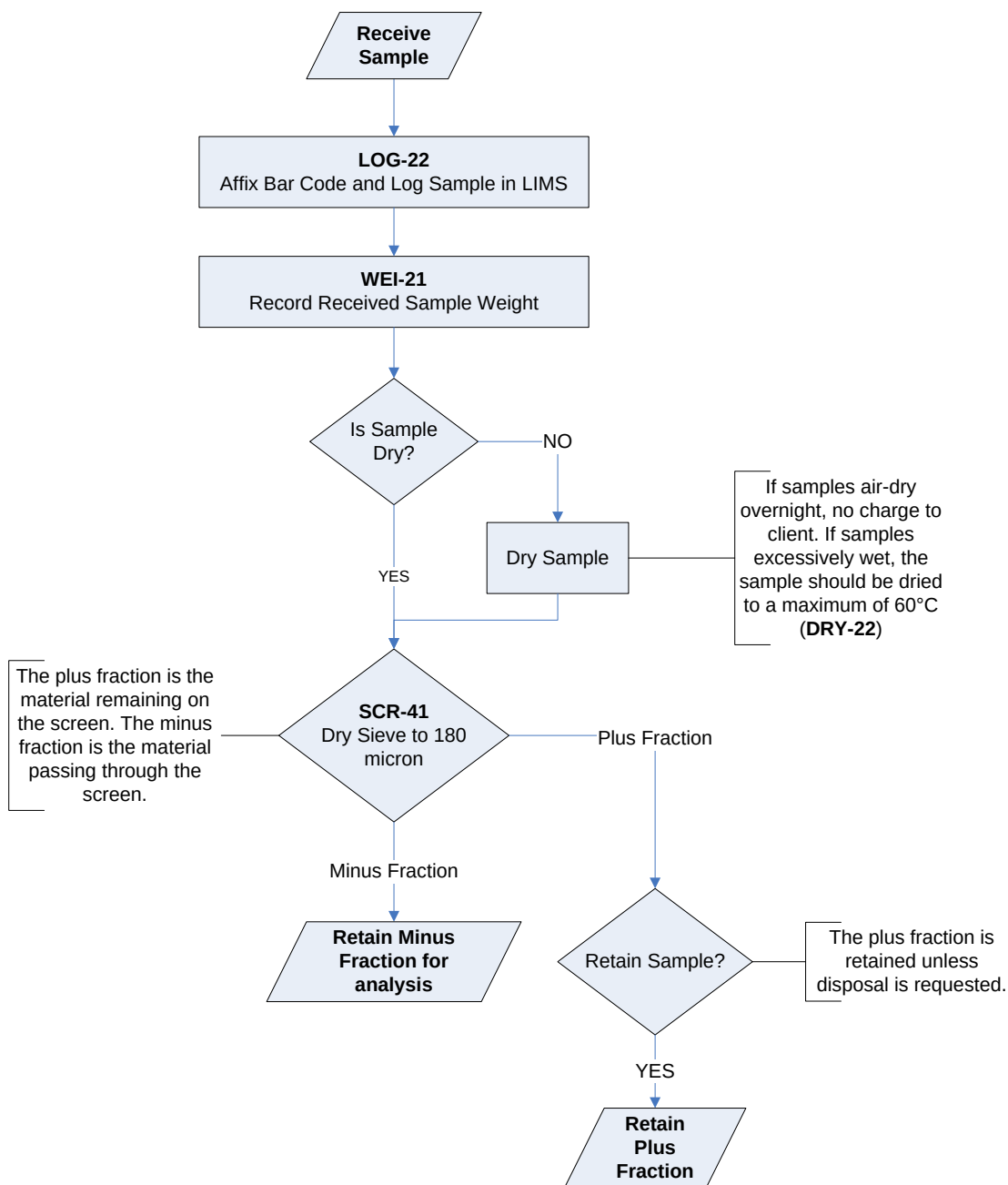
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Sample Preparation Package

Sample Preparation Flowchart Package -PREP- 41



Revision 02.01
Feb 22, 2010

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Geochemical Procedure

ME- MS41

Ultra- Trace Level Methods Using ICP- MS and ICP- AES

Sample Decomposition:

Aqua Regia Digestion (GEO-AR01)

Analytical Method:

Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.50 g) is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted to with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly. Samples are then analysed by ICP-MS for the remaining suite of elements. The analytical results are corrected for inter-element spectral interferences.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.01	100
Aluminum	Al	%	0.01	25
Arsenic	As	ppm	0.1	10 000
Gold	Au	ppm	0.2	25
Boron	B	ppm	10	10 000
Barium	Ba	ppm	10	10 000
Beryllium	Be	ppm	0.05	1 000
Bismuth	Bi	ppm	0.01	10 000
Calcium	Ca	%	0.01	25
Cadmium	Cd	ppm	0.01	1 000
Cerium	Ce	ppm	0.02	500
Cobalt	Co	ppm	0.1	10 000
Chromium	Cr	ppm	1	10 000

Revision 04.00
Sep 20, 2006

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Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10 000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10 000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.02	500
Mercury	Hg	ppm	0.01	10 000
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.2	10 000
Lithium	Li	ppm	0.1	10 000
Magnesium	Mg	%	0.01	25
Manganese	Mn	ppm	5	50 000
Molybdenum	Mo	ppm	0.05	10 000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.05	500
Nickel	Ni	ppm	0.2	10 000
Phosphorus	P	ppm	10	10 000
Lead	Pb	ppm	0.2	10 000
Rubidium	Rb	ppm	0.1	10 000
Rhenium	Re	ppm	0.001	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10 000
Scandium	Sc	ppm	0.1	10 000
Selenium	Se	ppm	0.2	1 000
Tin	Sn	ppm	0.2	500
Strontium	Sr	ppm	0.2	10 000

Revision 04.00
Sep 20, 2006

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Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
Tantalum	Ta	ppm	0.01	500
Tellurium	Te	ppm	0.01	500
Thorium	Th	ppm	0.2	10000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10 000
Uranium	U	ppm	0.05	10 000
Vanadium	V	ppm	1	10 000
Tungsten	W	ppm	0.05	10 000
Yttrium	Y	ppm	0.05	500
Zinc	Zn	ppm	2	10 000
Zirconium	Zr	ppm	0.5	500

NOTE: In the majority of geological matrices, data reported from an aqua regia leach should be considered as representing only the leachable portion of the particular analyte.



Geochemical Procedure

Au- OG43, Au- OG44

Determination of Gold by Aqua Regia Digestion / Solvent Extraction – Flame AAS or ICPMS finish

Sample Decomposition:

Aqua regia gold digestion (GEO-AuAR01/02)

Analytical Method:

Inductively coupled mass spectrometry (ICPMS) or Atomic absorption spectrometry (AAS)

A finely pulverised sample (25 – 50 g) is digested in a mixture of 3 parts hydrochloric acid and 1 part nitric acid (aqua regia). This acid mixture generates nascent chlorine and nitrosyl chloride, which will dissolve free gold and gold compounds such as calaverite (AuTe₂).

The dissolved gold is complexed and extracted into Aliquat 336/DIBK and determined by Flame AAS. Alternatively gold is determined by ICPMS directly from the digestion liquor. This method allows for the simple and economical addition of extra elements by running the digestion liquor through the ICPAES or ICPMS.

Note: Samples high in sulphide or carbon content may lead to low gold recoveries unless they are roasted prior to digestion.

Method	Element	Sample Mass	Units	Lower Limit	Upper Limit
Au-OG43	Gold	25 g	ppm	0.01	100
Au-OG44	Gold	50 g	ppm	0.01	100

Revision 01.01
Jun 2, 2005

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Geochemical Procedure

Au- TL43, Au- TL44

Determination of Trace Level Gold by Solvent Extraction – Graphite furnace AAS or ICPMS finish

Sample Decomposition:

Aqua regia gold digestion (GEO-AuAR01/02)

Analytical Method:

Inductively coupled mass spectrometry (ICPMS) or Atomic absorption spectrometry (AAS)

A finely pulverised sample (25 – 50 g) is digested in a mixture of 3 parts hydrochloric acid and 1 part nitric acid (aqua regia). This acid mixture generates nascent chlorine and nitrosyl chloride, which will dissolve free gold and gold compounds such as calaverite, AuTe₂.

The dissolved gold is complexed and extracted either with diisobutyl ketone (DIBK) or Kerosene/DBS and determined by graphite furnace AAS. Alternatively gold is determined by ICPMS directly from the digestion liquor. This method allows for the simple and economical addition of extra elements by running the digestion liquor through the ICPAES or ICPMS.

Note: Samples high in sulphide or carbon content may lead to low gold recoveries unless they are roasted prior to digestion.

Method	Element	Sample Mass	Units	Lower Limit	Upper Limit	Default Overlimit Method
Au-TL43m	Gold	25 g	ppm	0.005	2	Au-OG43
Au-TL44m	Gold	50 g	ppm	0.005	2	Au-OG44

Revision 01.00
Jun 13, 2007

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Sample Preparation Package

PREP- 31

Standard Sample Preparation: Dry, Crush, Split and Pulverize

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

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

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

Revision 02.03
Feb 22, 2010

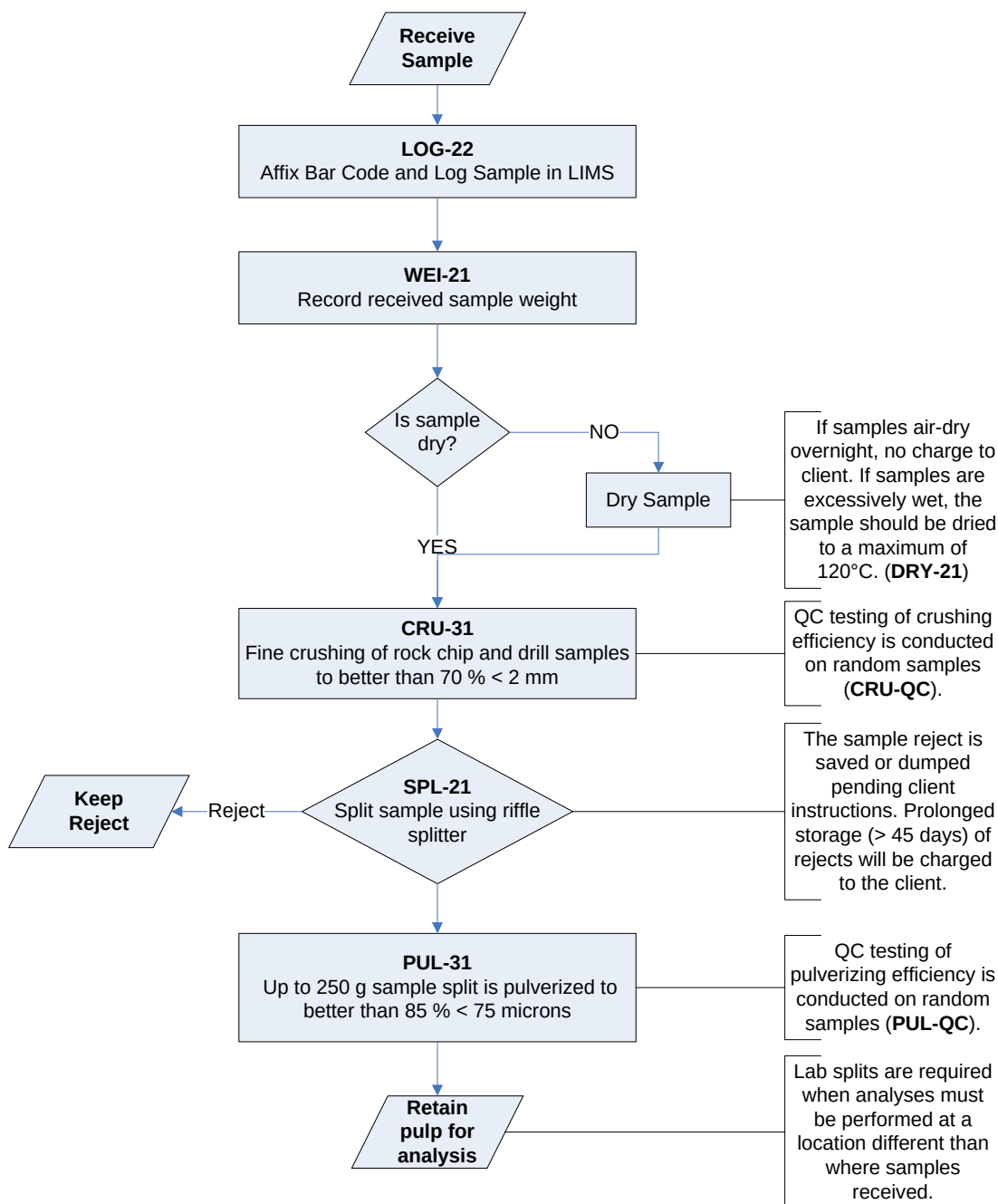
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Sample Preparation Package

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



Revision 02.03
Feb 22, 2010

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Geochemical Procedure

ME- ICP41

Trace Level Methods Using Conventional ICP- AES Analysis

Sample Decomposition:

Nitric Aqua Regia Digestion (GEO-AR01)

Analytical Method:

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

A prepared sample is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted to 12.5 mL with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. The analytical results are corrected for inter-element spectral interferences.

NOTE: In the majority of geological matrices, data reported from an aqua regia leach should be considered as representing only the leachable portion of the particular analyte.

