

# ASSESSMENT REPORT, 2011 GEOCHEMICAL SAMPLING PROGRAM

## JEL PROPERTY

WATSON LAKE MINING DIVISION, YUKON, CANADA

NTS MAP SHEET: 105I/12, NAD83 ZONE 9

454350E, 6938500 N (NAD83)

### CLAIMS AND OWNER:

Claim Name	Number	Grant Number	Registered Owner
JEL	1 - 2	YD145401 - YD145402	Golden Predator Canada Corp. - 100%
JEL	3 - 102	YD145003 - YD145102	Golden Predator Canada Corp. - 100%
JEL	103 - 116	YD147533 - YD147546	Golden Predator Canada Corp. - 100%

**PERIOD OF WORK: AUGUST 29<sup>TH</sup> AND 30<sup>TH</sup>, 2011**

### OWNER AND OPERATOR:

#### **GOLDEN PREDATOR CANADA CORP.**

1 Lindeman Road  
Whitehorse, Yukon  
Y1A 5Z7

October 9<sup>th</sup>, 2012

Prepared by:

#### **Golden Predator Canada Corp.**

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

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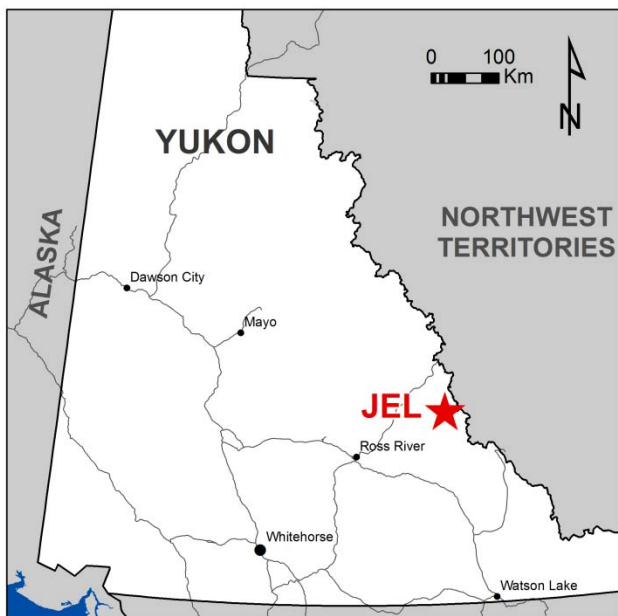


## 1.0 INTRODUCTION

The JEL property consists of 116 contiguous mineral claims covering an area of 2,424 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 possible Carlin-style gold systems.

This report describes the work completed in the 2011 field season on August 29<sup>th</sup> and 30<sup>th</sup> which consisted of stream sediment and grab rock sampling.

## 2.0 PROPERTY LOCATION AND DESCRIPTION

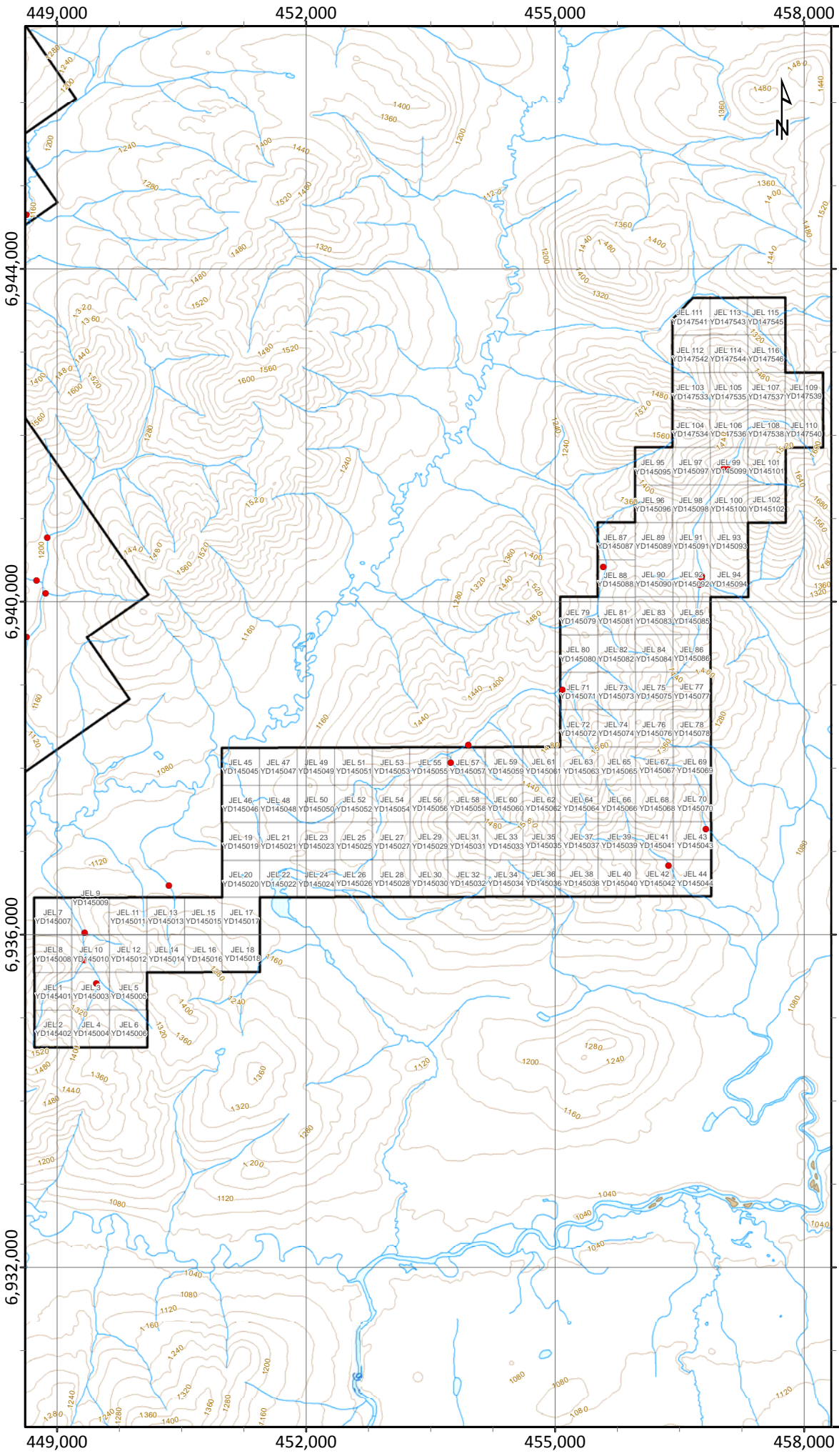


The property is located on in eastern central Yukon. It lies 125 km east of Ross River, YT (Figure 2-1). It is accessed by 60 minute helicopter trip from Ross River. The North Canol Road lies 75 km west of the property. The property is located in the Watson Lake Mining District, and consists of 116 contiguous mineral claims covering an aggregate area of 2,424 hectares (Table 2-1, Figure 2-2).

**Figure 2-1.** JEL Property Location, Yukon Territory

**Table 2-1. JEL Claim Information**

Claim Name	Number	Grant Number	Registered Owner	Expiry Date
JEL	1 - 2	YD145401 - YD145402	Golden Predator Canada	14/07/2012
JEL	3 - 102	YD145003 - YD145102	Golden Predator Canada	14/07/2012
JEL	103 - 116	YD147533 - YD147546	Golden Predator Canada	14/07/2012

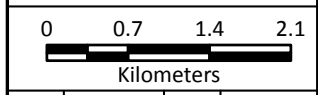


### Legend

- GPD Property Outline
- Quartz Claim
- Stream Sediment
- Elevation (40 m)
- Watercourse



### JEL Property Claim Map, Sample Locations



Scale:	1:65,000	Map ID:	--
Draw Date:	2012/05/11	Rev. Date:	--
Version:	1	Figure:	2-2
Author:	E. O'Brien	Office:	Vancouver
Location:	150 km ENE of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	JEL 2011 Claim		

### **3.0 INFRASTRUCTURE, CLIMATE AND PHYSIOGRAPHY**

The centre of the property is located at 454350E, 6938500 N (NAD83, zone 9). The nearest settlement accessible by road is Ross River, which is located 100 km to the southwest along the North 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  $-4.5^{\circ}\text{C}$  with a summer mean of  $9.5^{\circ}\text{C}$  and a winter mean of  $-19.5^{\circ}\text{C}$ . 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 on the property range from 1,080 to 1,600 metres above mean sea level.

### **4.0 EXPLORATION HISTORY**

There is no known historical work on the JEL. Minfile 105I036, the Oro, located 2 km east of the property is the closest Minfile occurrence. The Oro drilled prospect is part of the Selwyn or Howard's Pass project which consists of 15 lead-zinc deposits over a 37.5 km strike length (<http://servlet.gov.yk.ca/ygsmin/occurrence.do?occurrenceID=105I+036>). The Oro occurrence is underlain by a northwest trending package of Lower to Upper Devonian Portrait Lake Formation shale and siltstone belonging to the Lower Earn Group. It overlies Ordovician to Silurian Road River Group shale and mudstone and Upper Cambrian to Lower Ordovician Rabbitkettle Formation limestone. A lenticular, thinly bedded barite horizon, measuring approximately 1,100 m long, 15 - 50 m wide and up to 50 m thick, occurs near the base of the Portrait Lake Formation on the former Oro claims. Barite beds, with low lead and zinc values, grade upward to siliceous siltstone that is overlain by pebbly mudstone. The barite horizon is underlain by a stockwork of quartz-ankerite-pyrite-barite veins within silicified, locally pyritic grey siltstone and argillite. Soil sampling to the west identified a linear zone of anomalous barium values that extends west onto the claims but the joint venture was unable to locate any significant zinc-lead mineralization.

## 5.0 GEOLOGY

### 5.1 Regional Geology

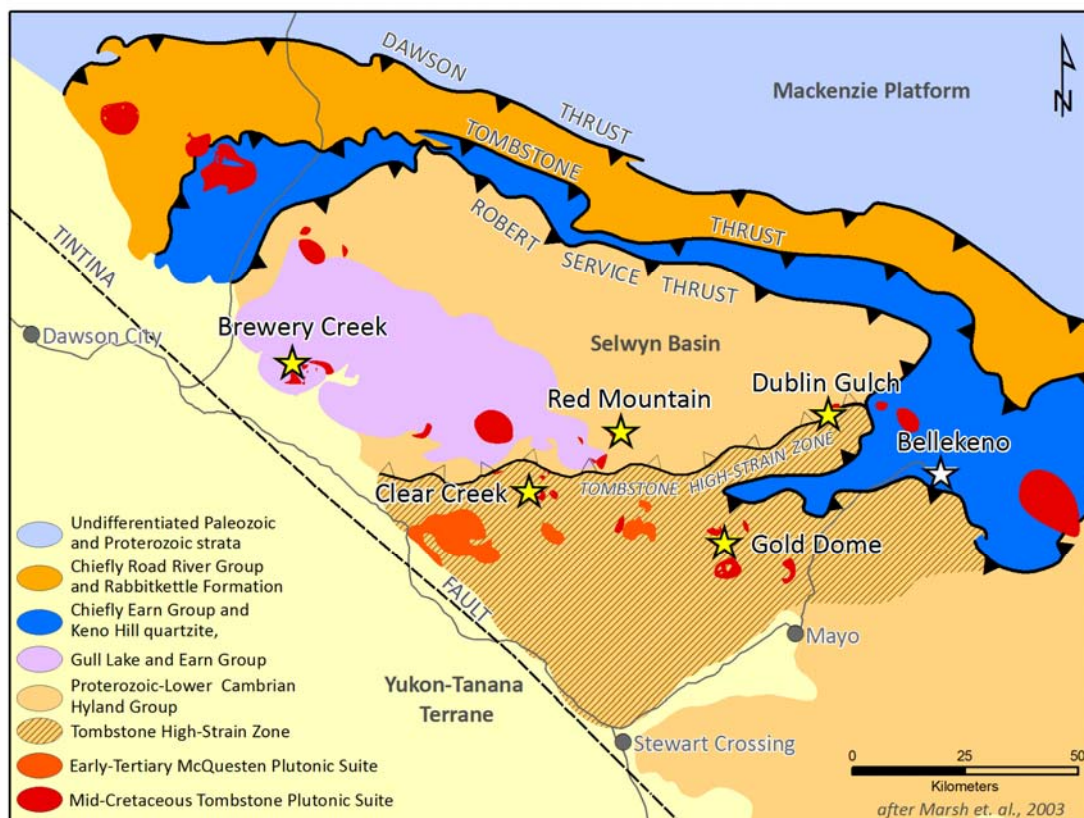
The property is located in the eastern edge of the Selwyn Basin. The Selwyn Basin is bound on the south by the Tintina Fault (and the Intermontane Superterrane) and bound on the north by the Dawson Thrust Fault and the North American Shelf (Figure 5-1).