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Silver	Ag	ppm	0.2	100	Ag-OG46
Aluminum	Al	%	0.01	25	
Arsenic	As	ppm	2	10000	
Boron	B	ppm	10	10000	
Barium	Ba	ppm	10	10000	
Beryllium	Be	ppm	0.5	1000	
Bismuth	Bi	ppm	2	10000	
Calcium	Ca	%	0.01	25	
Cadmium	Cd	ppm	0.5	1000	
Cobalt	Co	ppm	1	10000	
Chromium	Cr	ppm	1	10000	

Revision 06.02
Apr 20, 2009

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Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Copper	Cu	ppm	1	10000	Cu-OG46
Iron	Fe	%	0.01	50	
Gallium	Ga	ppm	10	10000	
Mercury	Hg	ppm	1	10000	
Potassium	K	%	0.01	10	
Lanthanum	La	ppm	10	10000	
Magnesium	Mg	%	0.01	25	
Manganese	Mn	ppm	5	50000	
Molybdenum	Mo	ppm	1	10000	
Sodium	Na	%	0.01	10	
Nickel	Ni	ppm	1	10000	
Phosphorus	P	ppm	10	10000	
Lead	Pb	ppm	2	10000	Pb-OG46
Sulfur	S	%	0.01	10	
Antimony	Sb	ppm	2	10000	
Scandium	Sc	ppm	1	10000	
Strontium	Sr	ppm	1	10000	
Thorium	Th	ppm	20	10000	
Titanium	Ti	%	0.01	10	
Thallium	Tl	ppm	10	10000	
Uranium	U	ppm	10	10000	
Vanadium	V	ppm	1	10000	
Tungsten	W	ppm	10	10000	
Zinc	Zn	ppm	2	10000	Zn-OG46

Revision 06.02
Apr 20, 2009

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Geochemical Procedure

Elements listed
below are available upon request

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Cerium	Ce	ppm	10	10000	
Hafnium	Hf	ppm	10	10000	
Indium	In	ppm	10	10000	
Lithium	Li	ppm	10	10000	
Niobium	Nb	ppm	10	10000	
Rubidium	Rb	ppm	10	10000	
Selenium	Se	ppm	10	10000	
Silicon	Si	ppm	10	10000	
Tin	Sn	ppm	10	10000	
Tantalum	Ta	ppm	10	10000	
Tellurium	Te	ppm	10	10000	
Yttrium	Y	ppm	10	10000	
Zirconium	Zr	ppm	5	10000	

Revision 06.02
Apr 20, 2009

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Fire Assay Procedure

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

Sample Decomposition:

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

Analytical Method:

Atomic Absorption Spectroscopy (AAS)

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

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

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

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Aug 17, 2005

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Fire Assay Procedure

Ag-GRA21, Ag-GRA22, Au-GRA21 and Au-GRA22 Precious Metals Gravimetric Analysis Methods

Sample Decomposition:

Fire Assay Fusion (FA-FUSAG1, FA-FUSAG2, FA-FUSGV1 and FA-FUSGV2)

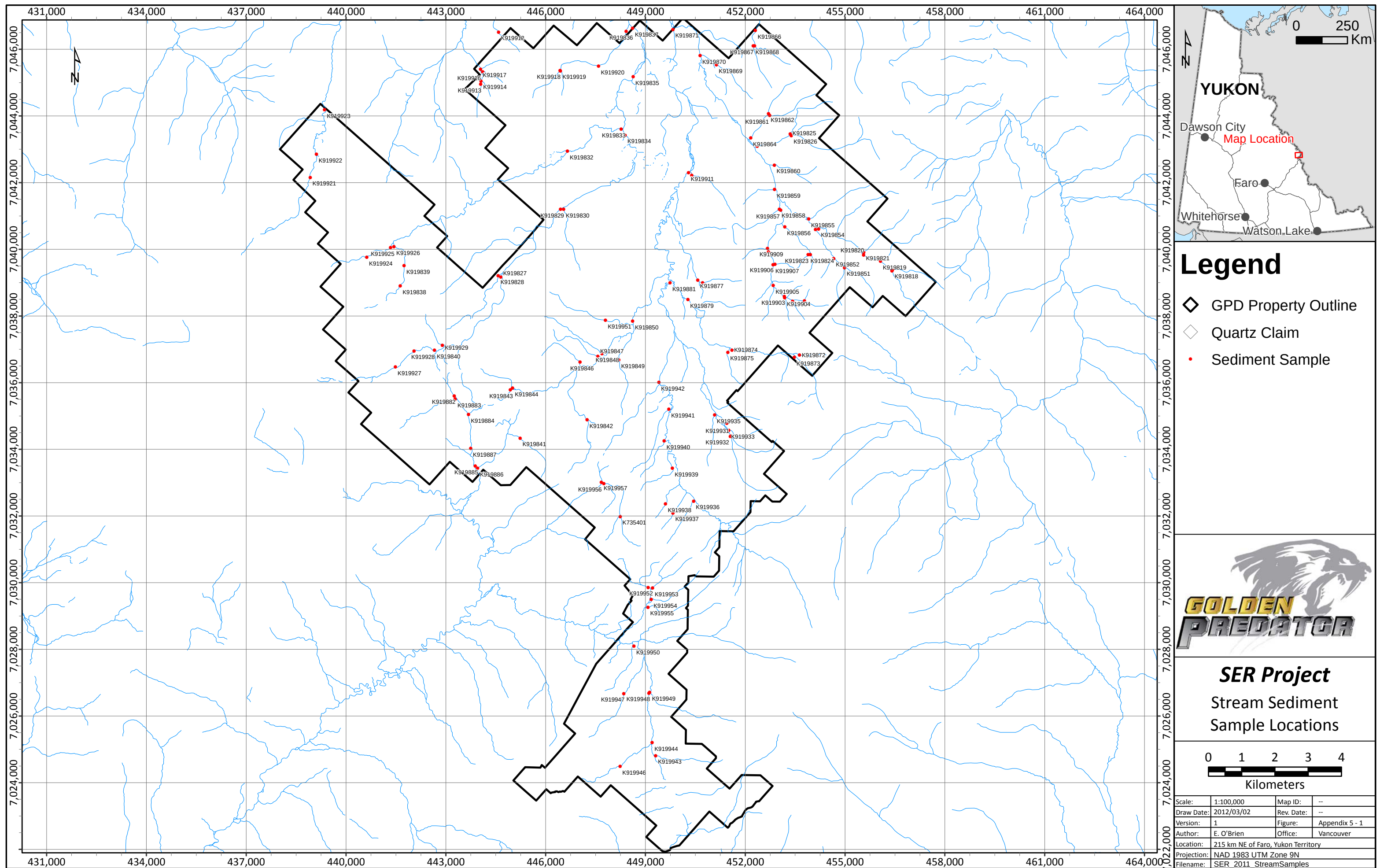
Analytical Method:

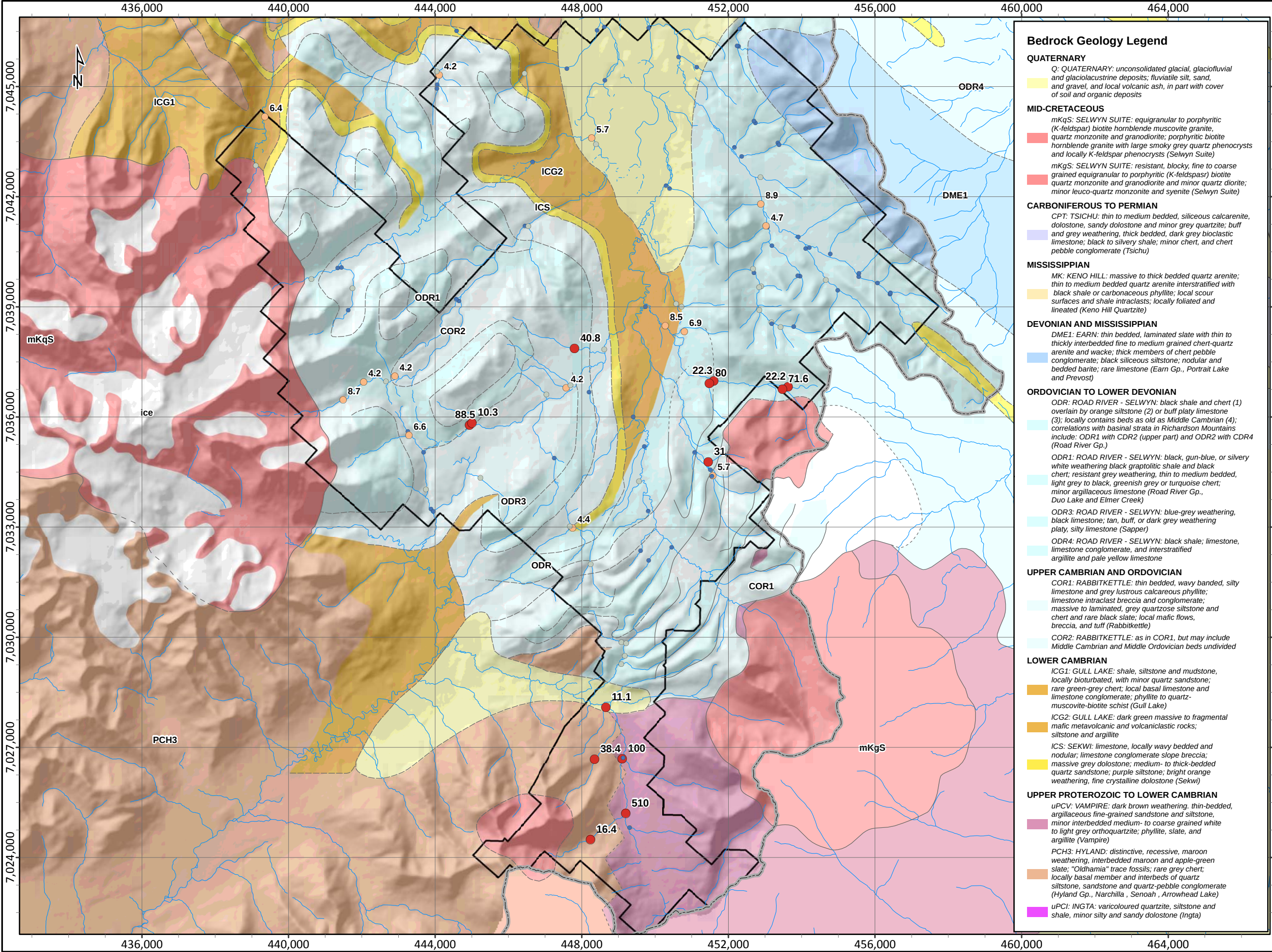
Gravimetric

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents in order to produce a lead button. The lead button containing the precious metals is cupelled to remove the lead. The remaining gold and silver bead is parted in dilute nitric acid, annealed and weighed as gold. Silver, if requested, is then determined by the difference in weights.

Method Code	Element	Symbol	Units	Sample Weight (g)	Detection Limit	Upper Limit
Ag - GRA21	Silver	Ag	ppm	30	5	10,000
Ag - GRA22	Silver	Ag	ppm	50	5	10,000
Au - GRA21	Gold	Au	ppm	30	0.05	1000
Au - GRA22	Gold	Au	ppm	50	0.05	1000

Appendix 5
Silt Geochemical Plots
for Select Elements





Bedrock Geology Legend

QUATERNARY

Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS

mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)

mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN

CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN

MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN

DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN

ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)

ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)

ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)

ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN

COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)

COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN

ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)

ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite

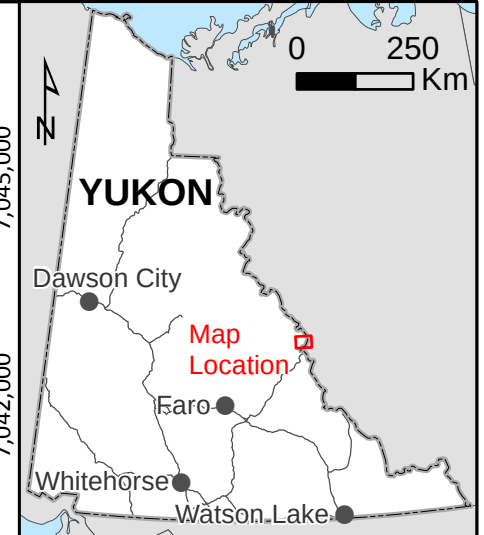
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN

uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)

PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)

uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

◇ GPD Property Outline

— YT - NWT Border

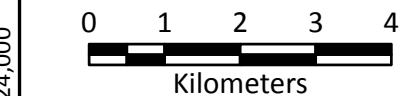
Au (ppb)

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- 2.1 - 4.0
- 4.1 - 10.2
- 10.3 - 510.0

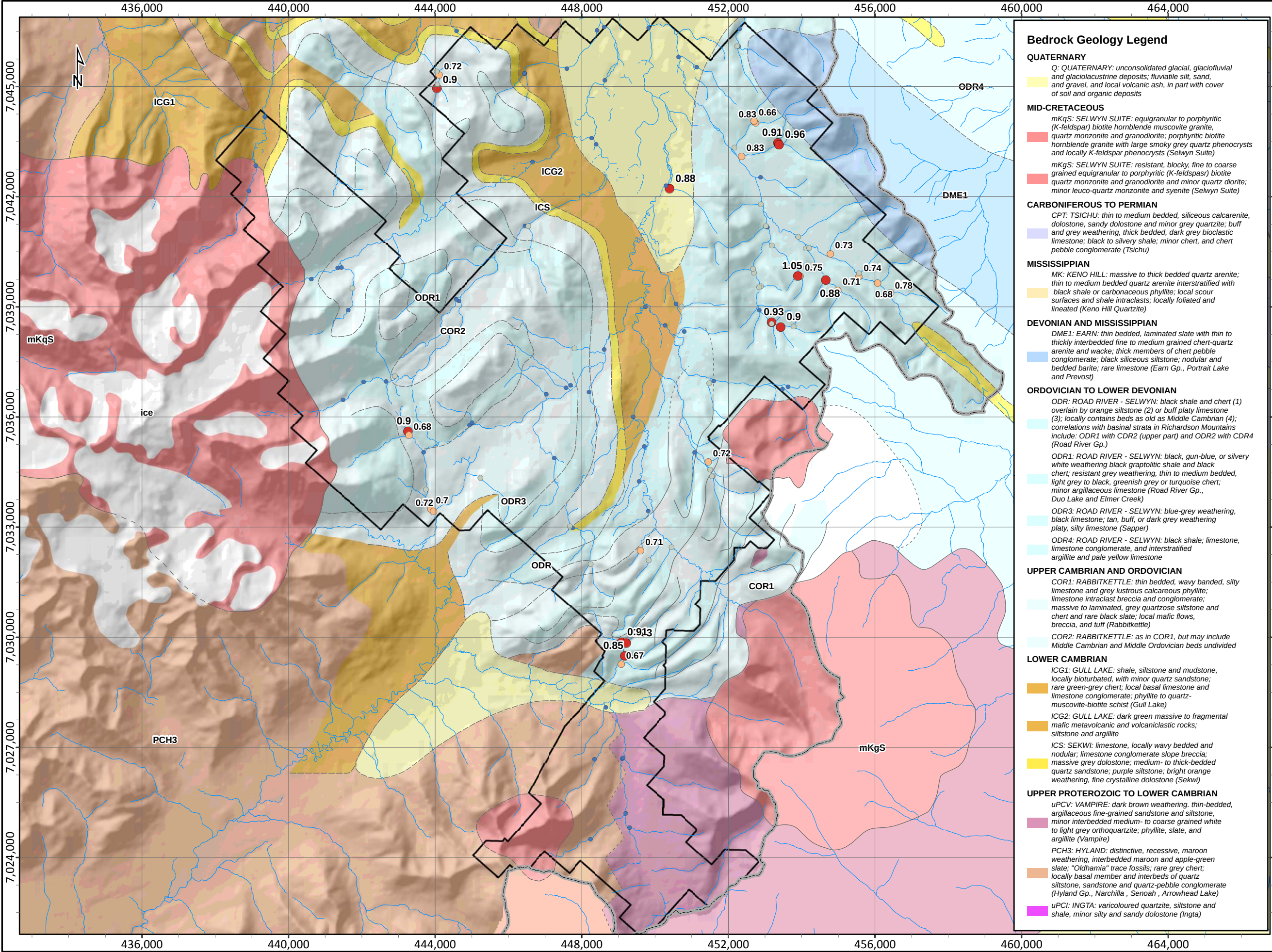


SER Project

2011 Stream Sample Results



Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 2
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltAu		



Bedrock Geology Legend

- QUATERNARY**
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits
- MID-CRETACEOUS**
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)
- CARBONIFEROUS TO PERMIAN**
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)
- MISSISSIPPIAN**
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)
- DEVONIAN AND MISSISSIPPIAN**
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)
- ORDOVICIAN TO LOWER DEVONIAN**
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone
- UPPER CAMBRIAN AND ORDOVICIAN**
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided
- LOWER CAMBRIAN**
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)
- UPPER PROTEROZOIC TO LOWER CAMBRIAN**
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

- ◇ GPD Property Outline
— YT - NWT Border

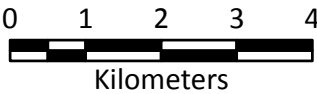
Ag (ppm)

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• 0.43 - 0.63
• 0.64 - 0.83
• 0.84 - 1.05

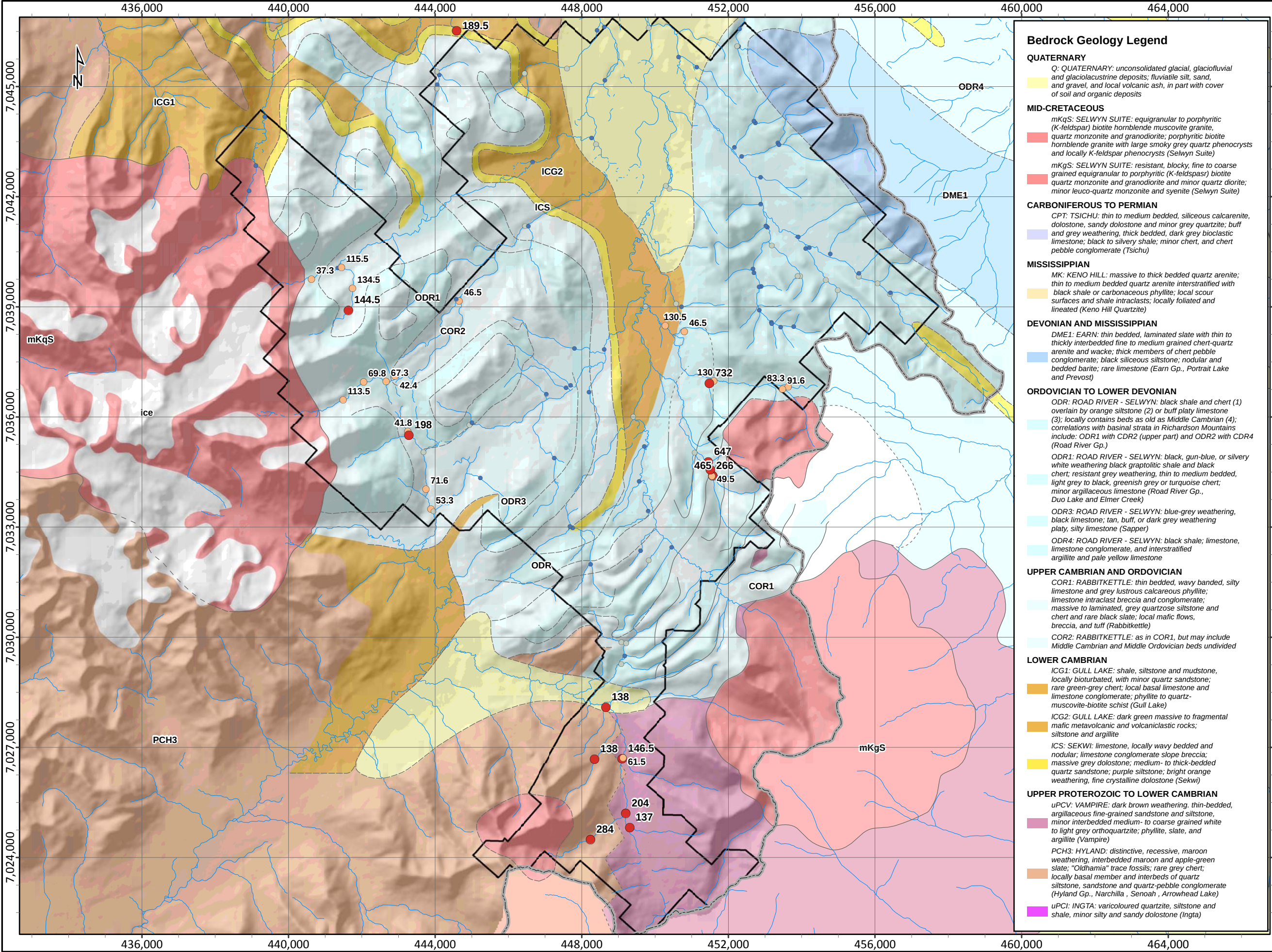


SER Project

**2011 Stream
Sample Results**



Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 3
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltAg		



Bedrock Geology Legend

QUATERNARY

Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS

mKgS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)

mKgS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN

CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN

MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN

DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN

ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)

ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)

ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)

ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN

COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)

COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN

ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)

ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite

ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN

uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)

PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)

uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

◇ GPD Property Outline

— YT - NWT Border

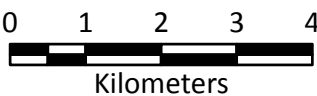
As (ppm)

- 3.5 - 20.1
- 20.2 - 37.1
- 37.2 - 136.7
- 136.8 - 732.0

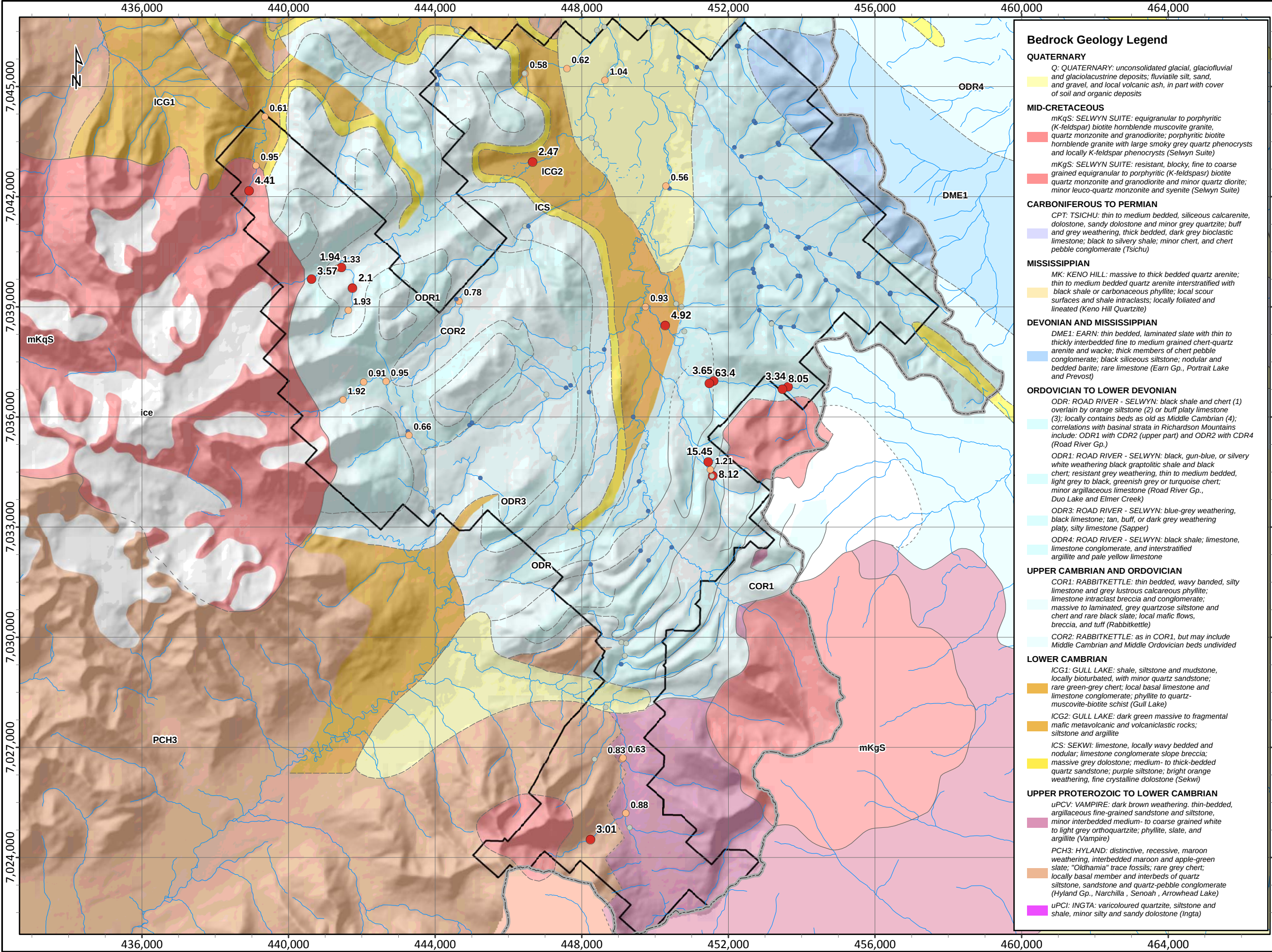


SER Project

**2011 Stream
Sample Results**



Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 4
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltAs		



Legend

- ◇ GPD Property Outline
- YT - NWT Border

Bi (ppm)

- 0.12 - 0.26
- 0.27 - 0.56
- 0.57 - 1.94
- 1.95 - 63.40

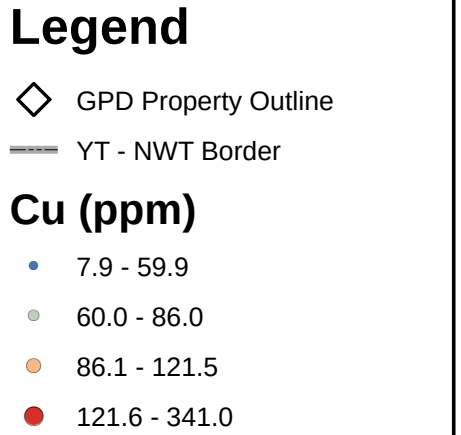
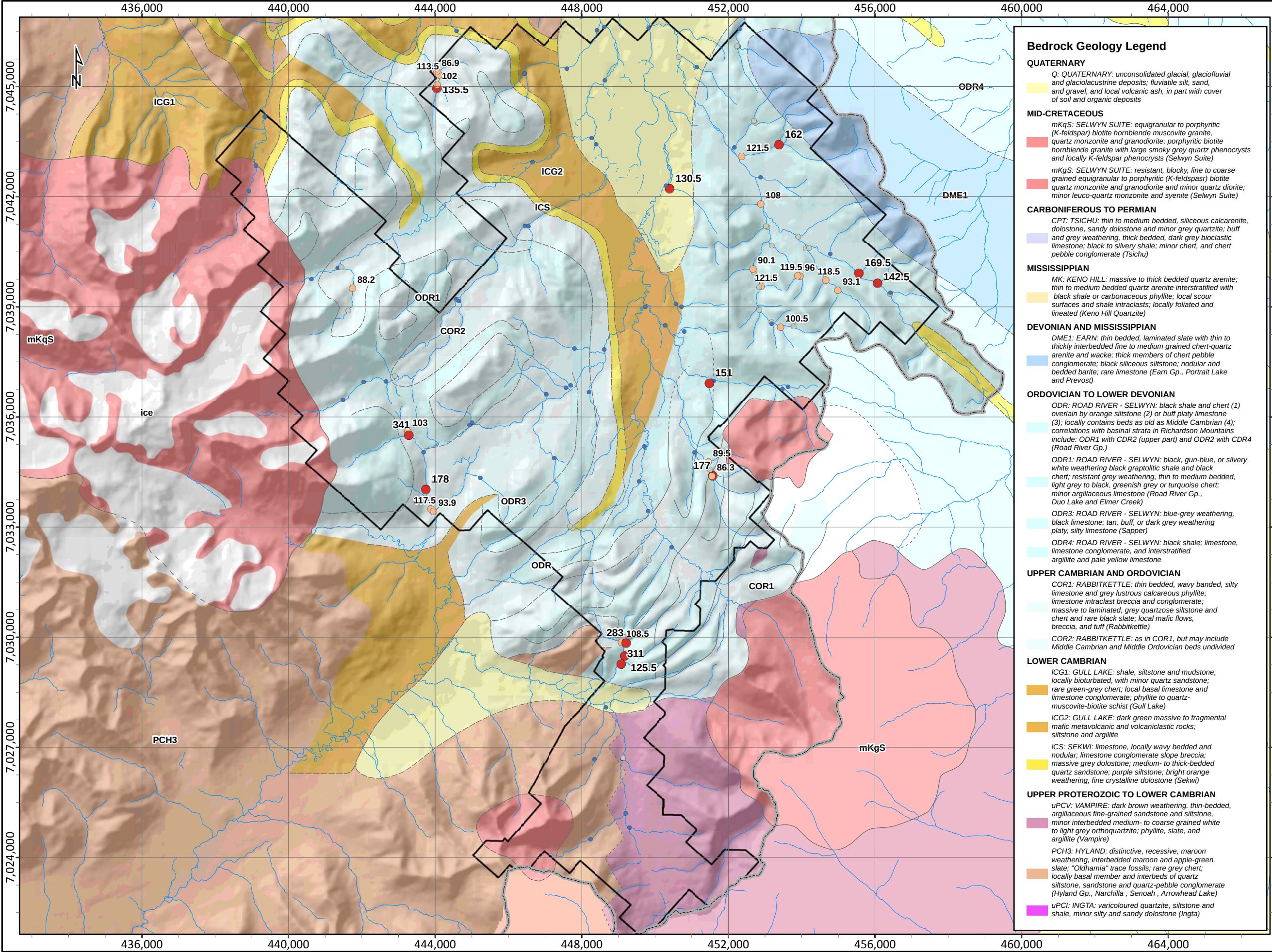