The 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.**

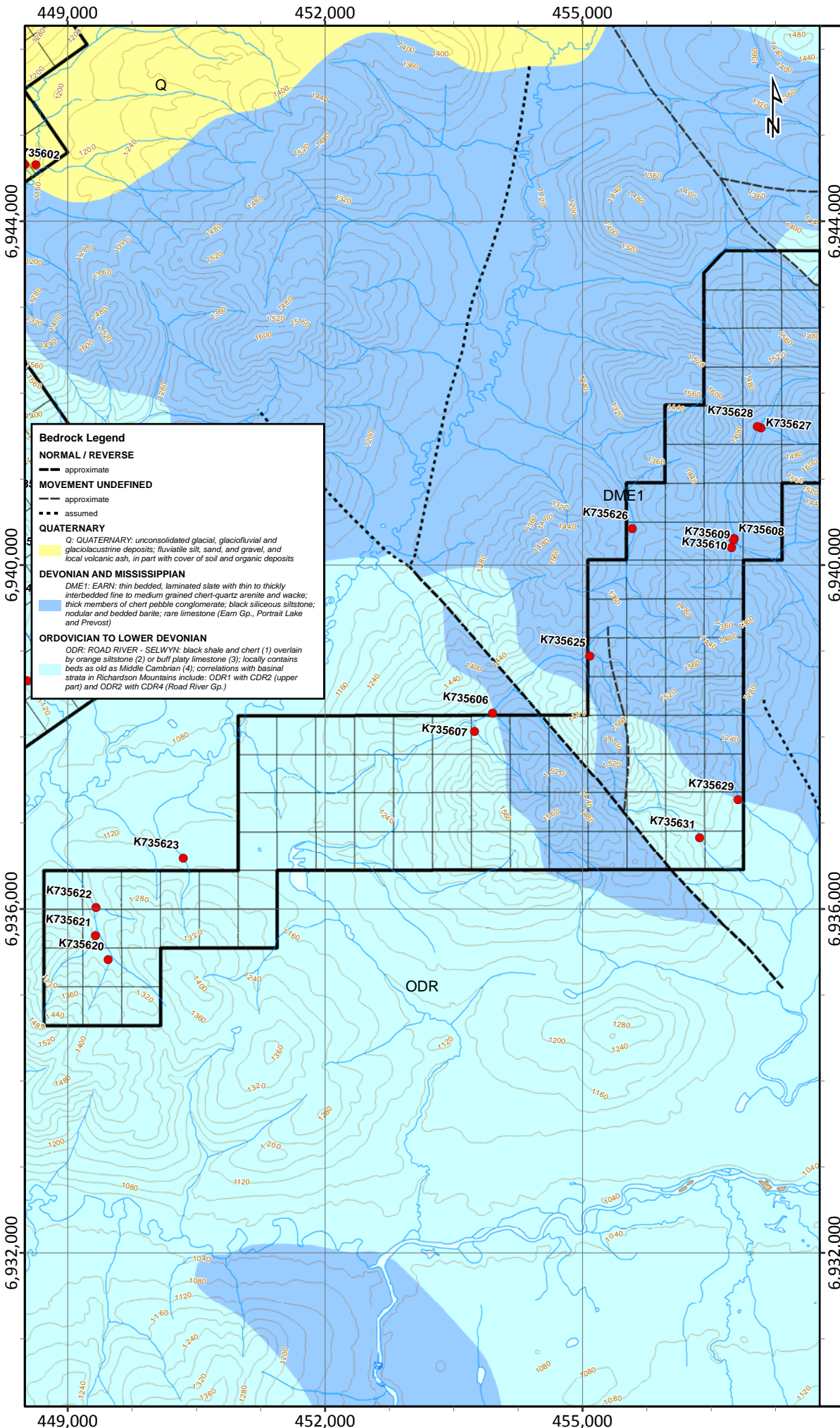
## 5.2 Property Geology

The property is underlain by Palaeozoic rocks comprised of Ordovician to Lower Devonian Road River Group black shale and chert (ORD) and Devonian to Mississippian Earn Group slate interbedded with chert-quartz arenite and wacke (DME1; Figure 5-2). The property has seen no documented historic exploration.

## 6.0 EXPLORATION

### 6.1 Exploration Program

The 2011 exploration program at JEL was carried out on August 29 and 30<sup>th</sup>. Golden Predator collected 15 silt samples from active stream beds. 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.



### Legend

- GPD Property Outline
- Quartz Claim
- Stream Sediment
- Elevation (40 m)
- Watercourse

**Bedrock Legend**

**NORMAL / REVERSE**

— approximate

**MOVEMENT UNDEFINED**

— approximate

- - - assumed

**QUATERNARY**

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

**DEVONIAN AND MISSISSIPPIAN**

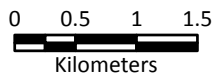
DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

**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 ODR2 (upper part) and ODR2 with ODR4 (Road River Gp.)



**JEL Property**  
Regional Geology  
with Sample Locations



Scale:	1:62,000	Map ID:	--
Draw Date:	2012/05/11	Rev. Date:	--
Version:	1	Figure:	S-2
Author:	E. O'Brien	Office:	Vancouver
Location:	150 km ENE of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	JEL 2011 Bedrock		

## 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 daylighted, in those situations sample spacing was more 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.

This stream sediment sampling program was completed in conjunction with seven other Golden Predator properties south of the North Canal Road in the Selwyn Basin. Because the geology is fairly similar for all projects, samples from the entire stream sediment dataset were grouped together and were ranked by percentile to determine statistical anomalies for the region. The dataset consists of 104 stream samples. For elements where there was sufficient statistical spread, five divisions were used to plot the geochemical data. These were: 0-75<sup>th</sup> percentile; 75-90; 90-95; 95-98; and 98-100<sup>th</sup> percentiles. When there was insufficient statistical spread, the last two divisions were combined so that the uppermost division plotted values in the 95-100<sup>th</sup> percentile.

### **6.3 Results**

#### **Stream Sediments**

Results from the stream sampling program outline one multi-element geochemical anomalous area. Several samples collected on the northeastern portion of the property are anomalous in copper (up to 289 ppm), molybdenum (up to 41.2 ppm), nickel (up to 590 ppm), antimony (up to 16.2 ppm), and thallium (up to 1.92 ppm; which is the highest in the regional dataset) and zinc (up to 9590 ppm, also the highest in the regional dataset). These anomalies might be attributed to The Portrait Lake Formation rocks mapped in the area (i.e. observed in the nearby Oro Minfile) but follow-up work is warranted.

### **7.0 CONCLUSIONS AND RECOMMENDATIONS**

The JEL property consists of 116 contiguous mineral claims covering an area of 2,424 hectares in Road River Group sediments located in the Selwyn Basin of eastern Yukon. The property is in the grassroots stages of exploration and has perspective Carlin-style gold systems.

The 2011 field program included the collection of 15 stream samples. The stream sediment program highlighted one area requiring follow-up from multi-element geochemical anomalies in several drainages.

Systematic follow-up of the stream geochemical anomalies should include additional stream samples up-gradient of the anomalies. 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 \$16,964.60 as summarized in Table 8-1.

**Table 8-1. 2011 Expenditures**

Expenditure	Units	Unit Cost	Per	Cost
Wages				
Golden Predator	1.4	\$2,700	day	\$3,780.00
Report Writing	2	\$500.00	day	\$1,000.00
Transportation				
Helicopter	4.7	\$1,100.00	hour	\$5,170.00
Fuel	4.7	\$300.00	hour	\$1,410.00
Consumables				
Camp, fixed wing, food, supplies	1.4	\$3,414	day	\$4,779.60
Sample Assays				
Stream Sediment Samples	15	\$55.00	sample	\$825.00
Total Expenditures				\$16,964.60

## 9.0 STATEMENT OF AUTHORSHIP

This Report titled "Assessment Report, 2011 Geochemical Sampling Program, JEL Project, Watson Lake Mining Division, Yukon Territory, Canada", and dated October 9<sup>th</sup>, 2012 was prepared and signed by the following author:



Erin O'Brien, M.Sc., P.Geol.  
Dated: October 9<sup>th</sup>, 2012  
Vancouver, British Columbia



## 10.0 REFERENCES

- Abbott, J.G., Gordey, S.P., & Tempelman-Kluit, D.J., 1986. Setting of stratiform, sediment hosted lead-zinc deposits in the Yukon and Northeastern British Columbia; Mineral Deposits of Northern Cordillera, ed. J.A. Morin, The Canadian Institute of Mining and Metallurgy, Special Volume 37, p. 1-18.
- Goldfarb, R., Hart, C., Miller, M., Miller, L., Farmer, G.L., and Groves, D., 2000. The Tintina Gold Belt: A Global Perspective. *In: The Tintina Gold Belt: Concepts, Exploration and Discoveries*, British Columbia and Yukon Chamber of Mines, Special Volume 2. 5-34.
- Gordey, S.P. and A.J. Makepeace (compilers), 2001. Bedrock Geology, Yukon Territory; Geological Survey of Canada. Open File 3754 and Exploration, Exploration and Geological Services Division, Yukon and Northern Affairs Canada, Open File 2001-1, scale 1: 1,000,000.
- Israel, S., Colpron, M. and T. Fraser, 2011. Overview of Yukon Geology.  
[www.geology.gov.yk.ca/pdf/Bedrock\\_Full\\_Overview.pdf](http://www.geology.gov.yk.ca/pdf/Bedrock_Full_Overview.pdf)
- Murphy, D., 1997. Geology of the McQuesten River Region, Northern McQuesten and Mayo Map Area, Yukon Territory (115P/14, 15, 16; 105M/13, 14). Bulletin 6, Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.

**Appendix 1**  
**Certificate of Author**

Erin Kathleen O'Brien  
11<sup>th</sup> Floor, 888 Dunsmuir  
Vancouver, British Columbia  
Canada V6C 3K4  
Telephone: 778-928-7232  
E-mail: eobrien@goldenpredator.com

### **CERTIFICATE OF AUTHOR**

I, Erin Kathleen O'Brien of 11<sup>th</sup> 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 JEL, Watson Lake Mining Division, Yukon, Canada; dated October 9<sup>th</sup>, 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.Geol.

Vancouver, British Columbia  
Dated this 9<sup>th</sup> Day of October 2012



**Appendix 2**  
**Analytical Summary**

Sample Descriptions

Sample No.	Sample Type	Sample Date 2011	Datum - Zone	Easting	Northing	Elevation (m)	Angularity	Color	Gravel	Sand	Silt	Clay	Organics	Slope Dir	Slope Angl	Stream Flow	Comments	Au (ppb)
K735606	SS	Aug-29	UTM83-9	453952	6938276	1256	SA	GYD	60	20	20			NW	3	3	sed rocks	3.9
K735607	SS	Aug-29	UTM83-9	453741	6938067	1251	SR	GYD	60	20	20			NW	3	3	sed rocks	6.1
K735608	SS	Aug-30	UTM83-9	456767	6940310	1193	SA	GYD	70	20	10			SE	2	3	sed rocks	2
K735609	SS	Aug-30	UTM83-9	456760	6940293	1196	SA	GYD	60	20	20			SE	2	3	sed rocks	1.2
K735610	SS	Aug-30	UTM83-9	456737	6940205	1202	SA	GYD	70	20	10			E	2	3	sed rocks, metasediments	2.6
K735620	SS	Aug-29	UTM83-9	449472	6935411	1220	SA	BR	50	30	10	10		NE	2	4	abundant small sst/siltstn chips and sand, sparse qtz	4.2
K735621	SS	Aug-29	UTM83-9	449324	6935692	1185	SA	BRD	60	30	10			NE	2	4	siltstn and sst, some quite course-almost cng, 2% qtz vn	5.2
K735622	SS	Aug-30	UTM83-9	449329	6936021	1156	SA	BR	70	20	10			W	2	4	steeper, fast flow, siltstn, sst, shales. Some rounded cobbles of fsp porph granite	2
K735623	SS	Aug-29	UTM83-9	450347	6936591	1138	SR	BK	30	40	20	10		N	2	4	abundant fines, black carbonaceous	1.9
K735625	SS	Aug-30	UTM83-9	455086	6938943	1298	SA	GYD	70	20	10			NW	1	3	sed rocks	3
K735626	SS	Aug-30	UTM83-9	455580	6940423	1255	SA	GYD	70	20	10			W	2	3	sed rocks, metasediments, Quartz	2.1
K735627	SS	Aug-30	UTM83-9	457078	6941592	1311	SA	GYD	70	20	10			W	2	4	irregular platy siltstone. Few fines. 3% rusty qtz fragments	1.7
K735628	SS	Aug-30	UTM83-9	457037	6941609	1306	SA	GYD	60	30	10			S	2	4	siltstone with 4% qtz cobbles. Long cutline at 130 S of above samples	2
K735629	SS	Aug-30	UTM83-9	456815	6937270	1135	SR	BR	50	30	20			SE	2	4	siltstone, fg sst, 3% qtz fragments	3.6
K735631	SS	Aug-30	UTM83-9	456365	6936832	1153	SR	BR	50	30	20			SE	2	4	sample taken upstream of small slump that flows into the creek. Siltstone and abundant orange lim fragments. Also large porph granite boulders, rounded (sparse, glacial?).	2.9