SER Project

2011 Stream Sample Results

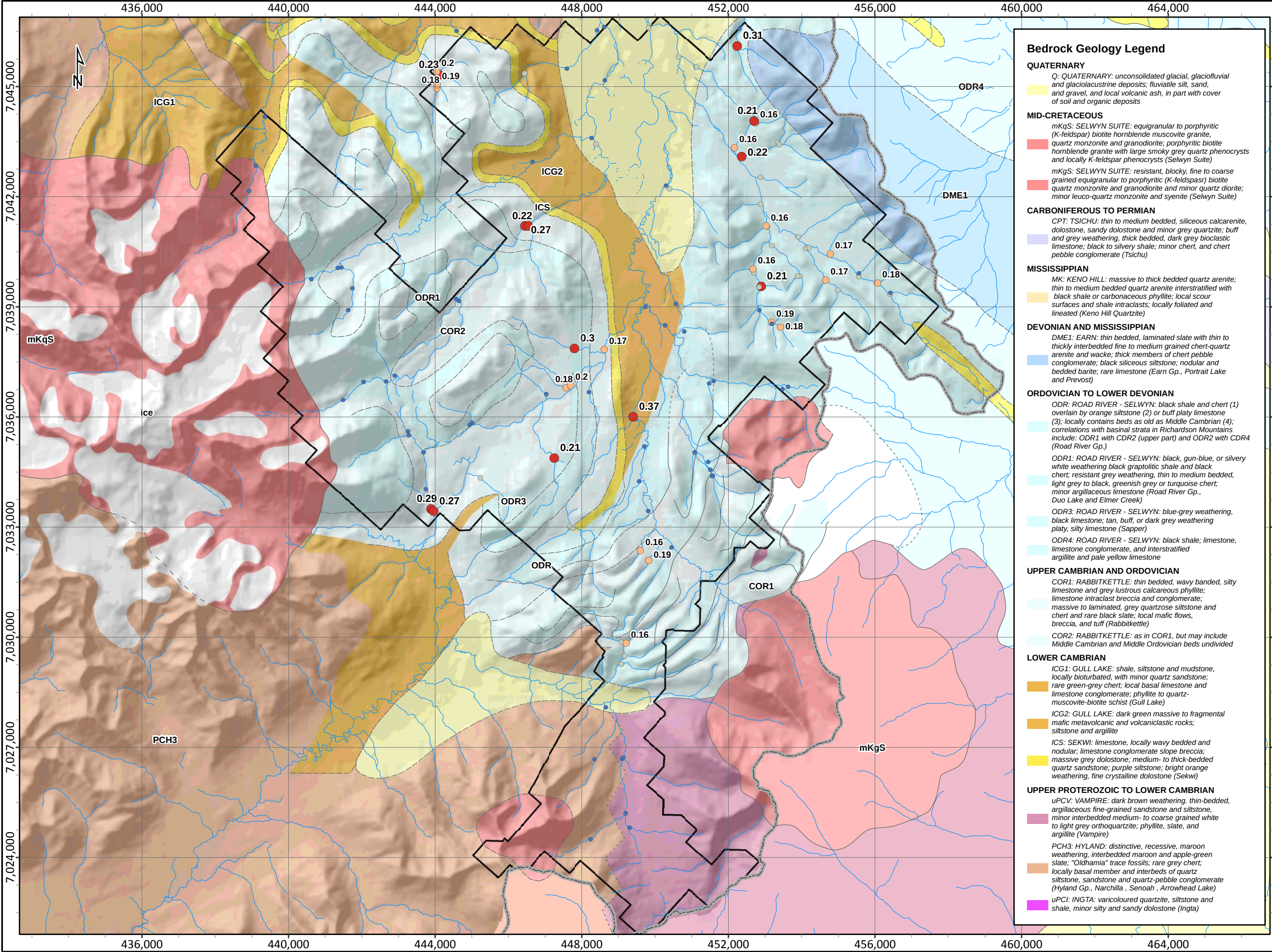


Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 5
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltBi		



SER Project
2011 Stream
Sample Results

0 1 2 3 4 Kilometers			
Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 6
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltCu		



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKgS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tschu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert, minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Hg (ppm)

0.005 - 0.095

0.096 - 0.150

0.151 - 0.200

0.201 - 0.370

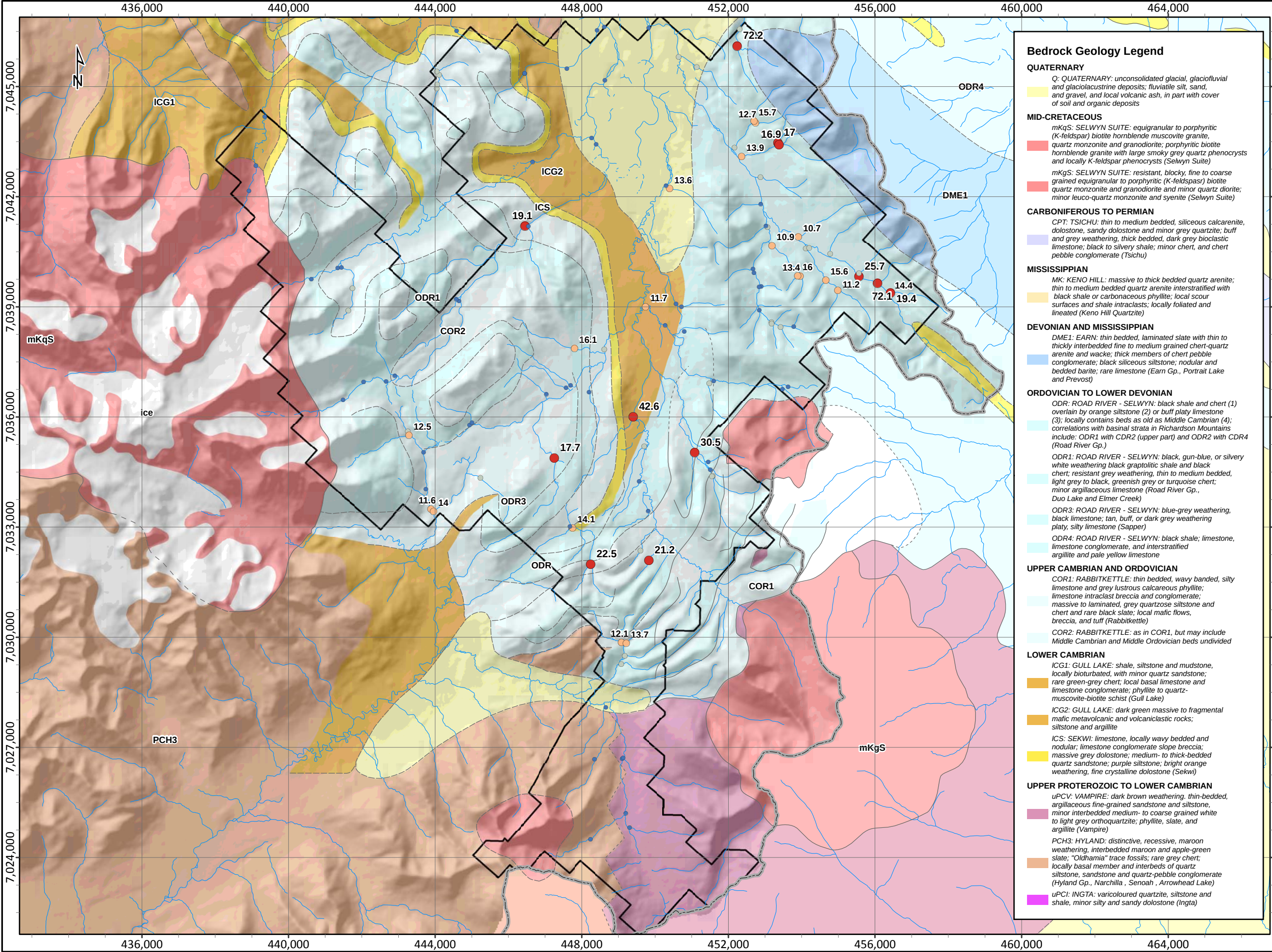


SER Project

2011 Stream
Sample Results

0 1 2 3 4
Kilometers

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 7
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltHg		



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tschu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Mo (ppm)

0.5 - 7.0

7.1 - 10.7

10.8 - 16.1

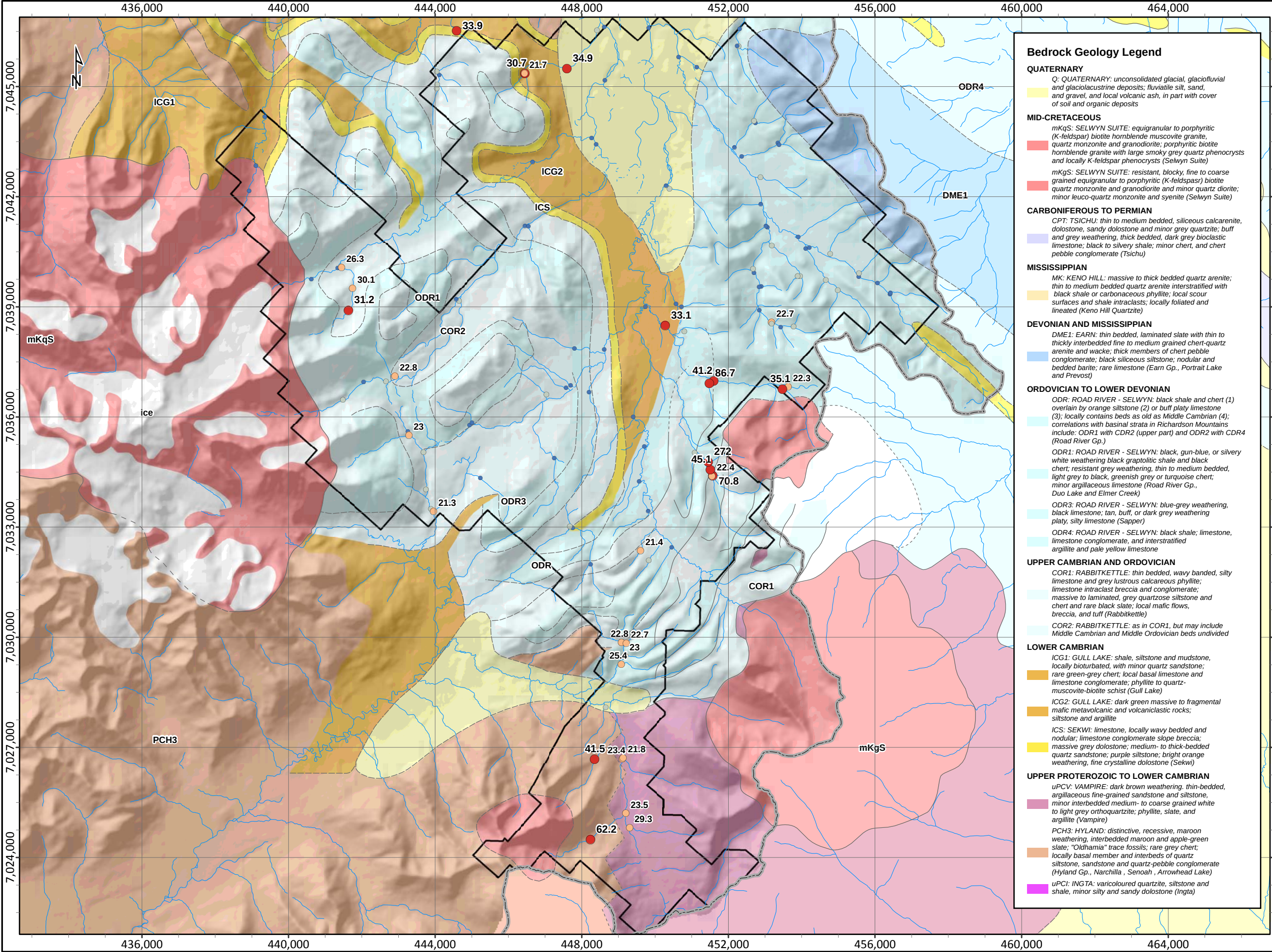
16.2 - 72.2



SER Project

2011 Stream
Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 8
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltMo		



Legend

◇ GPD Property Outline
--- YT - NWT Border

Pb (ppm)

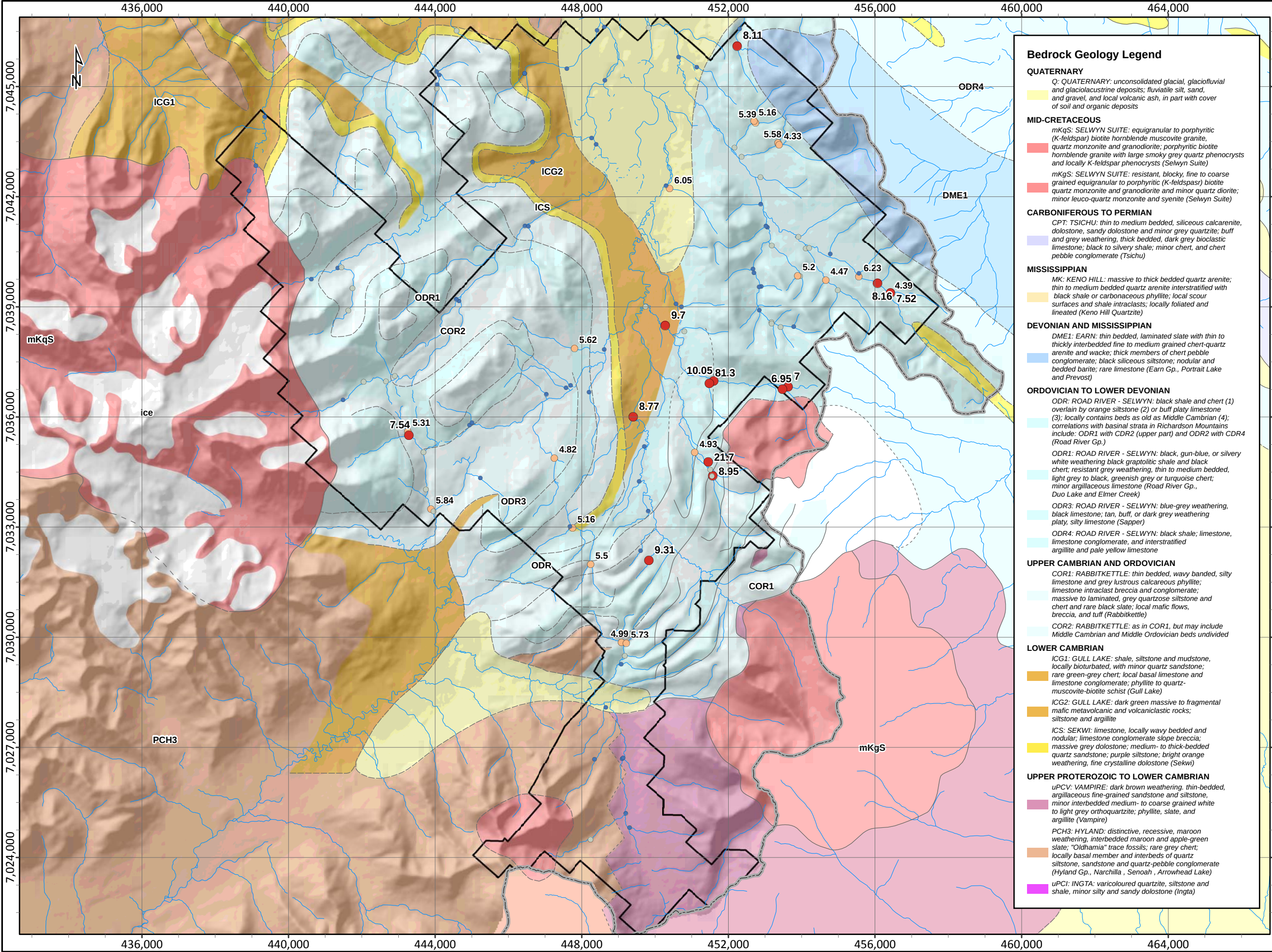
- 3.0 - 15.6
- 15.7 - 21.2
- 21.3 - 30.6
- 30.7 - 272.0



SER Project

2011 Stream Sample Results

0 1 2 3 4 Kilometers			
Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 9
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltPb		



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla , Senoah , Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Sb (ppm)

0.29 - 2.89

2.90 - 4.30

4.31 - 6.87

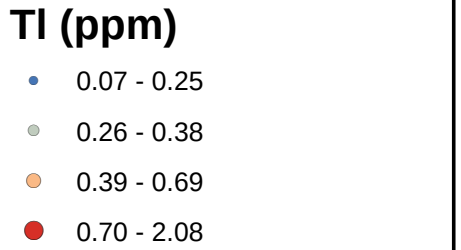
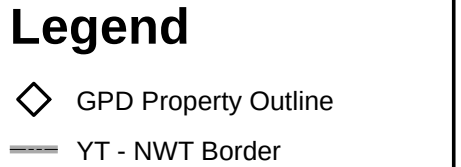
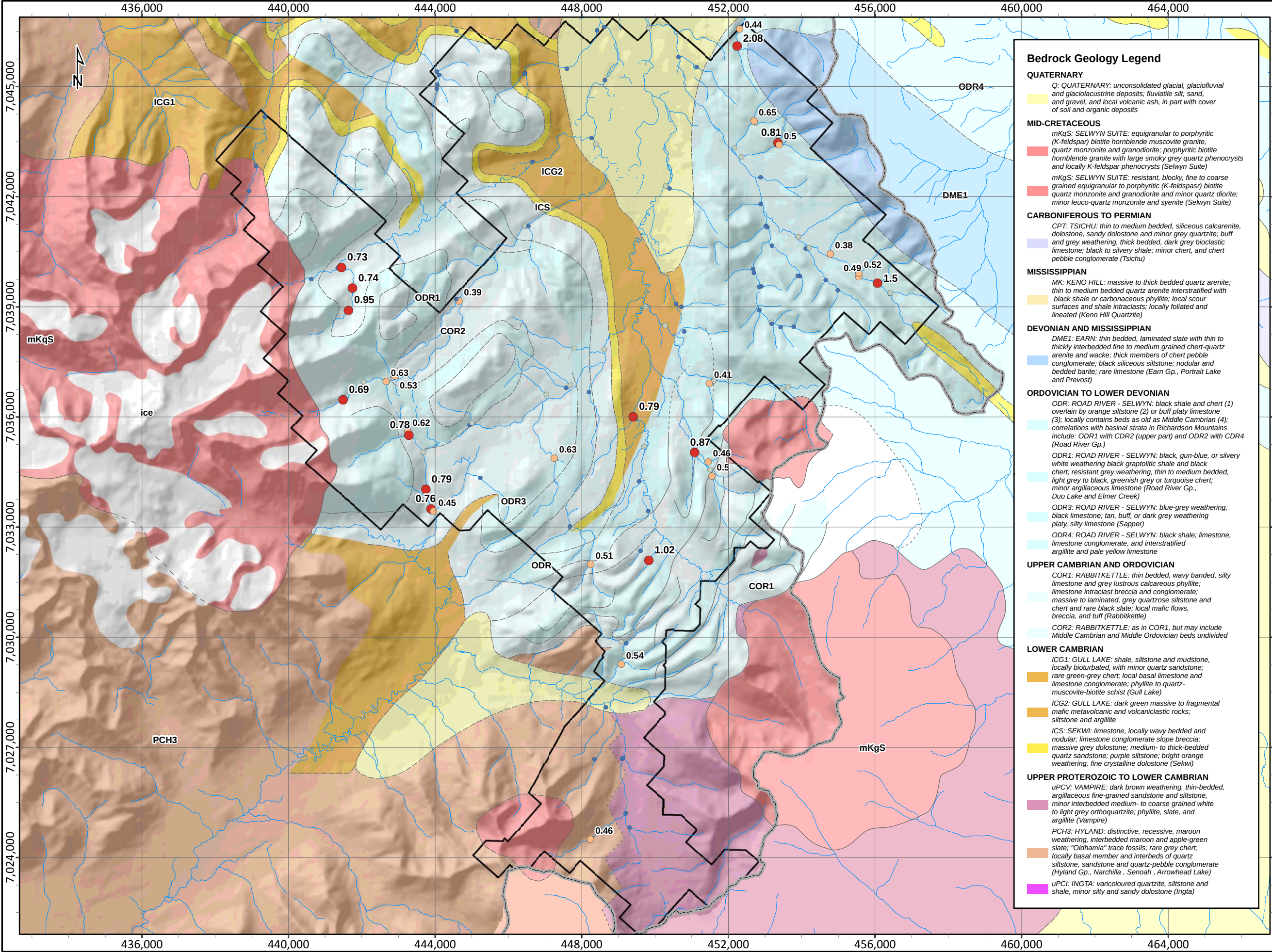
6.88 - 81.30



SER Project

2011 Stream
Sample Results

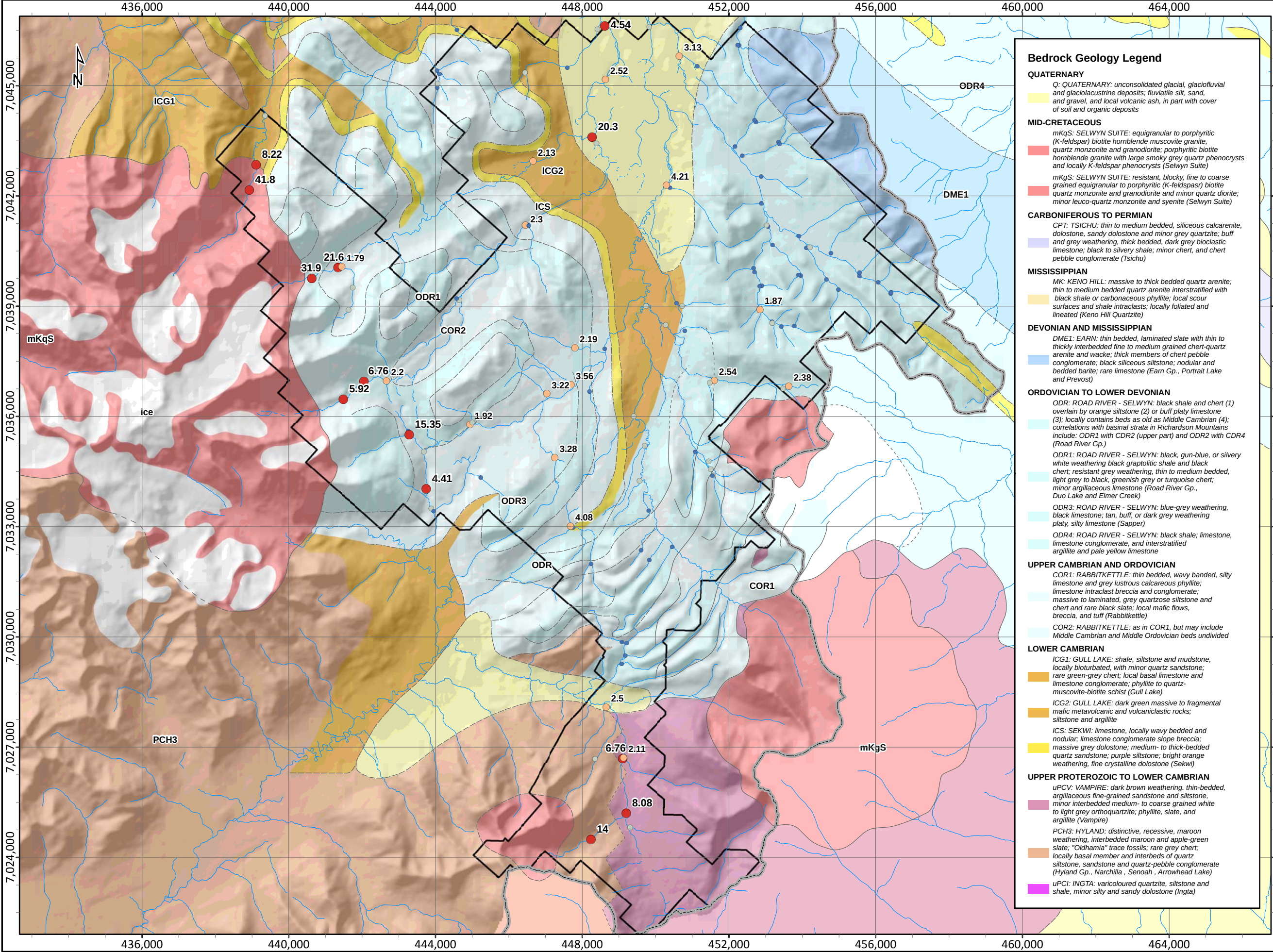
Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 10
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltSb		



SER Project

2011 Stream Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 11
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltTl		



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

W (ppm)

0.03 - 0.43

0.44 - 1.78

1.79 - 4.39

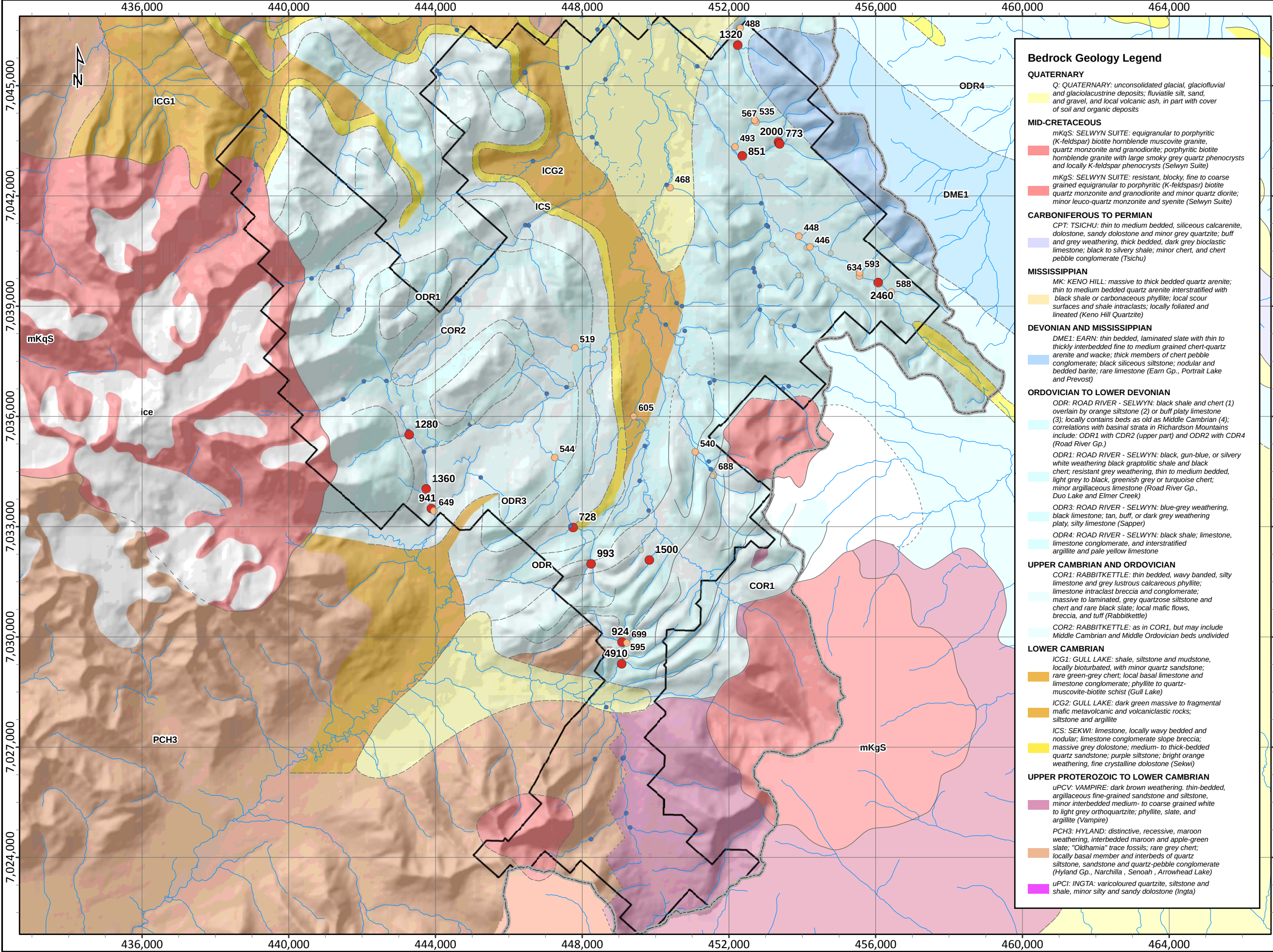
4.40 - 41.80



SER Project

2011 Stream Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 12
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltW		