Stream Sediment (SS) 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		
	dry	1
	stagnant	2
	slow	3
	moderate	4
	fast	5

**Appendix 3**  
**Assay Certificates**



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLDEN PREDATOR CANADA CORP.  
888 DUNSMUIR STREET  
11TH FLOOR  
VANCOUVER BC V6C 3K4

Page: 1  
Finalized Date: 6-NOV-2011  
Account: GOPRED

**CERTIFICATE WH11177865**

Project: Selwyn  
P.O. No.: GPD2011SELWYN007  
This report is for 77 Stream Sediment samples submitted to our lab in Whitehorse, YT, Canada on 2-SEP-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-21d	Sample logging - ClientBarCode Dup
SPL-34	Pulp Splitting Charge
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with 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.  
ATTN: JACK COTE  
888 DUNSMUIR STREET  
11TH FLOOR  
VANCOUVER BC V6C 3K4

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



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GOLDEN PREDATOR CANADA CORP.  
 888 DUNSMUIR STREET  
 11TH FLOOR  
 VANCOUVER BC V6C 3K4

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 Finalized Date: 6-NOV-2011  
 Account: GOPRED

Project: Selwyn

**CERTIFICATE OF ANALYSIS WH11177865**

Sample Description	Method Analyte Units LOR	WEI-21	Au-ST44	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
K735469		5.76	0.0042	2.96	0.84	35.5	<0.2	<10	1110	0.92	0.19	0.49	23.3	20.0	31.6	34
K735470		6.66	0.0044	0.87	0.91	20.3	<0.2	<10	1220	0.64	0.15	0.47	8.32	20.9	10.3	22
K735471		6.74	0.0037	0.45	0.92	17.3	<0.2	<10	450	0.66	0.14	0.35	2.33	22.3	11.4	22
K735472		7.18	0.0037	0.50	0.92	13.1	<0.2	<10	570	0.67	0.14	0.44	2.95	21.5	10.3	22
K735473		6.00	0.0037	1.91	0.83	33.8	<0.2	<10	1110	0.81	0.16	0.69	17.75	16.25	9.0	39
K735474		6.20	0.0034	0.83	0.98	23.3	<0.2	<10	640	0.78	0.16	0.52	9.31	15.20	9.0	21
K735475		5.58	0.0015	1.98	0.70	27.5	<0.2	<10	510	0.97	0.16	0.90	16.55	15.15	10.8	32
K735476		6.40	0.0044	2.17	0.96	310	<0.2	<10	810	1.11	0.15	0.35	12.20	13.00	24.0	67
K735477		6.08	0.0059	0.34	1.54	30.1	<0.2	<10	610	1.61	0.17	0.33	7.56	27.9	28.6	23
K735481		6.48	0.0056	0.73	1.24	13.0	<0.2	<10	670	0.67	0.14	0.58	3.88	25.7	8.7	23
K735479		6.74	0.0039	0.88	0.91	18.8	<0.2	<10	720	0.69	0.14	0.43	3.34	18.40	9.2	24
K735480		0.12	0.0326	0.11	1.21	46.7	0.2	10	110	0.21	0.09	1.35	0.37	11.40	6.8	28
K735478		6.82	0.0210	0.40	1.13	17.4	<0.2	<10	580	0.87	0.17	0.36	3.84	22.8	10.7	27
K735482		6.12	0.0071	0.80	1.17	32.0	<0.2	<10	970	1.43	0.20	0.45	17.15	18.50	29.1	26
K735483		7.64	0.0048	0.63	1.17	20.5	<0.2	<10	420	1.04	0.23	0.29	2.57	32.9	11.6	20
K735484		7.32	0.0056	1.62	0.96	27.8	<0.2	<10	610	0.87	0.22	0.38	5.26	16.45	9.4	25
K735485		5.94	0.0043	0.97	1.02	21.6	<0.2	<10	730	0.91	0.25	0.38	2.80	17.40	11.8	21
K735486		6.40	0.0039	0.35	0.75	16.2	<0.2	<10	550	0.64	0.18	0.52	1.88	21.2	10.9	18
K735487		7.14	0.0042	1.14	0.78	26.8	<0.2	<10	770	1.09	0.17	0.40	21.1	13.35	13.8	24
K735488		6.22	0.0042	0.67	1.36	24.7	<0.2	<10	550	1.16	0.21	0.24	15.25	22.9	42.8	23
K735489		5.88	0.0078	1.13	2.63	32.1	<0.2	<10	840	4.28	0.18	0.27	24.6	14.05	38.7	30
K735490		6.78	0.0039	0.90	0.84	21.3	<0.2	<10	880	1.16	0.19	0.36	7.92	11.80	9.5	26
K735491		6.72	0.0124	0.76	1.95	26.3	<0.2	<10	450	1.56	0.30	0.36	10.60	32.3	53.1	30
K735492		7.06	0.0037	0.47	1.00	23.0	<0.2	<10	740	0.75	0.19	0.41	3.38	26.7	22.9	24
K735493		8.44	0.0045	2.32	0.62	50.5	<0.2	<10	360	0.58	0.28	0.19	0.55	10.35	6.3	44
K735494		6.36	0.0077	0.65	1.03	22.5	<0.2	<10	500	0.73	0.22	0.45	2.66	22.4	13.0	23
K735495		0.14	0.0013	0.27	1.00	3.8	<0.2	<10	80	0.25	0.05	0.64	0.17	9.34	7.2	30
K735496		7.18	0.0063	0.73	0.71	24.6	<0.2	<10	430	0.58	0.17	0.23	1.08	21.7	8.5	19
K735497		7.54	0.0052	0.41	1.20	20.2	<0.2	<10	440	0.78	0.19	0.36	3.51	28.6	11.5	19
K735498		6.80	0.0055	0.64	1.33	29.2	<0.2	<10	640	0.70	0.18	0.42	2.27	26.3	10.6	19
K735499		7.62	0.0068	0.39	1.17	13.4	<0.2	<10	510	0.71	0.17	0.57	1.84	27.9	11.1	24
K735500		8.08	0.0067	0.48	1.31	14.9	<0.2	<10	790	0.78	0.17	0.52	5.73	22.2	10.5	25
K735586		8.28	0.0072	0.88	0.96	16.9	<0.2	<10	660	0.79	0.17	0.44	4.38	18.30	8.6	23
K735587		7.16	0.0053	0.68	0.99	19.8	<0.2	<10	1030	1.15	0.18	0.54	13.25	22.5	10.4	25
K735588		6.84	0.0047	0.96	1.12	24.6	<0.2	<10	840	0.93	0.22	0.47	8.28	23.4	11.3	25
K735589		6.52	0.0070	0.86	0.94	19.4	<0.2	<10	940	0.75	0.19	0.44	3.97	19.40	9.4	21
K735590		6.34	0.0042	1.17	1.10	14.9	<0.2	<10	800	0.93	0.15	0.63	9.79	25.8	12.6	36
K735591		6.42	0.0057	0.75	1.03	18.9	<0.2	<10	1130	0.77	0.18	0.63	7.88	23.2	10.9	26
K735592		6.98	0.0065	1.40	1.13	14.1	<0.2	<10	1040	0.77	0.13	0.32	4.05	15.30	9.7	17
K735593		6.66	0.0077	0.63	1.58	21.8	<0.2	<10	560	1.34	0.23	0.36	6.19	24.8	17.5	28

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
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To: GOLDEN PREDATOR CANADA CORP.  
 888 DUNSMUIR STREET  
 11TH FLOOR  
 VANCOUVER BC V6C 3K4

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**CERTIFICATE OF ANALYSIS WH11177865**

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 ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		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
K735469		1.31	205	3.25	2.89	0.10	0.02	0.69	0.036	0.13	11.1	7.7	0.22	2250	21.5	0.01
K735470		0.98	80.6	2.68	2.82	0.07	0.04	0.27	0.031	0.11	10.0	10.6	0.27	921	15.10	0.01
K735471		1.09	65.1	2.74	3.45	0.05	0.02	0.11	0.030	0.11	10.8	15.9	0.29	1200	7.64	<0.01
K735472		0.94	58.0	2.31	2.87	0.05	0.03	0.11	0.028	0.11	10.3	13.5	0.27	781	5.63	<0.01
K735473		0.87	131.0	2.79	3.17	0.07	0.02	0.24	0.033	0.11	9.0	7.9	0.26	395	25.4	0.01
K735474		1.09	81.1	3.00	2.68	0.07	0.03	0.25	0.031	0.11	7.4	10.9	0.24	977	13.10	0.01
K735475		0.89	112.0	2.57	2.47	0.06	0.02	0.41	0.035	0.12	8.2	4.8	0.36	1480	23.3	0.01
K735476		0.86	177.5	10.45	3.27	0.11	0.04	0.31	0.046	0.10	7.3	5.7	0.13	2170	57.2	0.01
K735477		3.15	127.5	4.34	3.95	0.06	0.04	0.21	0.037	0.14	12.1	18.8	0.32	3630	7.17	<0.01
K735481		1.18	72.3	2.85	3.36	0.06	0.04	0.25	0.029	0.13	11.9	17.4	0.39	522	5.03	0.01
K735479		1.39	82.8	2.93	3.16	0.06	0.02	0.22	0.029	0.13	8.6	11.9	0.36	796	8.19	0.01
K735480		0.45	47.1	2.96	4.27	0.07	0.29	0.34	0.019	0.10	5.3	8.2	0.57	412	9.43	0.07
K735478		1.91	78.3	3.23	4.17	0.05	0.02	0.20	0.035	0.14	10.6	17.2	0.44	1220	5.45	0.01
K735482		1.74	245	4.29	3.37	0.07	0.03	0.39	0.045	0.13	9.0	14.1	0.28	7650	19.00	0.01
K735483		2.47	81.3	3.35	4.25	0.07	0.04	0.22	0.036	0.13	17.9	20.8	0.38	1340	7.24	<0.01
K735484		1.07	105.0	3.49	3.43	0.06	0.02	0.62	0.041	0.13	8.7	8.3	0.24	763	16.35	0.01
K735485		1.51	101.0	3.58	3.34	0.05	0.04	0.37	0.037	0.12	8.7	14.2	0.28	838	12.25	<0.01
K735486		0.84	57.1	2.71	2.62	0.06	0.02	0.16	0.029	0.11	10.9	9.9	0.22	795	5.32	<0.01
K735487		0.87	111.5	3.19	2.90	0.05	0.02	0.45	0.036	0.13	7.0	8.4	0.19	5670	13.35	0.01
K735488		1.08	118.0	4.04	3.92	0.06	0.04	0.29	0.044	0.13	10.1	13.8	0.29	7200	12.40	<0.01
K735489		0.95	356	2.94	3.19	0.06	0.06	0.48	0.043	0.12	8.5	22.4	0.13	12050	8.78	0.01
K735490		1.02	111.0	2.75	2.92	0.05	0.04	0.43	0.036	0.13	6.8	8.0	0.16	2270	7.30	0.01
K735491		1.69	275	5.25	5.11	0.10	0.04	0.34	0.061	0.19	13.7	23.8	0.54	2520	12.70	0.01
K735492		0.88	98.4	3.84	3.60	0.05	0.02	0.20	0.036	0.12	13.3	11.8	0.37	1720	6.63	0.01
K735493		0.66	111.0	7.42	4.07	0.08	0.02	0.62	0.057	0.23	5.9	4.3	0.11	606	16.70	0.01
K735494		0.91	82.1	3.46	3.27	0.05	0.02	0.29	0.038	0.11	10.6	12.7	0.26	908	8.40	0.01
K735495		0.31	21.6	2.04	4.21	0.07	0.24	0.03	0.016	0.06	4.4	8.0	0.46	311	4.23	0.04
K735496		1.40	63.8	2.46	2.63	<0.05	0.02	0.29	0.030	0.10	11.6	9.4	0.19	819	5.65	<0.01
K735497		6.92	67.1	2.96	3.31	0.06	0.03	0.21	0.030	0.12	14.6	25.5	0.41	1460	4.56	<0.01
K735498		3.84	57.4	3.44	3.67	0.06	0.06	0.35	0.032	0.12	13.5	23.6	0.35	1520	4.55	<0.01
K735499		1.40	70.7	3.28	3.88	0.05	0.03	0.15	0.034	0.14	14.4	15.9	0.41	575	4.30	0.01
K735500		1.40	108.5	3.10	3.75	0.05	0.04	0.25	0.035	0.14	10.6	15.4	0.37	620	5.35	0.01
K735586		1.00	72.6	2.58	2.97	0.05	0.02	0.30	0.030	0.13	8.9	11.5	0.27	411	8.56	0.01
K735587		1.39	77.0	2.98	3.50	0.05	0.03	0.22	0.030	0.11	11.1	11.9	0.29	1320	11.60	0.01
K735588		1.29	80.8	3.19	3.43	0.06	0.04	0.21	0.030	0.11	11.1	13.8	0.29	1150	17.00	0.01
K735589		1.25	83.3	3.12	3.06	0.05	0.03	0.26	0.036	0.14	9.3	9.8	0.29	691	8.13	0.01
K735590		1.23	118.0	3.04	3.67	0.06	0.03	0.49	0.044	0.14	12.9	12.0	0.38	594	7.70	0.01
K735591		1.16	82.8	3.02	3.07	0.05	0.03	0.37	0.042	0.13	11.8	13.6	0.29	510	11.15	0.01
K735592		1.27	58.5	2.58	3.15	<0.05	0.02	0.35	0.025	0.08	6.9	13.7	0.16	980	5.65	0.01
K735593		1.56	122.5	4.47	4.35	0.06	0.05	0.18	0.044	0.14	12.4	21.1	0.34	1240	6.37	<0.01