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone, tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Zn (ppm)

7 - 242

243 - 437

438 - 725

726 - 4910



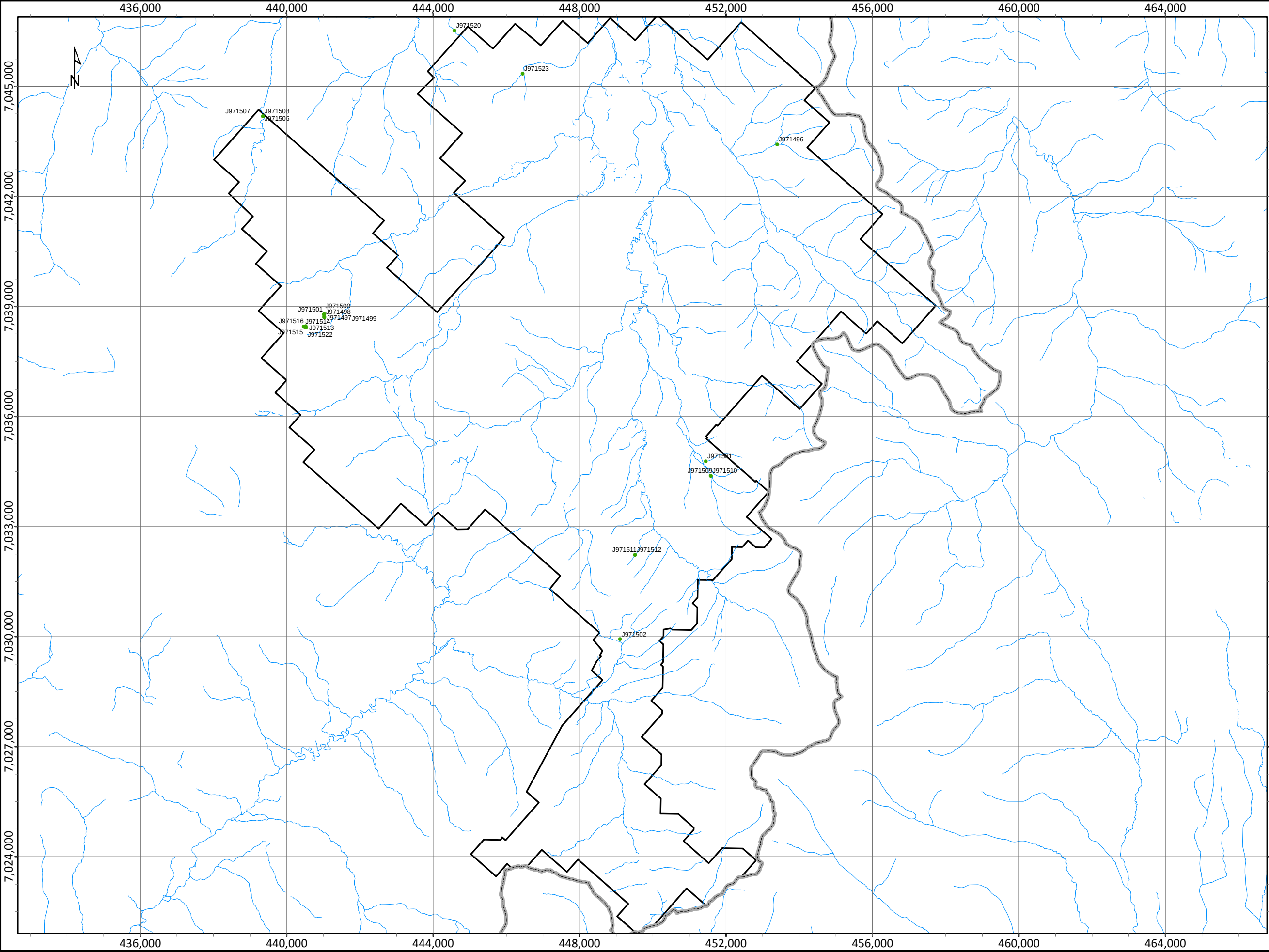
SER Project

2011 Stream
Sample Results

0 1 2 3 4
Kilometers

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 5 - 13
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_SiltZn		

Appendix 6
Rock Geochemical Plots
for Select Elements



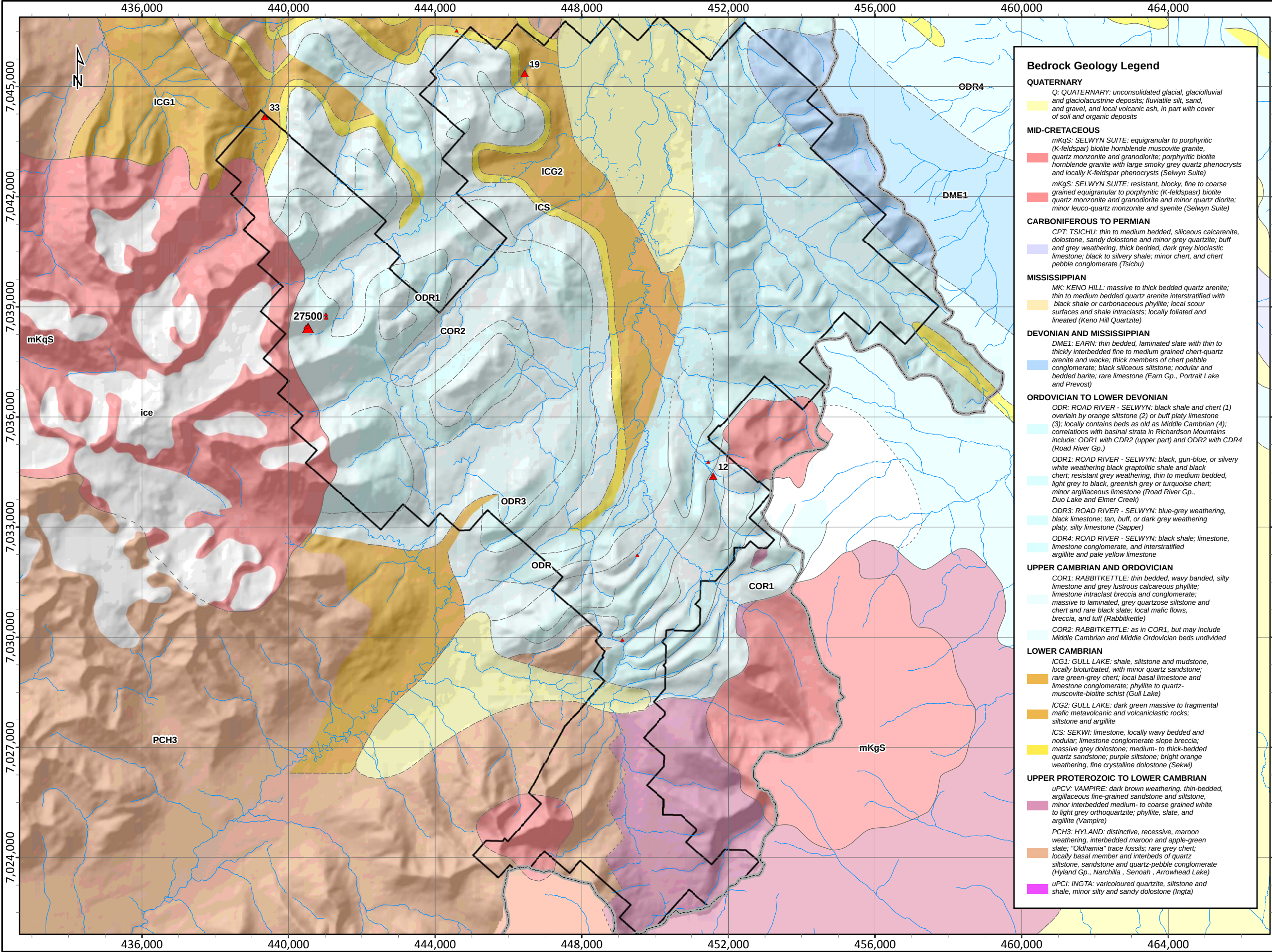
Legend

- ◇ GPD Property Outline
- YT - NWT Border
- Rock Samples



SER Project
2011 Rock
Sample Results

0 1 2 3 4 Kilometers			
Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 6 - 1
Author:	E. O'Brien	Office:	Vancouver
Location: 215 km NE of Faro, Yukon Territory			
Projection: NAD 1983 UTM Zone 9N			
Filename: SER_2011_RockIDs			



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKgS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKgS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla , Senoah , Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Au (ppb)

0 - 10

100

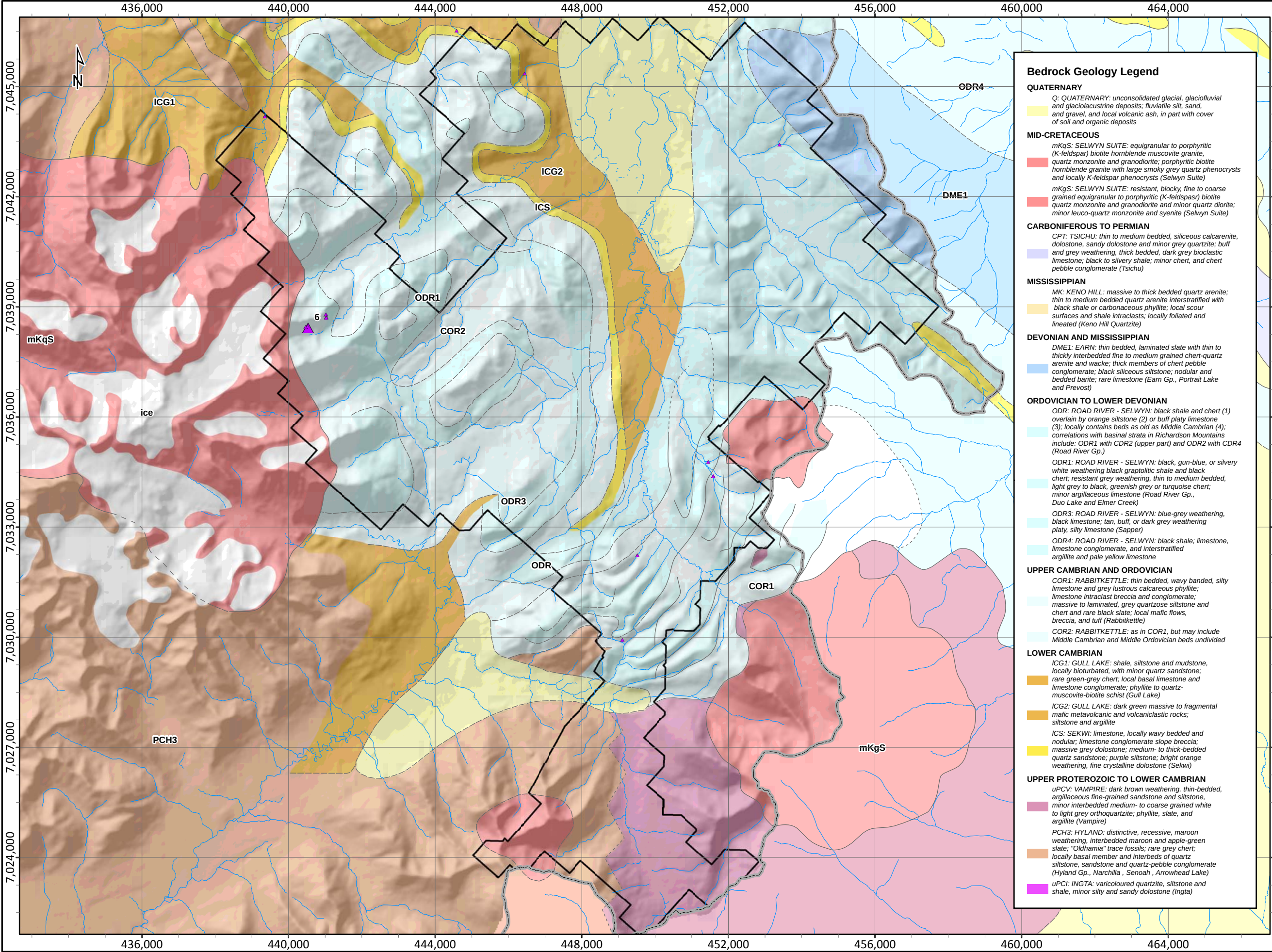
27500



SER Project

2011 Rock
Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 6 - 2
Author:	E. O'Brien	Office:	Vancouver
Location: 215 km NE of Faro, Yukon Territory			
Projection: NAD 1983 UTM Zone 9N			
Filename: SER_2011_RockAu			



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsicu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Ag (ppm)