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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th 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	0.2
K735469		0.11	312	2150	14.3	10.9	0.007	0.24	8.69	3.3	11.1	0.5	137.0	<0.01	0.20	1.1
K735470		0.15	130.5	1720	11.9	10.8	0.006	0.09	5.75	2.6	4.7	0.4	90.4	<0.01	0.11	1.4
K735471		0.22	62.9	1350	11.3	11.6	0.006	0.05	3.58	2.2	2.6	0.4	61.4	<0.01	0.11	1.3
K735472		0.20	54.6	1830	10.7	10.5	0.005	0.04	2.80	2.1	1.8	0.3	69.2	<0.01	0.08	1.4
K735473		0.14	242	1850	12.6	10.8	0.008	0.12	12.95	2.7	8.4	0.5	113.0	<0.01	0.15	0.9
K735474		0.19	248	1620	13.5	12.0	0.006	0.09	4.67	2.4	4.6	0.3	74.1	<0.01	0.14	1.0
K735475		0.12	187.0	2040	16.4	9.5	0.029	0.08	8.86	3.3	6.1	0.4	122.5	<0.01	0.14	1.1
K735476		0.15	154.0	>10000	20.2	8.9	0.012	0.30	17.55	3.4	19.0	0.3	110.5	<0.01	0.19	1.5
K735477		0.31	238	2340	12.0	15.3	0.003	0.10	2.12	3.5	3.2	0.4	60.8	<0.01	0.15	2.0
K735481		0.22	72.3	2250	10.9	11.4	0.005	0.04	2.29	3.2	1.8	0.4	83.6	<0.01	0.06	1.8
K735479		0.15	73.5	1800	11.8	11.5	0.005	0.10	3.27	2.3	3.5	0.3	79.1	<0.01	0.10	1.3
K735480		0.23	34.0	720	2.9	4.4	0.003	0.12	0.84	4.8	1.0	1.5	42.3	<0.01	0.07	1.1
K735478		0.23	95.4	1670	12.0	12.8	0.004	0.06	2.19	2.9	3.1	0.4	57.8	<0.01	0.10	1.4
K735482		0.16	415	1980	15.3	8.8	0.006	0.18	5.59	4.3	4.8	0.3	95.5	<0.01	0.14	2.0
K735483		0.22	88.7	1410	15.4	12.7	0.003	0.11	2.32	2.8	3.1	0.4	90.5	<0.01	0.17	2.0
K735484		0.17	76.2	1810	17.1	9.0	0.006	0.10	6.96	3.0	6.1	0.4	80.7	<0.01	0.12	1.2
K735485		0.19	73.0	1510	17.5	10.3	0.004	0.12	4.62	2.6	3.6	0.4	70.4	<0.01	0.16	0.9
K735486		0.16	50.3	2260	13.2	8.0	0.003	0.05	2.68	2.4	2.6	0.3	84.3	<0.01	0.08	1.6
K735487		0.12	277	1790	13.1	8.0	0.006	0.24	5.33	2.5	4.7	0.3	103.0	<0.01	0.14	1.2
K735488		0.17	244	1700	16.6	9.8	0.003	0.19	3.53	3.3	4.4	0.3	67.3	<0.01	0.11	1.8
K735489		0.15	583	3260	13.5	8.2	0.004	0.26	3.08	3.3	6.6	0.3	82.7	<0.01	0.16	1.3
K735490		0.12	193.0	1810	14.5	8.8	0.005	0.22	3.09	2.3	4.3	0.3	88.1	<0.01	0.15	0.9
K735491		0.19	197.0	1520	21.9	12.0	0.003	0.23	4.01	6.5	5.2	0.4	95.4	<0.01	0.16	3.8
K735492		0.34	83.7	1800	19.7	7.7	0.006	0.05	3.50	4.4	3.5	0.3	71.5	<0.01	0.09	3.8
K735493		0.11	29.0	4070	35.9	9.7	0.011	0.77	7.96	3.4	11.5	0.4	199.5	<0.01	0.28	1.5
K735494		0.23	63.8	1890	18.1	8.7	0.003	0.11	3.63	2.5	3.0	0.3	82.1	<0.01	0.11	0.9
K735495		0.21	21.0	480	2.2	2.8	0.001	0.05	0.34	4.2	1.0	0.4	28.9	<0.01	0.04	0.9
K735496		0.14	80.9	1160	12.0	8.0	0.003	0.15	2.15	1.9	2.8	0.3	93.2	<0.01	0.14	1.1
K735497		0.21	93.1	1280	12.8	11.1	0.004	0.04	2.11	2.9	1.6	0.3	65.8	<0.01	0.10	2.2
K735498		0.21	53.1	1780	12.1	13.3	0.005	0.05	1.68	3.1	2.5	0.3	73.9	<0.01	0.08	1.8
K735499		0.24	39.8	1810	12.3	10.5	0.004	0.05	2.07	3.5	2.0	0.4	68.2	<0.01	0.07	1.8
K735500		0.21	78.0	2010	11.9	11.0	0.003	0.05	2.33	3.5	2.2	0.4	79.0	<0.01	0.09	1.6
K735586		0.17	80.3	1680	13.8	8.5	0.003	0.13	3.25	2.9	2.8	0.3	94.0	<0.01	0.11	1.5
K735587		0.21	193.5	1780	13.0	10.5	0.008	0.09	4.32	2.5	3.5	0.4	79.0	<0.01	0.10	1.1
K735588		0.23	129.0	1760	14.7	10.2	0.002	0.07	4.24	2.8	3.5	0.4	77.2	<0.01	0.08	1.2
K735589		0.17	52.6	1970	14.7	9.6	0.004	0.15	3.17	3.0	3.1	0.3	103.0	<0.01	0.10	1.4
K735590		0.19	125.0	2170	13.2	8.4	0.005	0.12	4.20	4.2	4.5	0.4	130.0	<0.01	0.12	1.8
K735591		0.20	121.0	2310	13.5	9.5	0.005	0.11	3.95	3.9	3.4	0.6	114.5	<0.01	0.10	1.6
K735592		0.16	63.2	2040	8.7	10.1	0.007	0.09	1.85	1.5	2.8	0.3	52.2	<0.01	0.04	0.3
K735593		0.29	135.0	1940	16.8	10.8	0.001	0.08	2.78	4.3	2.9	0.4	79.4	<0.01	0.10	1.5



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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 ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
K735469		<0.005	0.76	25.5	256	0.12	28.3	1700	0.9	
K735470		0.007	0.49	10.35	166	0.09	17.75	1260	1.1	
K735471		0.009	0.22	3.17	115	0.11	10.70	307	1.0	
K735472		0.007	0.20	5.36	96	0.15	11.80	367	0.8	
K735473		0.007	0.78	9.01	390	0.13	24.5	3510	0.9	
K735474		0.007	0.31	6.49	163	0.09	15.15	3410	1.2	
K735475		<0.005	0.60	12.00	285	0.13	27.5	1920	0.6	
K735476		0.008	0.55	31.9	561	0.17	26.1	1120	1.2	
K735477		0.011	0.34	2.75	112	0.08	19.55	753	1.0	
K735481		0.007	0.22	3.78	100	1.62	16.95	437	1.3	
K735479		0.008	0.28	5.25	129	0.07	14.45	394	0.7	
K735480		0.107	0.60	0.50	51	0.70	7.69	54	7.7	
K735478		0.016	0.18	3.94	94	0.08	12.50	643	0.6	
K735482		0.006	0.31	8.29	161	0.13	30.3	1340	1.3	
K735483		0.008	0.18	3.82	67	0.09	11.35	364	1.2	
K735484		0.007	0.30	6.05	252	0.15	17.35	613	0.6	
K735485		0.007	0.22	7.39	142	0.12	23.8	469	1.1	
K735486		0.006	0.15	2.22	80	0.12	13.60	272	0.7	
K735487		0.005	0.28	5.80	160	0.10	19.05	982	1.0	
K735488		0.006	0.26	4.64	115	0.11	26.5	691	1.3	
K735489		0.005	0.35	5.01	191	0.11	52.4	1210	2.3	
K735490		<0.005	0.20	6.22	131	0.10	19.00	596	1.1	
K735491		0.007	0.32	11.40	89	0.08	42.2	1230	1.5	
K735492		0.014	0.19	4.10	84	0.22	15.10	373	1.7	
K735493		<0.005	0.30	6.84	289	0.19	17.50	121	1.1	
K735494		0.008	0.19	4.43	113	0.35	15.05	380	0.7	
K735495		0.102	0.04	0.26	45	10.75	6.65	35	7.1	
K735496		0.006	0.14	2.24	73	0.08	8.83	233	0.7	
K735497		0.007	0.16	2.96	53	0.08	11.85	366	1.1	
K735498		0.005	0.20	2.42	68	0.08	12.40	250	1.7	
K735499		0.007	0.15	1.50	76	0.08	12.90	233	1.0	
K735500		0.005	0.20	3.10	98	0.13	17.85	635	1.1	
K735586		0.005	0.27	3.11	101	0.13	14.50	524	0.9	
K735587		0.008	0.40	5.09	162	0.12	14.55	2730	0.8	
K735588		0.008	0.34	10.15	137	0.11	17.30	1160	1.2	
K735589		0.005	0.20	4.71	97	0.07	16.10	327	0.9	
K735590		0.005	0.24	4.52	146	0.10	24.9	919	1.0	
K735591		0.005	0.34	4.30	120	0.11	20.8	697	0.9	
K735592		0.010	0.20	5.25	88	0.08	16.10	389	0.6	
K735593		0.008	0.23	3.39	100	0.09	23.4	751	1.2	



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ST44	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
K735594		7.62	0.0093	0.51	1.64	9.8	<0.2	<10	570	0.92	0.18	0.67	2.23	32.4	13.8	28
K735595		<0.02	0.0091	0.44	1.60	9.3	<0.2	<10	560	0.92	0.19	0.65	2.03	33.7	13.0	27
K735596		6.82	0.0034	0.45	0.76	25.7	<0.2	<10	960	0.50	0.16	0.70	2.66	32.1	8.1	16
K735597		7.30	0.0026	0.80	0.88	52.4	<0.2	<10	1050	1.19	0.26	0.99	6.35	30.9	8.0	27
K735598		6.94	0.0040	0.67	0.85	44.1	<0.2	<10	890	0.70	0.17	0.73	4.07	31.9	8.4	17
K735599		7.50	0.0036	0.69	0.96	38.1	<0.2	<10	890	0.63	0.19	0.81	4.09	37.8	9.6	19
K735600		6.52	0.0059	1.32	0.64	35.2	<0.2	<10	770	0.52	0.22	0.89	7.12	38.3	8.2	14
K735601		6.32	0.0009	0.63	0.73	19.1	<0.2	<10	540	0.46	0.13	2.51	4.67	26.9	6.7	17
K735602		6.84	0.0030	0.93	0.99	28.3	<0.2	<10	1090	0.67	0.22	1.17	5.89	34.0	11.6	26
K735603		6.38	0.0010	0.71	0.85	24.3	<0.2	<10	1010	0.55	0.16	1.81	16.00	33.4	13.8	22
K735604		7.88	0.0029	0.58	0.91	20.1	<0.2	<10	980	0.53	0.19	1.37	4.62	40.3	9.8	20
K735605		6.58	0.0023	0.59	0.93	18.3	<0.2	<10	970	0.46	0.18	1.02	3.95	36.0	7.1	19
K735606		6.68	0.0039	0.71	0.94	21.2	<0.2	<10	1450	0.56	0.21	0.75	4.95	27.7	8.2	18
K735607		6.02	0.0061	0.97	0.90	21.1	<0.2	<10	1300	0.72	0.20	1.50	5.91	28.7	9.8	19
K735608		6.74	0.0020	0.69	1.27	39.7	<0.2	<10	1590	1.28	0.22	0.81	110.0	27.2	88.2	22
K735609		6.72	0.0012	0.73	0.82	17.6	<0.2	<10	970	0.48	0.27	0.74	7.52	28.9	9.5	19
K735610		6.06	0.0026	0.84	0.78	45.0	<0.2	<10	1580	0.71	0.22	1.17	7.32	34.1	15.3	20
K735611		6.06	0.0040	0.82	0.95	22.7	<0.2	<10	990	0.56	0.18	0.87	6.06	29.6	10.3	18
K735612		5.74	0.0039	0.94	0.99	39.6	<0.2	<10	1120	0.59	0.22	0.66	5.80	32.2	11.8	20
K735613		5.50	0.0033	0.72	0.90	28.3	<0.2	<10	1080	0.57	0.20	0.80	5.19	31.1	11.5	19
K735614		7.24	0.0027	0.64	0.87	30.1	<0.2	<10	1210	0.53	0.20	0.77	3.26	31.1	7.1	18
K735615		0.12	>0.1000	12.80	1.09	4070	2.0	<10	80	0.35	4.34	2.47	7.45	20.8	20.1	82
K735616		7.26	0.0036	0.70	1.00	37.5	<0.2	<10	630	0.71	0.21	0.57	5.79	30.8	11.6	19
K735617		5.78	0.0059	1.49	2.06	98.9	<0.2	<10	1230	1.79	0.24	0.74	54.2	29.7	113.0	22
K735618		5.82	0.0074	1.80	1.14	81.9	<0.2	<10	620	0.84	0.22	0.82	7.54	32.3	9.2	17
K735619		6.16	0.0079	1.18	1.23	27.2	<0.2	<10	1000	0.67	0.20	0.79	6.07	27.0	10.1	19
K735620		5.90	0.0042	1.52	0.96	30.0	<0.2	<10	1200	0.73	0.19	0.79	6.65	21.8	7.3	27
K735621		7.36	0.0052	0.98	0.90	32.1	<0.2	<10	790	0.85	0.20	0.83	5.40	25.8	18.4	23
K735622		6.74	0.0020	1.20	0.77	43.9	<0.2	<10	1340	0.74	0.17	1.27	7.49	18.30	6.3	31
K735623		7.74	0.0019	2.08	0.97	33.1	<0.2	<10	2200	0.86	0.18	1.19	11.15	17.80	5.1	55
K735625		6.56	0.0030	1.35	0.71	39.9	<0.2	<10	1390	0.58	0.23	1.37	7.20	36.8	16.2	15
K735626		6.44	0.0021	0.87	0.86	21.7	<0.2	<10	1150	0.48	0.23	0.95	7.59	32.3	9.1	21
K735627		6.14	0.0017	1.68	1.85	56.1	<0.2	<10	1410	0.85	0.18	0.44	55.5	27.3	34.5	40
K735628		6.82	0.0020	1.38	1.25	27.2	<0.2	<10	2080	0.93	0.18	0.85	62.8	33.5	25.1	22
K735629		9.62	0.0036	0.72	0.92	22.8	<0.2	<10	1300	0.66	0.20	1.43	5.99	36.6	9.2	29
K735630		<0.02	0.0034	0.72	0.90	24.7	<0.2	<10	1260	0.67	0.20	1.40	6.17	37.3	9.7	28
K735631		7.98	0.0029	0.97	0.81	29.3	<0.2	<10	1260	0.61	0.20	0.97	6.78	30.4	9.6	21



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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 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
K735594		1.75	70.3	3.30	4.96	0.08	0.06	0.21	0.048	0.16	17.3	24.6	0.48	415	2.85	0.01
K735595		1.57	66.4	3.25	4.68	0.06	0.05	0.19	0.036	0.16	17.6	23.3	0.47	378	2.73	<0.01
K735596		0.84	56.4	2.33	2.28	0.06	0.02	0.21	0.022	0.10	18.1	8.3	0.25	288	7.87	0.01
K735597		1.07	78.5	3.06	2.74	0.06	0.02	0.36	0.036	0.15	19.9	8.0	0.21	1080	12.00	0.01
K735598		1.14	79.0	2.65	2.37	0.06	0.02	0.20	0.030	0.11	19.4	10.5	0.26	358	12.00	0.01
K735599		1.37	54.7	2.48	2.72	0.06	0.02	0.19	0.028	0.12	21.8	11.7	0.31	813	7.35	0.01
K735600		0.76	137.5	2.78	1.96	0.07	0.02	1.06	0.037	0.10	24.3	6.8	0.37	228	42.4	0.01
K735601		1.02	66.6	2.00	2.25	0.08	0.05	0.17	0.022	0.15	15.2	9.1	0.78	220	10.20	<0.01
K735602		1.54	109.0	2.58	2.80	0.09	0.02	0.24	0.029	0.20	20.6	9.6	0.33	373	14.45	0.01
K735603		1.29	52.7	2.09	2.38	0.10	0.03	0.21	0.027	0.17	20.8	8.5	0.56	1360	15.00	0.01
K735604		1.06	64.2	2.28	2.75	0.08	0.03	0.18	0.023	0.14	23.7	11.1	0.40	378	9.61	0.01
K735605		0.96	56.6	2.32	2.75	0.08	0.04	0.24	0.026	0.14	20.3	11.8	0.42	229	9.95	0.01
K735606		1.31	79.6	2.46	2.49	0.06	0.03	0.28	0.027	0.13	16.8	11.5	0.30	174	8.61	0.01
K735607		1.49	140.0	2.82	2.46	0.09	0.02	0.41	0.030	0.18	17.3	8.6	0.43	233	16.80	0.01
K735608		1.61	149.0	4.39	1.94	0.10	0.05	0.16	0.029	0.12	16.1	6.9	0.21	3120	38.7	0.01
K735609		1.14	46.2	2.80	2.15	0.07	0.03	0.17	0.028	0.10	17.0	9.5	0.27	241	11.65	0.01
K735610		1.83	108.5	2.72	1.94	0.08	0.02	0.21	0.031	0.16	20.0	7.1	0.30	610	17.60	0.02
K735611		1.48	114.0	2.66	2.45	0.07	0.05	0.43	0.028	0.13	19.5	11.6	0.32	394	10.05	0.01
K735612		1.27	75.3	2.91	2.77	0.07	0.03	0.26	0.031	0.12	20.0	12.8	0.30	1600	12.40	0.01
K735613		1.20	70.5	2.81	2.51	0.07	0.02	0.27	0.026	0.12	18.1	10.5	0.32	463	8.12	0.01
K735614		1.14	69.5	2.39	2.45	0.07	0.03	0.21	0.027	0.12	19.1	10.3	0.31	256	7.54	0.01
K735615		0.99	323	6.02	4.03	0.06	0.40	1.63	0.541	0.19	10.3	7.1	1.22	918	11.25	0.05
K735616		1.34	79.3	2.94	2.57	0.07	0.03	0.25	0.031	0.11	18.9	10.6	0.24	626	9.91	0.01
K735617		2.32	224	5.13	2.88	0.09	0.08	0.53	0.038	0.19	18.7	11.6	0.23	7470	25.3	0.02
K735618		1.65	138.5	3.17	2.61	0.09	0.05	0.45	0.042	0.13	18.7	10.5	0.44	263	11.90	0.01
K735619		1.61	96.8	2.83	2.91	0.06	0.07	0.37	0.028	0.14	16.8	15.6	0.34	606	8.84	0.01
K735620		1.38	76.0	2.18	2.52	0.07	0.03	0.49	0.030	0.11	13.7	9.7	0.21	337	9.21	0.01
K735621		1.63	105.5	3.18	2.59	0.08	0.03	0.40	0.032	0.12	15.7	8.9	0.21	908	9.72	0.01
K735622		1.24	70.5	2.02	2.20	0.06	0.02	0.52	0.029	0.12	11.3	5.3	0.36	319	14.50	0.02
K735623		1.12	83.8	1.81	3.06	0.07	0.03	0.91	0.025	0.16	12.6	5.4	0.20	336	15.05	0.02
K735625		2.14	133.5	3.20	1.79	0.09	0.02	0.35	0.034	0.13	21.4	5.9	0.45	405	13.85	0.01
K735626		1.47	51.1	2.53	2.16	0.07	0.03	0.32	0.027	0.11	19.8	9.5	0.33	872	11.45	0.01
K735627		1.89	289	2.44	2.12	0.12	0.05	0.40	0.034	0.14	17.9	3.8	0.09	1260	41.2	0.02
K735628		1.93	166.5	2.73	1.98	0.11	0.07	0.36	0.035	0.12	20.6	5.7	0.16	711	20.7	0.02
K735629		1.22	82.8	2.24	2.53	0.09	0.02	0.23	0.027	0.18	22.2	8.5	0.31	244	11.05	0.01
K735630		1.26	86.8	2.25	2.66	0.09	0.02	0.25	0.027	0.17	21.7	8.8	0.31	248	11.45	0.02
K735631		1.50	89.9	2.65	2.29	0.07	0.02	0.30	0.034	0.13	17.6	8.1	0.25	212	12.95	0.02



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**CERTIFICATE OF ANALYSIS WH11177865**

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 ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
K735594		0.34	59.6	1980	12.8	14.6	0.004	0.06	1.46	4.5	2.8	0.5	83.6	<0.01	0.08	2.1
K735595		0.32	57.2	2020	13.0	14.2	0.004	0.06	1.42	4.2	2.6	0.5	85.6	<0.01	0.07	2.2
K735596		0.15	51.8	2810	12.9	7.5	0.003	0.03	4.57	2.6	2.3	0.3	113.0	<0.01	0.09	2.3
K735597		0.11	64.7	4350	21.6	11.1	0.007	0.12	6.92	3.3	4.0	0.4	273	<0.01	0.24	2.0
K735598		0.15	87.8	3220	13.5	8.3	0.003	0.07	10.70	3.0	3.6	0.3	147.0	<0.01	0.14	2.1
K735599		0.15	80.4	3640	13.3	9.8	0.006	0.04	7.22	2.6	2.9	0.3	131.0	<0.01	0.07	2.1
K735600		0.10	140.0	2050	16.8	7.5	0.002	0.05	13.00	3.0	5.3	0.3	120.5	<0.01	0.13	2.0
K735601		0.09	50.7	5140	10.8	8.1	0.016	0.29	4.87	2.8	5.4	0.2	224	<0.01	0.08	4.0
K735602		0.15	94.1	4600	15.7	13.2	0.008	0.04	9.08	3.0	5.2	0.3	136.0	<0.01	0.09	2.0
K735603		0.15	154.5	4840	15.5	11.5	0.019	0.07	8.61	2.9	4.8	0.3	177.0	<0.01	0.08	3.0
K735604		0.13	75.1	5460	16.7	10.5	0.006	0.03	6.28	2.9	2.9	0.3	169.5	<0.01	0.10	3.4
K735605		0.14	64.9	3900	15.3	11.4	0.006	0.05	5.04	2.6	3.1	0.3	157.0	<0.01	0.09	3.2
K735606		0.16	90.7	3260	14.9	10.2	0.005	0.07	4.49	2.4	3.1	0.3	142.0	<0.01	0.10	1.4
K735607		0.14	96.1	5270	16.7	11.5	0.011	0.08	6.41	3.7	5.2	0.4	262	0.02	0.12	2.1
K735608		0.22	590	3700	14.0	10.3	0.011	0.16	8.59	3.0	8.5	0.3	147.0	<0.01	0.14	2.5
K735609		0.23	172.5	2320	12.9	10.0	0.005	0.06	4.45	2.5	2.7	0.3	94.5	<0.01	0.07	2.1
K735610		0.11	173.0	4270	14.4	11.3	0.006	0.10	6.00	3.7	4.8	0.3	165.0	<0.01	0.12	2.9
K735611		0.15	122.0	3460	14.5	11.8	0.005	0.07	4.37	3.1	3.2	0.3	183.5	<0.01	0.09	2.1
K735612		0.18	119.5	2970	15.5	11.5	0.005	0.07	7.02	2.4	2.7	0.3	131.5	<0.01	0.12	1.4
K735613		0.18	93.9	3540	15.9	11.3	0.006	0.04	4.92	2.6	3.1	0.3	122.0	<0.01	0.09	1.8
K735614		0.16	59.7	3210	12.8	10.1	0.006	0.04	5.28	2.6	2.6	0.3	130.0	<0.01	0.08	1.9
K735615		0.08	73.8	620	691	8.1	0.006	2.43	146.5	6.8	2.3	4.9	102.5	<0.01	0.92	2.3
K735616		0.14	163.0	2610	14.9	9.9	0.003	0.09	6.56	2.1	3.2	0.3	116.5	<0.01	0.11	1.0
K735617		0.18	447	4380	20.4	13.3	0.005	0.29	14.25	3.9	5.6	0.3	213	<0.01	0.20	2.3
K735618		0.13	119.0	3150	15.0	10.1	0.010	0.08	13.25	3.7	4.9	0.3	148.0	<0.01	0.13	2.4
K735619		0.19	96.1	2750	13.0	14.7	0.007	0.05	5.31	3.0	3.2	0.3	141.5	<0.01	0.09	1.8
K735620		0.18	80.1	3320	13.5	11.3	0.006	0.05	6.00	2.3	3.3	0.4	127.5	<0.01	0.11	0.9
K735621		0.17	115.0	3780	14.0	10.3	0.005	0.06	6.05	3.5	3.0	0.4	141.0	<0.01	0.12	1.7
K735622		0.15	112.5	3650	13.5	9.5	0.012	0.07	6.27	2.9	3.9	0.4	160.0	<0.01	0.11	1.1
K735623		0.16	128.0	4480	12.0	13.4	0.007	0.09	9.21	2.8	5.3	0.5	162.0	<0.01	0.14	1.1
K735625		0.09	121.5	3900	17.0	9.4	0.011	0.12	7.00	4.1	5.4	0.3	244	<0.01	0.14	2.6
K735626		0.18	154.0	3350	13.7	11.0	0.004	0.05	5.28	2.2	3.1	0.3	114.0	<0.01	0.09	1.5
K735627		0.26	294	3670	16.6	11.4	0.010	0.27	16.20	2.7	14.8	0.5	176.5	<0.01	0.19	1.8
K735628		0.18	425	3510	14.9	13.0	0.010	0.19	9.54	3.6	8.6	0.4	204	<0.01	0.15	2.0
K735629		0.13	87.1	6040	13.5	11.4	0.010	0.05	6.32	3.1	4.5	0.4	222	<0.01	0.08	2.5
K735630		0.14	89.5	5850	13.8	11.4	0.011	0.05	6.64	3.1	4.7	0.4	218	<0.01	0.09	2.5
K735631		0.15	126.0	3740	15.0	10.5	0.007	0.08	6.18	3.2	4.1	0.3	188.0	<0.01	0.11	1.7