0.05 - 2.00

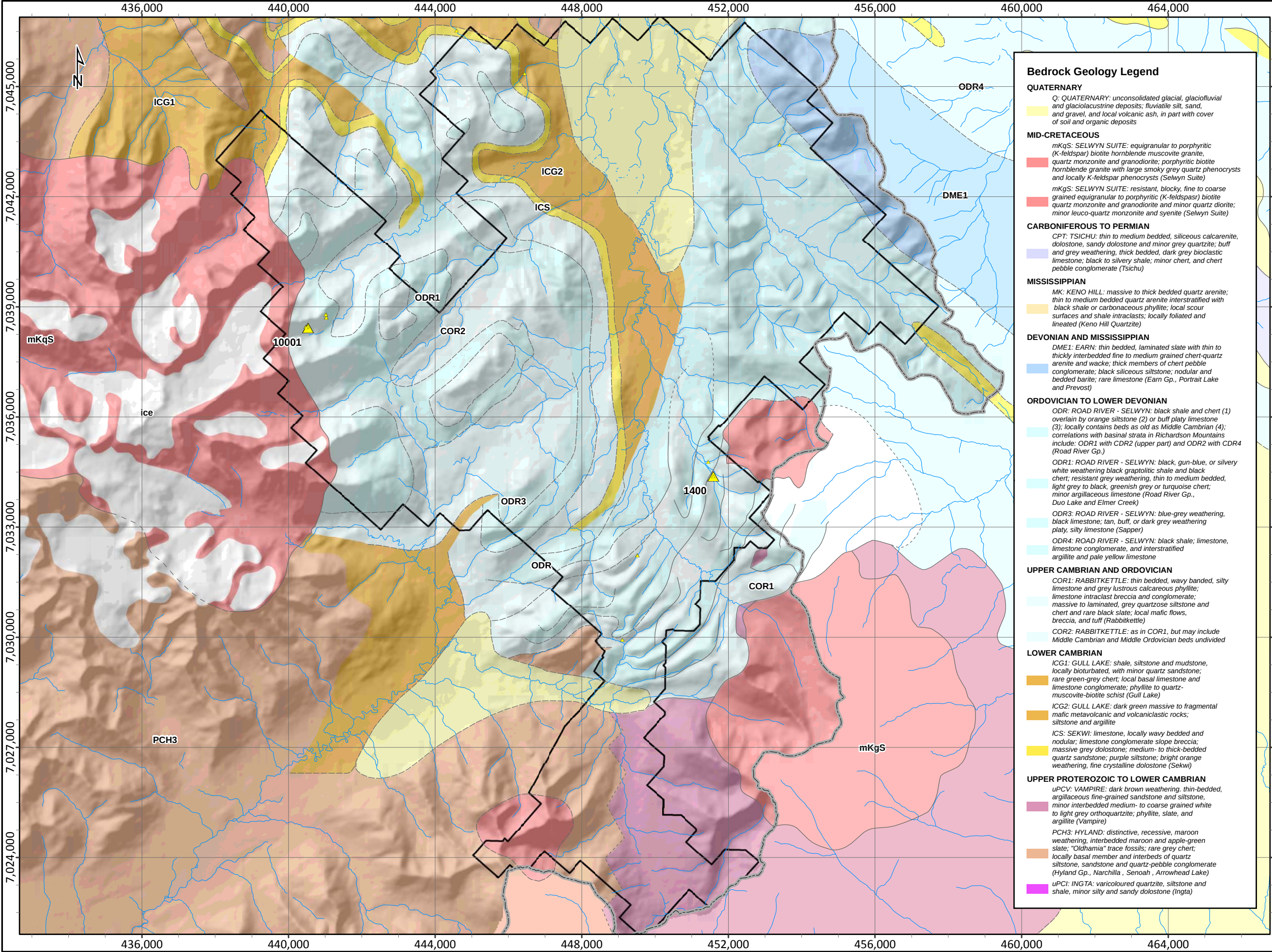
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SER Project

2011 Rock
Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 6 - 3
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_RockAg		



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

As (ppm)

1 - 292

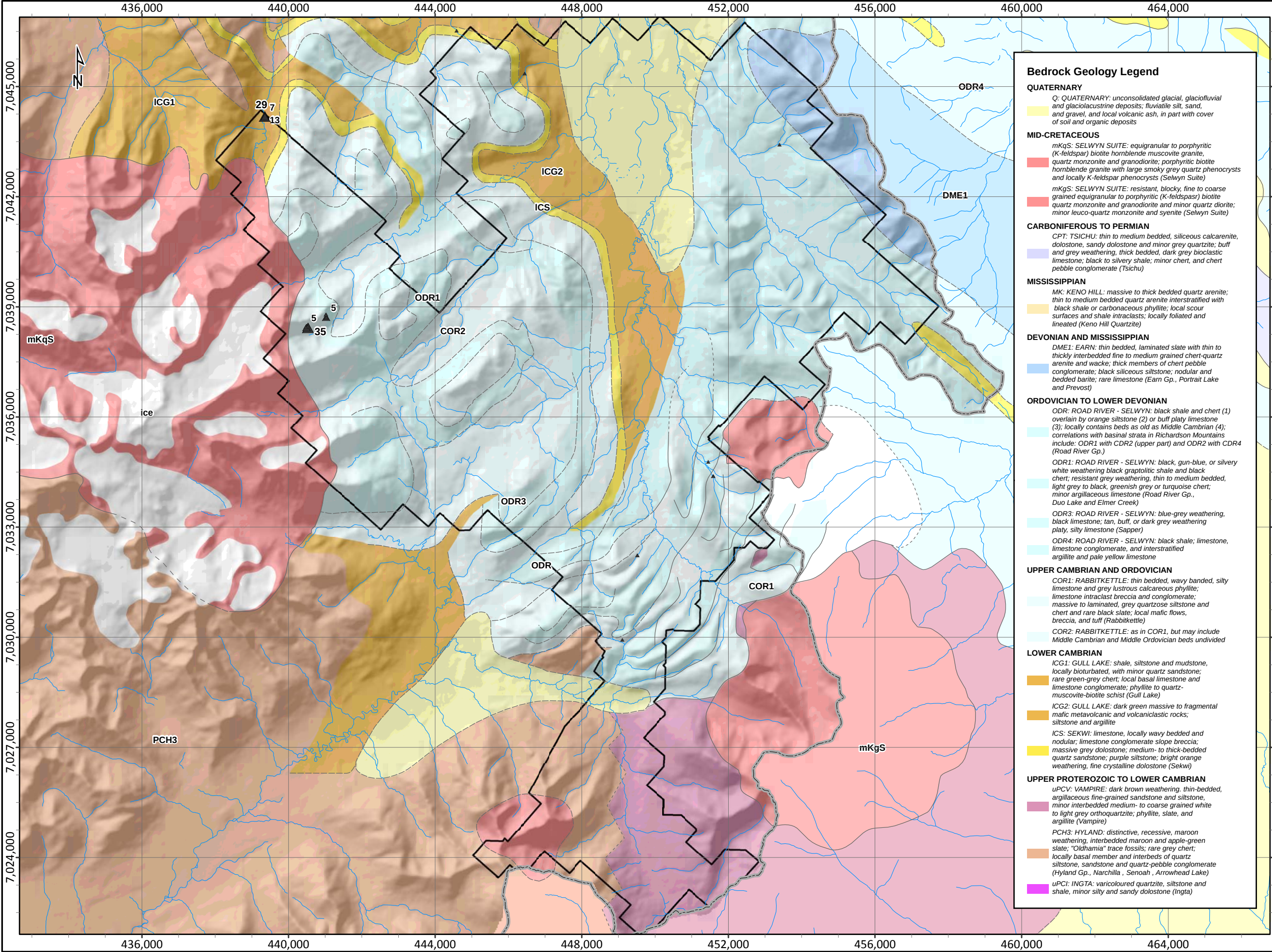
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SER Project

2011 Rock Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 6 - 4
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_RockAs		



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsicu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Bi (ppm)

0 - 4

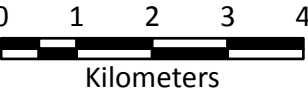
5 - 13

29 - 35

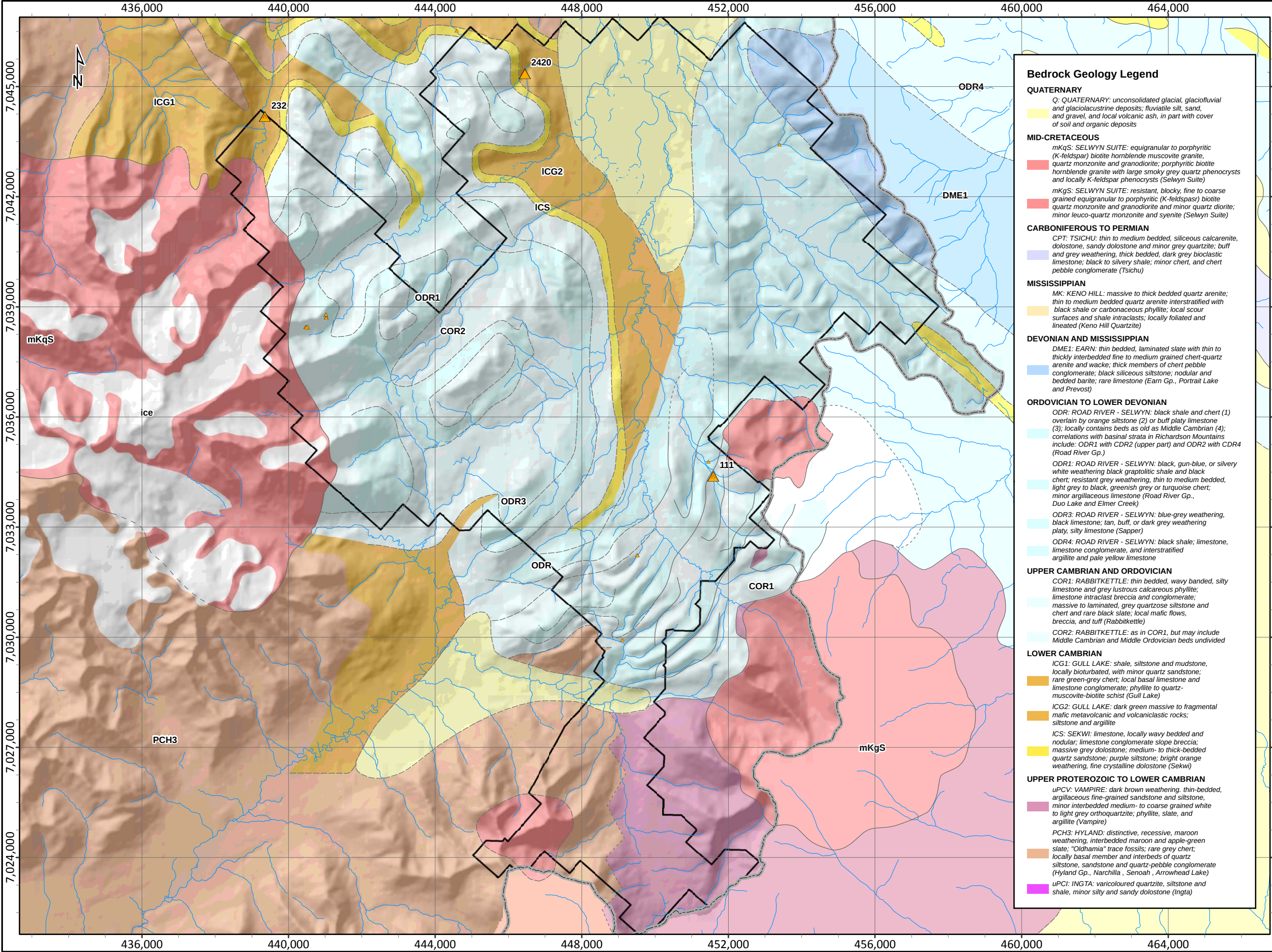


SER Project

2011 Rock
Sample Results



Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 6 - 5
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_RockBi		



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla , Senoah , Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Cu (ppm)

1 - 104

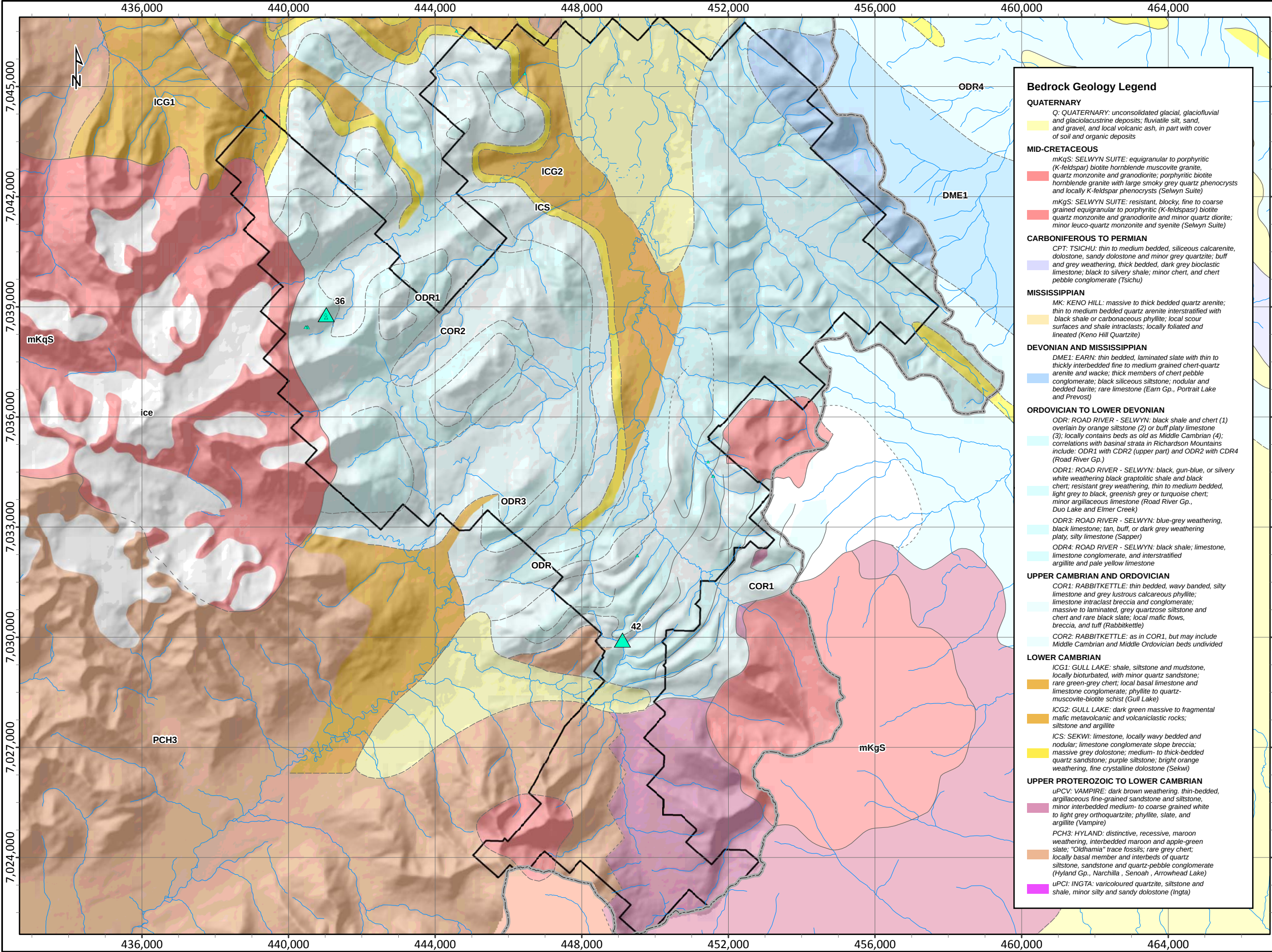
104 - 3740



SER Project

2011 Rock
Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 6 - 6
Author:	E. O'Brien	Office:	Vancouver
Location: 215 km NE of Faro, Yukon Territory			
Projection: NAD 1983 UTM Zone 9N			
Filename: SER_2011_RockCu			