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Page: 3 - D  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 6-NOV-2011  
 Account: GOPRED

Project: Selwyn

**CERTIFICATE OF ANALYSIS WH11177865**

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 ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
K735594		0.009	0.16	2.01	65	0.07	21.0	322	1.6	
K735595		0.008	0.18	2.00	65	0.06	19.30	316	1.5	
K735596		0.005	0.19	2.99	82	0.15	14.05	369	0.8	
K735597		<0.005	0.33	8.66	182	0.13	21.3	464	0.9	
K735598		0.005	0.24	3.89	96	0.76	19.65	649	0.8	
K735599		0.006	0.22	4.55	87	1.19	17.55	554	0.9	
K735600		<0.005	0.61	6.30	110	0.14	18.45	871	0.8	
K735601		0.006	0.24	3.73	119	0.11	18.95	580	4.9	
K735602		0.007	0.42	4.75	190	0.17	19.00	608	0.7	
K735603		0.007	0.47	5.21	192	0.13	18.35	2590	1.8	
K735604		0.007	0.28	3.86	124	0.48	19.05	1030	1.5	
K735605		0.007	0.30	4.74	107	0.10	15.25	531	1.6	
K735606		0.007	0.31	3.70	101	0.23	14.55	552	0.7	
K735607		0.006	0.37	6.30	122	0.13	22.3	629	0.7	
K735608		0.008	1.21	7.47	254	5.52	39.4	9590	1.8	
K735609		0.008	0.47	2.84	134	1.05	12.75	1670	1.1	
K735610		0.005	0.40	5.22	117	0.11	18.80	1230	0.8	
K735611		0.006	0.33	5.44	87	0.10	16.40	805	1.7	
K735612		0.007	0.29	3.74	96	0.17	14.20	607	0.7	
K735613		0.007	0.29	4.29	97	1.44	14.95	564	0.7	
K735614		0.007	0.24	3.22	93	0.15	14.85	390	0.9	
K735615		0.027	0.52	0.89	44	9.86	7.21	1180	12.3	1.45
K735616		0.006	0.28	6.54	95	0.16	17.90	1700	0.8	
K735617		0.006	0.53	7.83	120	0.19	49.1	3060	2.3	
K735618		<0.005	0.31	11.90	82	0.11	17.60	1060	1.6	
K735619		0.006	0.33	3.75	112	0.13	13.65	723	2.4	
K735620		0.006	0.45	4.60	205	0.59	18.80	620	0.7	
K735621		0.006	0.31	6.08	172	0.16	21.1	770	0.8	
K735622		0.006	0.44	7.52	255	0.16	21.9	1070	0.7	
K735623		0.008	0.64	8.43	539	0.18	22.0	1430	1.0	
K735625		<0.005	0.27	4.77	79	0.08	18.75	1200	0.7	
K735626		0.007	0.50	3.56	127	0.41	16.05	1090	1.0	
K735627		0.013	1.92	17.80	509	0.24	25.9	3850	1.6	
K735628		0.007	1.06	10.45	233	0.13	54.9	4520	2.2	
K735629		0.008	0.34	4.89	163	0.23	21.6	797	1.1	
K735630		0.008	0.35	4.99	163	0.19	22.1	785	1.0	
K735631		0.006	0.35	3.95	107	0.20	18.00	996	0.8	



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 6-NOV-2011  
Account: GOPRED

Project: Selwyn

**CERTIFICATE OF ANALYSIS WH11177865**

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

**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

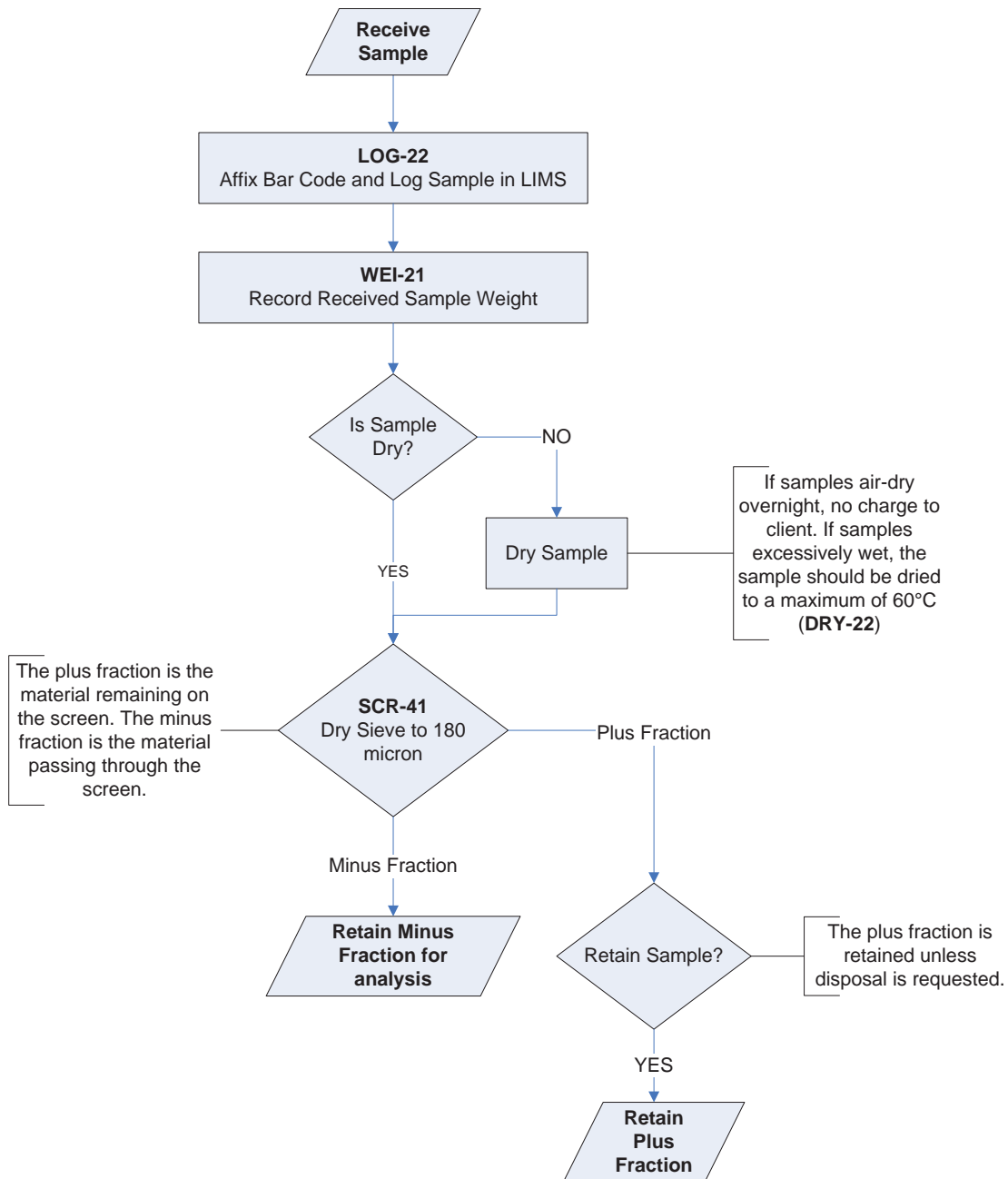
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## Sample Preparation Package

### Sample Preparation Flowchart Package -PREP- 41



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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

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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

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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.

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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, AuTe<sub>2</sub>.

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.

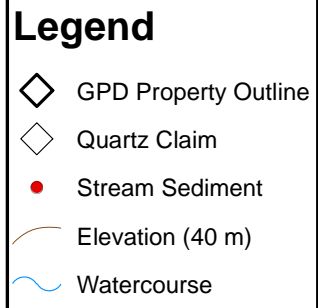
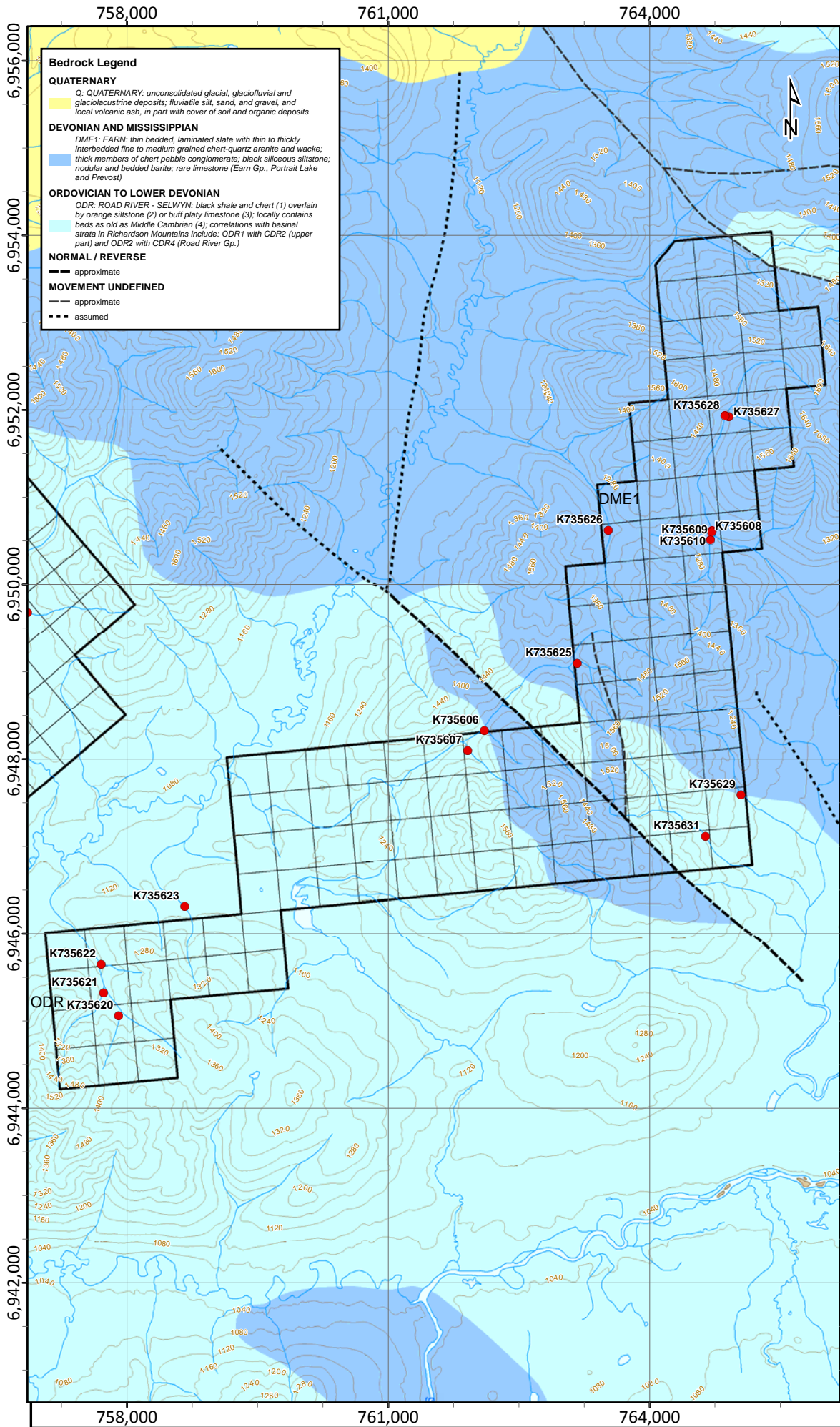
Method	Element	Sample Mass	Units	Lower Limit	Upper Limit	Default Overlimit Method
Au-TL43m	Gold	25 g	ppm	0.005	2	Au-OG43
Au-TL44m	Gold	50 g	ppm	0.005	2	Au-OG44

Revision 01.00  
Jun 13, 2007

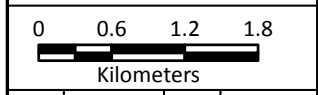
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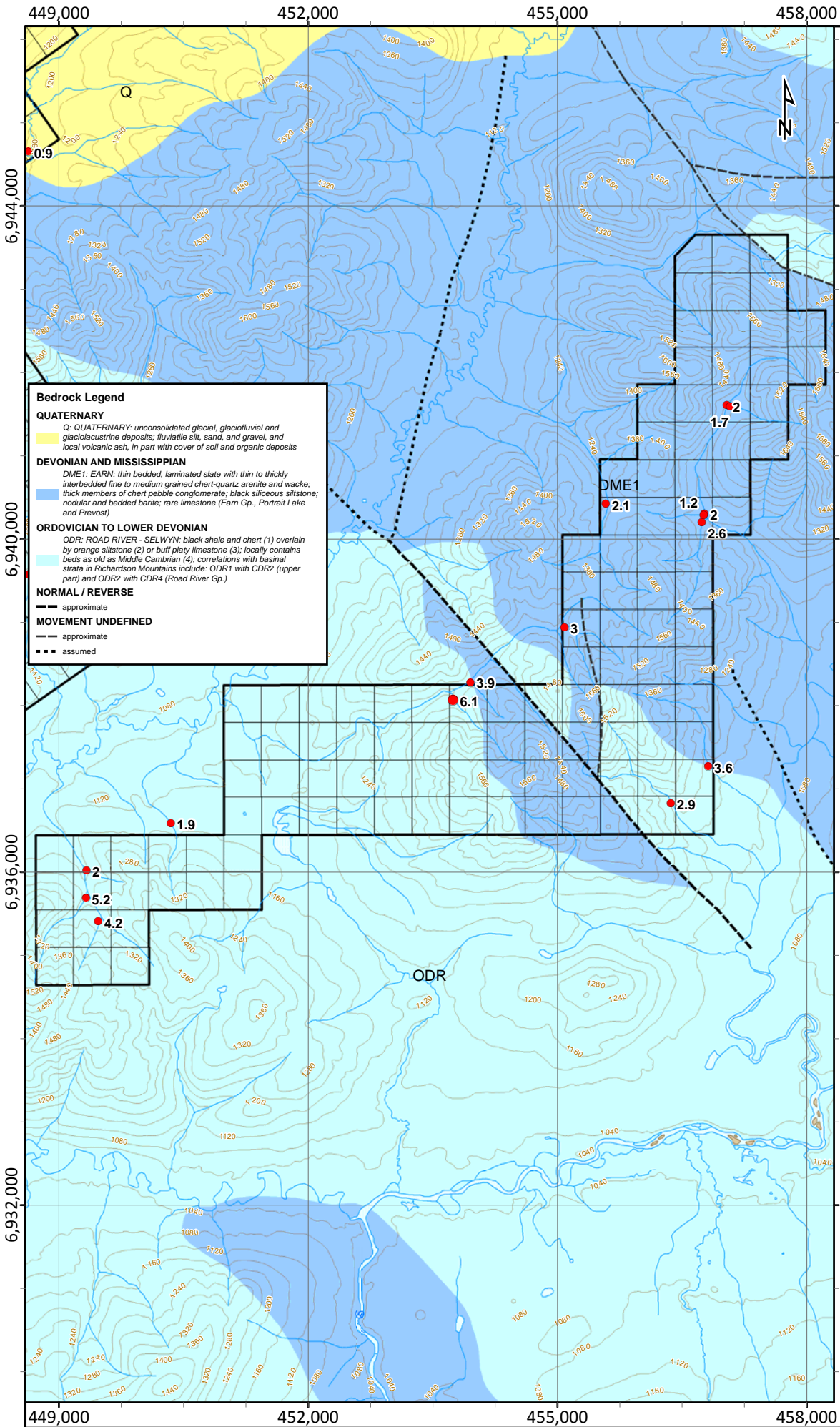
**Appendix 5**  
**Silt Geochemical Plots**  
**for Select Elements**



**JEL Property**  
Stream Sediment Geochemistry  
with Regional Bedrock



Scale:	1:62,000	Map ID:	--
Draw Date:	2012/05/11	Rev. Date:	--
Version:	1	Figure:	Appendix 5-1
Author:	E. O'Brien	Office:	Vancouver
Location:	150 km ENE of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 8N		
Filename:	JEL 2011 Silts		



**Bedrock 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

**DEVONIAN AND MISSISSIPPIAN**  
 DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke;  
 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.)

**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.)

**NORMAL / REVERSE**  
 --- approximate  
 --- approximate

**MOVEMENT UNDEFINED**  
 --- approximate  
 --- assumed



**Legend**

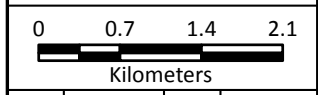
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- ◊ Quartz Claim
- Elevation (40 m)
- ~ Watercourse

**Au (ppb) Silt**

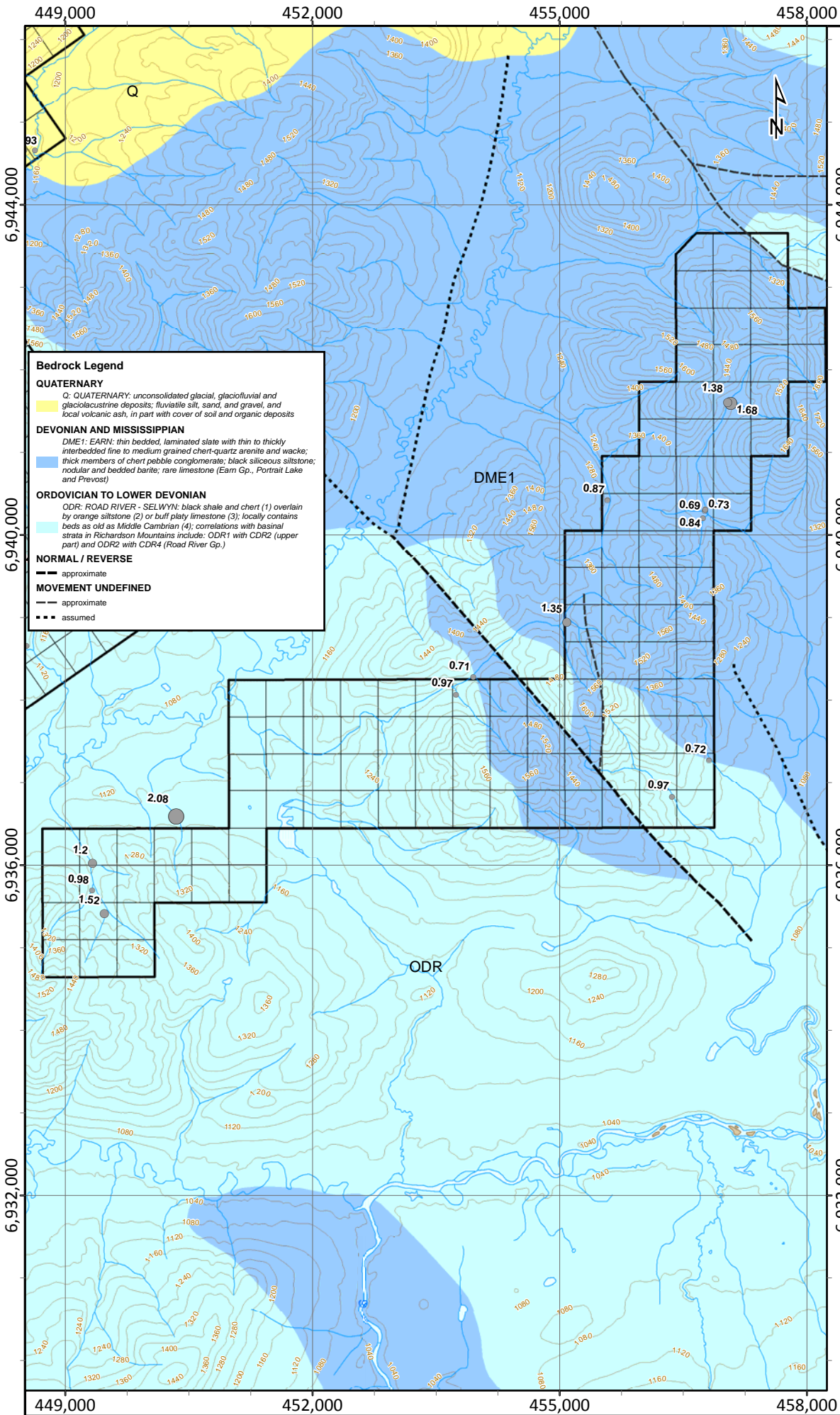
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- 5.7 - 7.7
- 7.8 - 9.0
- 9.1 - 41.9



**JEL Property**  
 Stream Sediment Geochemistry  
 with Regional Bedrock



Scale: 1:65,000	Map ID: --
Draw Date: 2012/05/11	Rev. Date: --
Version: 1	Figure: Appendix 5-2
Author: E. O'Brien	Office: Vancouver
Location: 150 km ENE of Ross River, Yukon Territory	
Projection: NAD 1983 UTM Zone 9N	
Filename: JEL 2011 Au	



**Bedrock 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

**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 Provost)

**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.)

**NORMAL / REVERSE**  
 - - - approximate

**MOVEMENT UNDEFINED**  
 - - - approximate  
 ···· assumed



**Legend**

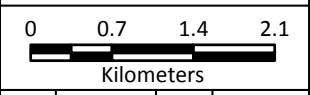
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- ◊ Quartz Claim
- Elevation (40 m)
- ~ Watercourse