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKgS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intracasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Mo (ppm)

0 - 28

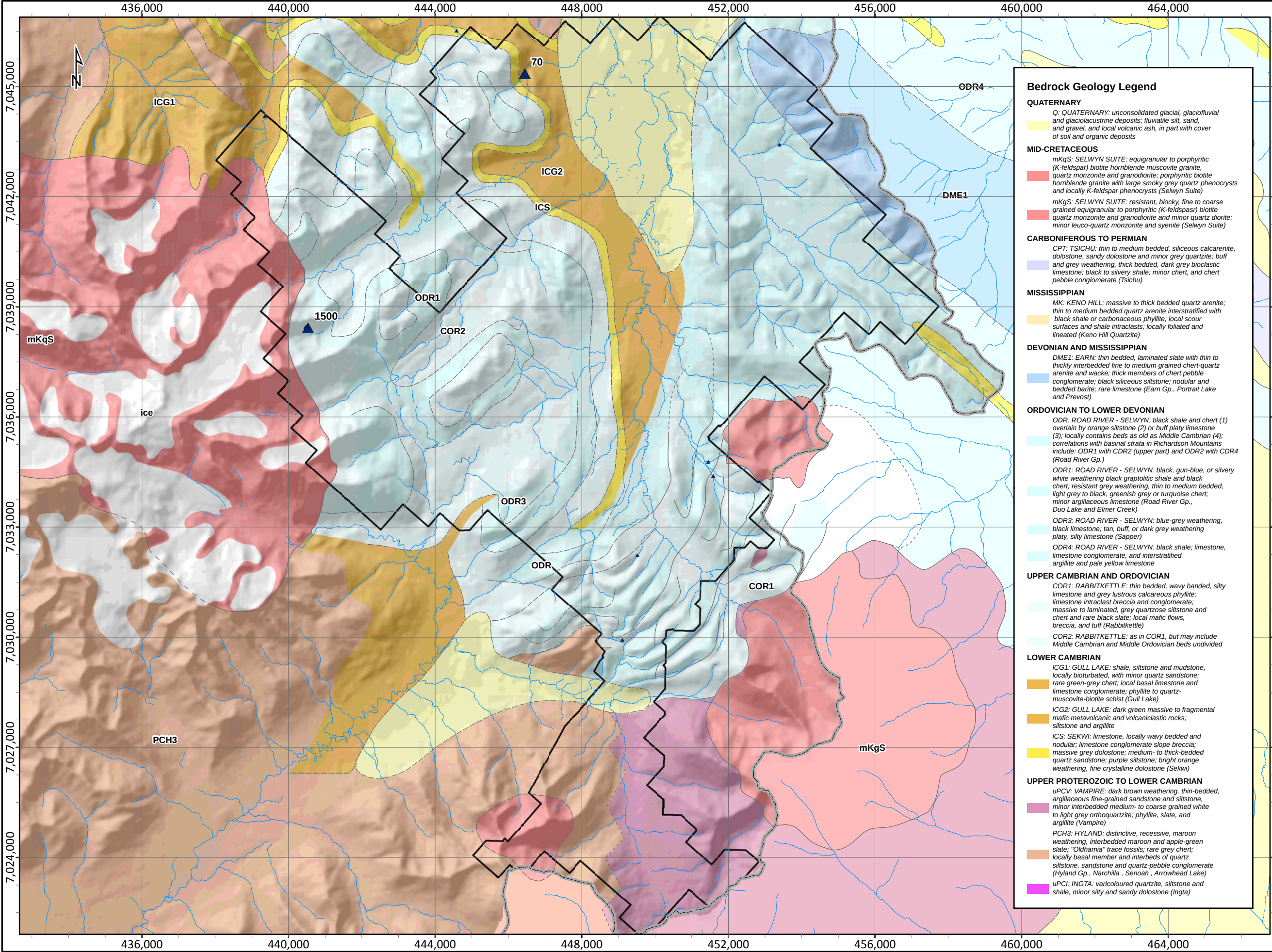
29 - 42



SER Project

2011 Rock
Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 6 - 7
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_RockMo		



Legend

◇ GPD Property Outline

— YT - NWT Border

Pb (ppm)

▲ 1 - 50

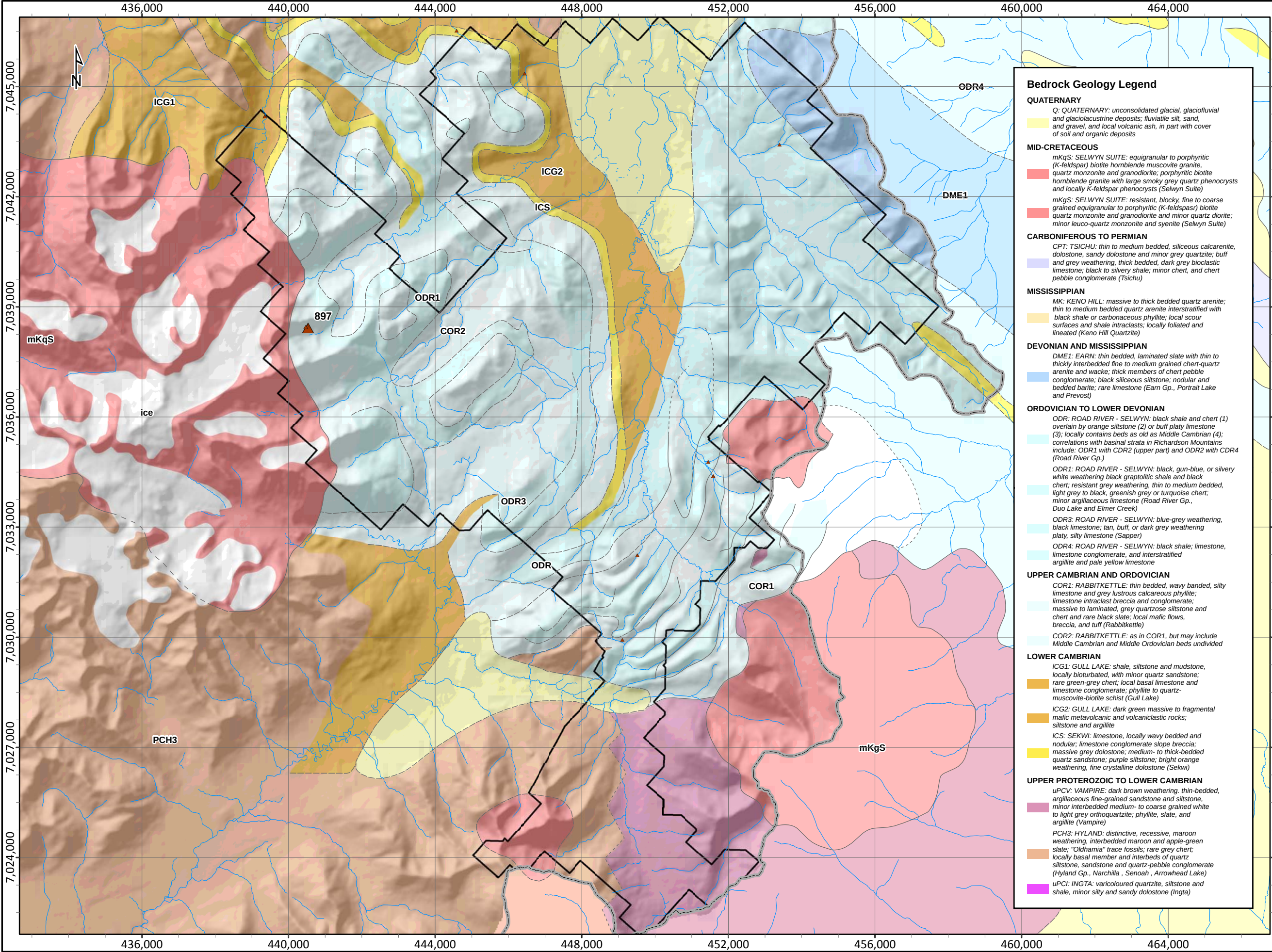
▲ 59 - 1500



SER Project

2011 Rock Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 6 - 8
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_RockPb		



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKqS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intracasts; locally foliated and lineated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWIL: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone, medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Sb (ppm)

0 - 26

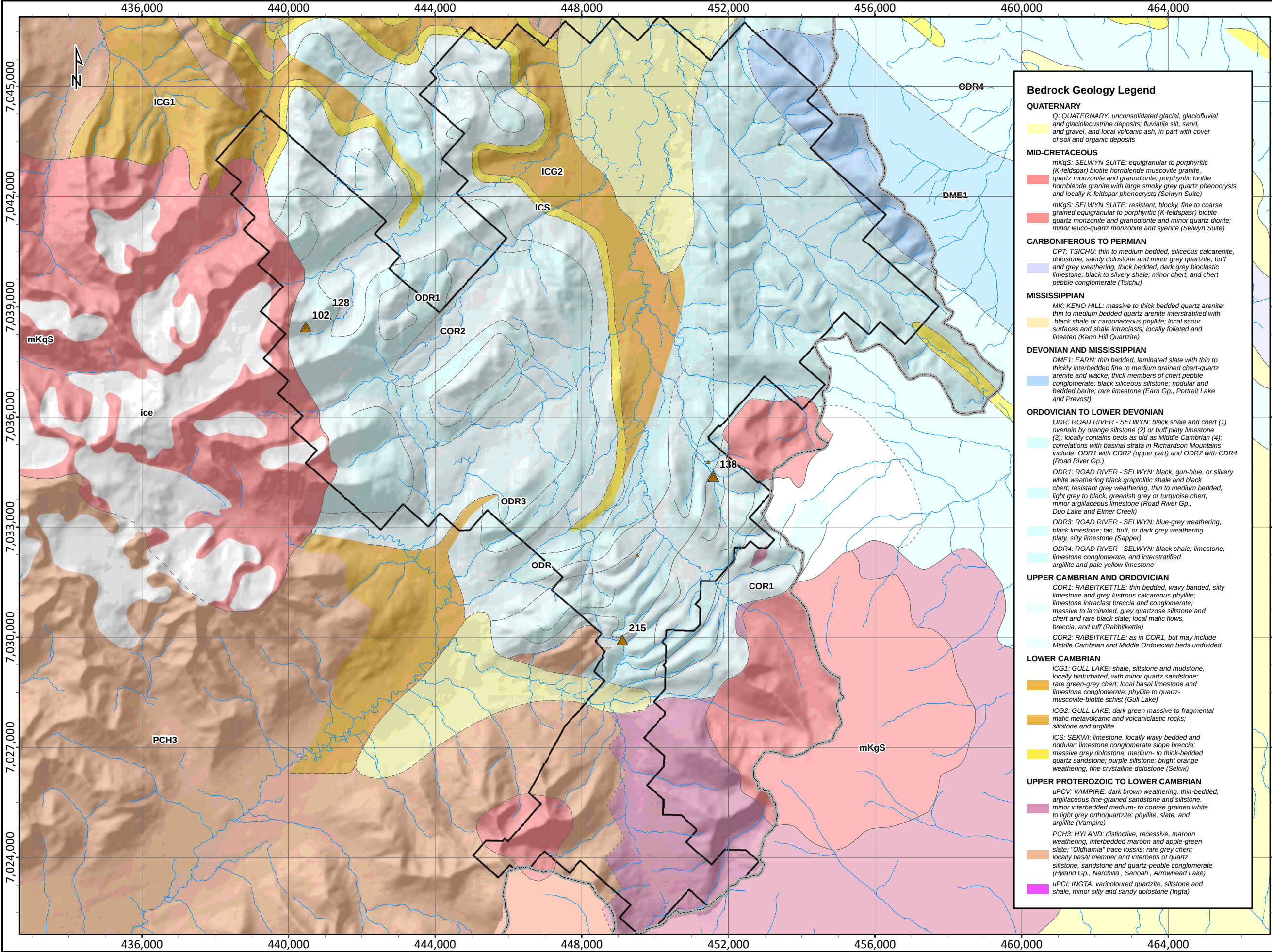
49 - 897



SER Project

2011 Rock
Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 6 - 9
Author:	E. O'Brien	Office:	Vancouver
Location: 215 km NE of Faro, Yukon Territory			
Projection: NAD 1983 UTM Zone 9N			
Filename: SER_2011_RockSb			



Bedrock Geology Legend

QUATERNARY
Q: QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS
mKqS: SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)
mKgS: SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

CARBONIFEROUS TO PERMIAN
CPT: TSICHU: thin to medium bedded, siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate (Tsichu)

MISSISSIPPIAN
MK: KENO HILL: massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and leneated (Keno Hill Quartzite)

DEVONIAN AND MISSISSIPPIAN
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN
ODR: ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)
ODR1: ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
ODR3: ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone (Sapper)
ODR4: ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

UPPER CAMBRIAN AND ORDOVICIAN
COR1: RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff (Rabbitkettle)
COR2: RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

LOWER CAMBRIAN
ICG1: GULL LAKE: shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (Gull Lake)
ICG2: GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite
ICS: SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium- to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone (Sekwi)

UPPER PROTEROZOIC TO LOWER CAMBRIAN
uPCV: VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite (Vampire)
PCH3: HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla, Senoah, Arrowhead Lake)
uPCI: INGTA: varicoloured quartzite, siltstone and shale, minor silty and sandy dolostone (Ingta)



Legend

GPD Property Outline

YT - NWT Border

Zn (ppm)

1 - 100

102 - 215



SER Project

2011 Rock
Sample Results

Scale:	1:100,000	Map ID:	--
Draw Date:	2012/03/02	Rev. Date:	--
Version:	1	Figure:	Appendix 6 - 10
Author:	E. O'Brien	Office:	Vancouver
Location:	215 km NE of Faro, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	SER_2011_RockZn		