**Ag (ppm) Silts**

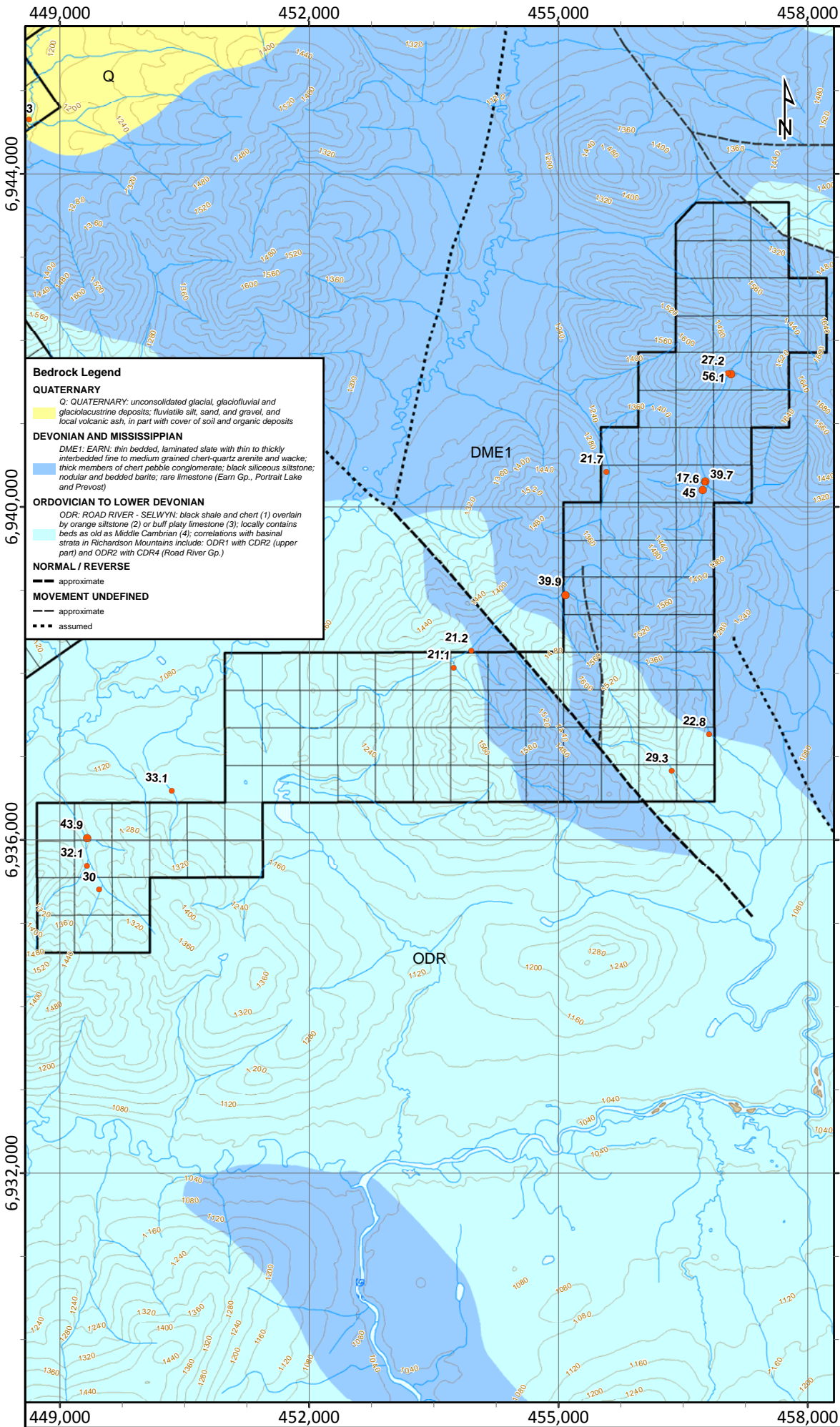
- 0.03 - 1.10
- 1.11 - 1.60
- 1.61 - 1.90
- 1.91 - 3.00



**JEL Property**  
 Stream Sediment Geochemistry  
 with Regional Bedrock



Scale:	1:65,000	Map ID:	--
Draw Date:	2012/05/11	Rev. Date:	--
Version:	1	Figure:	Appendix 5-3
Author:	E. O'Brien	Office:	Vancouver
Location:	150 km ENE of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	JEL 2011 Ag		



**Bedrock 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

**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., Portrail 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 basalinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)

**NORMAL / REVERSE**  
 --- approximate

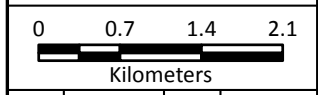
**MOVEMENT UNDEFINED**  
 --- approximate  
 - - - assumed



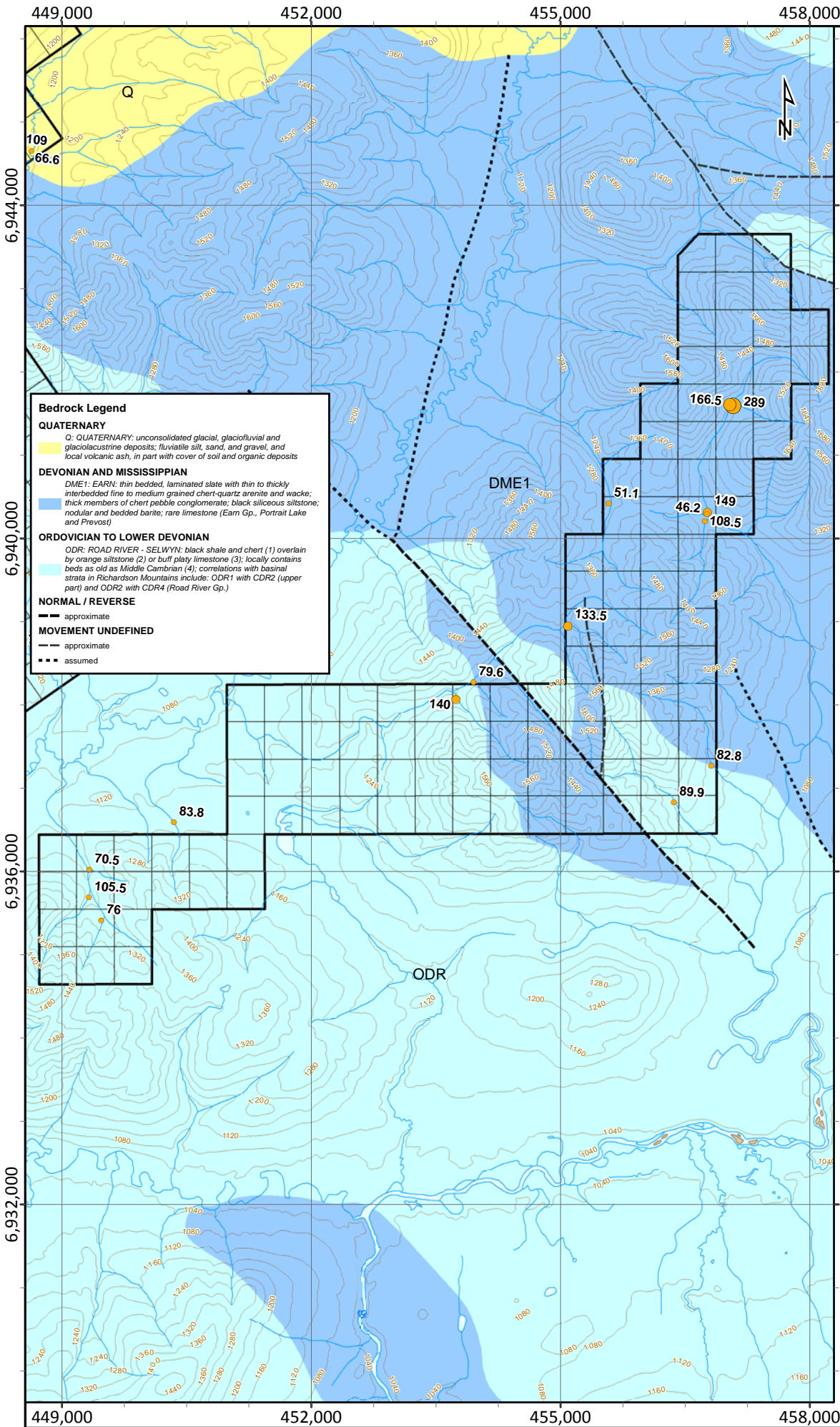
- Legend**
- ◊ GPD Property Outline
  - ◊ Quartz Claim
  - Elevation (40 m)
  - ~ Watercourse
- As (ppm) Silts**
- 3.5 - 39.4
  - 39.5 - 60.8
  - 60.9 - 80.8
  - 80.9 - 207.3
  - 207.4 - 310.0



**JEL Property**  
 Stream Sediment Geochemistry  
 with Regional Bedrock



Scale:	1:65,000	Map ID:	--
Draw Date:	2012/05/11	Rev. Date:	--
Version:	1	Figure:	Appendix 5-4
Author:	E. O'Brien	Office:	Vancouver
Location:	150 km ENE of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	JEL 2011 As		



**Bedrock 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

**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 (Eam 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 ODR4 (Road River Gp.)

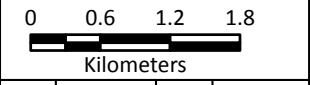
**NORMAL / REVERSE**  
 --- approximate  
 --- assumed

**MOVEMENT UNDEFINED**  
 --- approximate  
 --- assumed

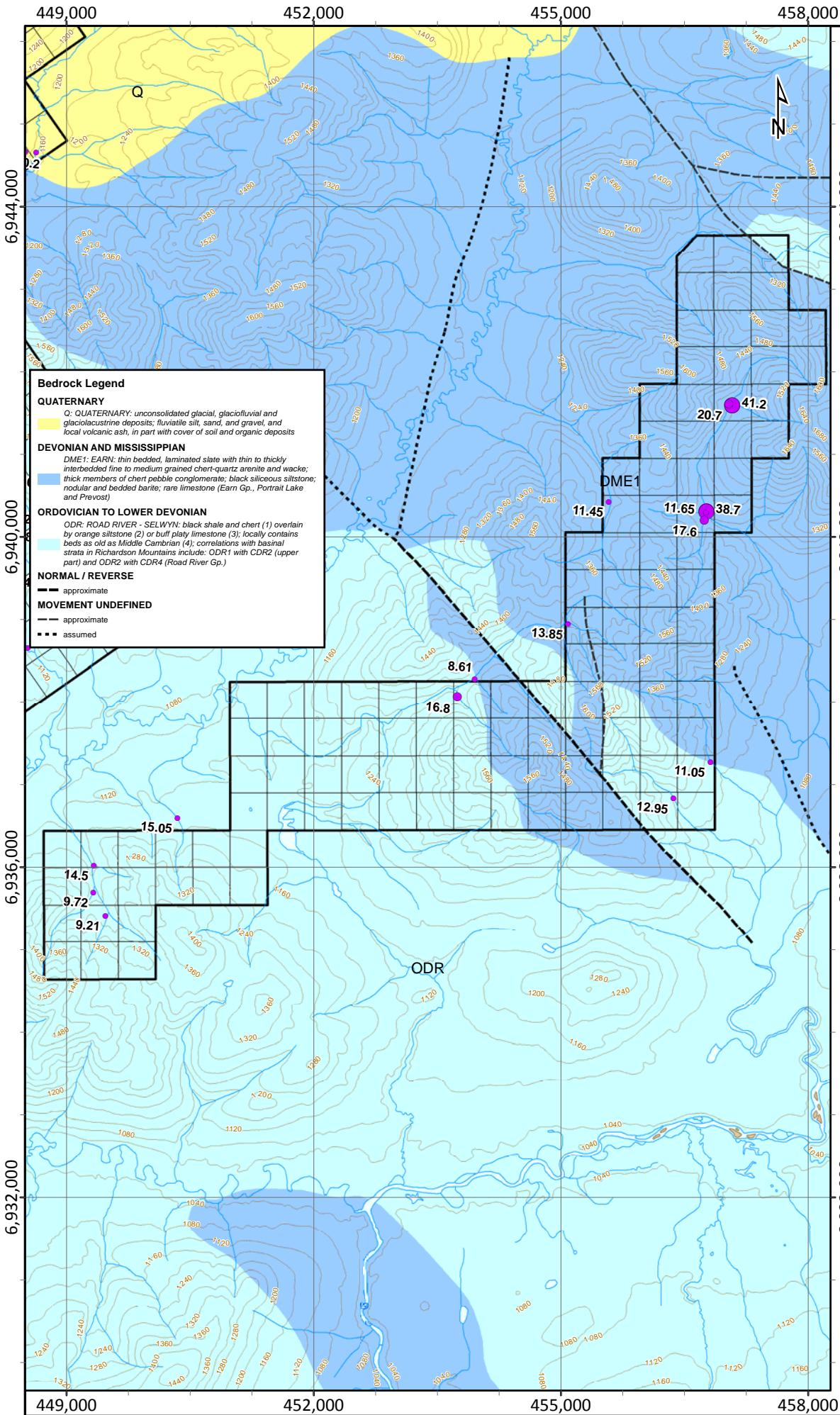
- Legend**
- ◊ GPD Property Outline
  - ◊ Quartz Claim
  - Elevation (40 m)
  - ~ Watercourse
- Cu (ppm) Silts**
- 7.9 - 111.1
  - 111.2 - 161.3
  - 161.4 - 241.9
  - 242.0 - 1515.0



**JEL Property**  
 Stream Sediment Geochemistry  
 with Regional Bedrock



Scale: 1:65,000	Map ID: --
Draw Date: 2012/05/11	Rev. Date: --
Version: 1	Figure: Appendix 5-5
Author: E. O'Brien	Office: Vancouver
Location: 150 km ENE of Ross River, Yukon Territory	
Projection: NAD 1983 UTM Zone 9N	
Filename: JEL 2011_Cu	



**Bedrock 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

**DEVONIAN AND MISSISSIPPIAN**  
 DME1: EARLY: 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 (Eam 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.)

**NORMAL / REVERSE**  
 - - - approximate

**MOVEMENT UNDEFINED**  
 - - - approximate  
 ···· assumed



**Legend**

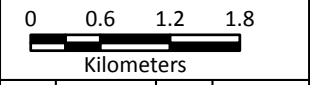
- ◊ GPD Property Outline
- ◊ Quartz Claim
- Elevation (40 m)
- ~ Watercourse

**Mo (ppm) Silts**

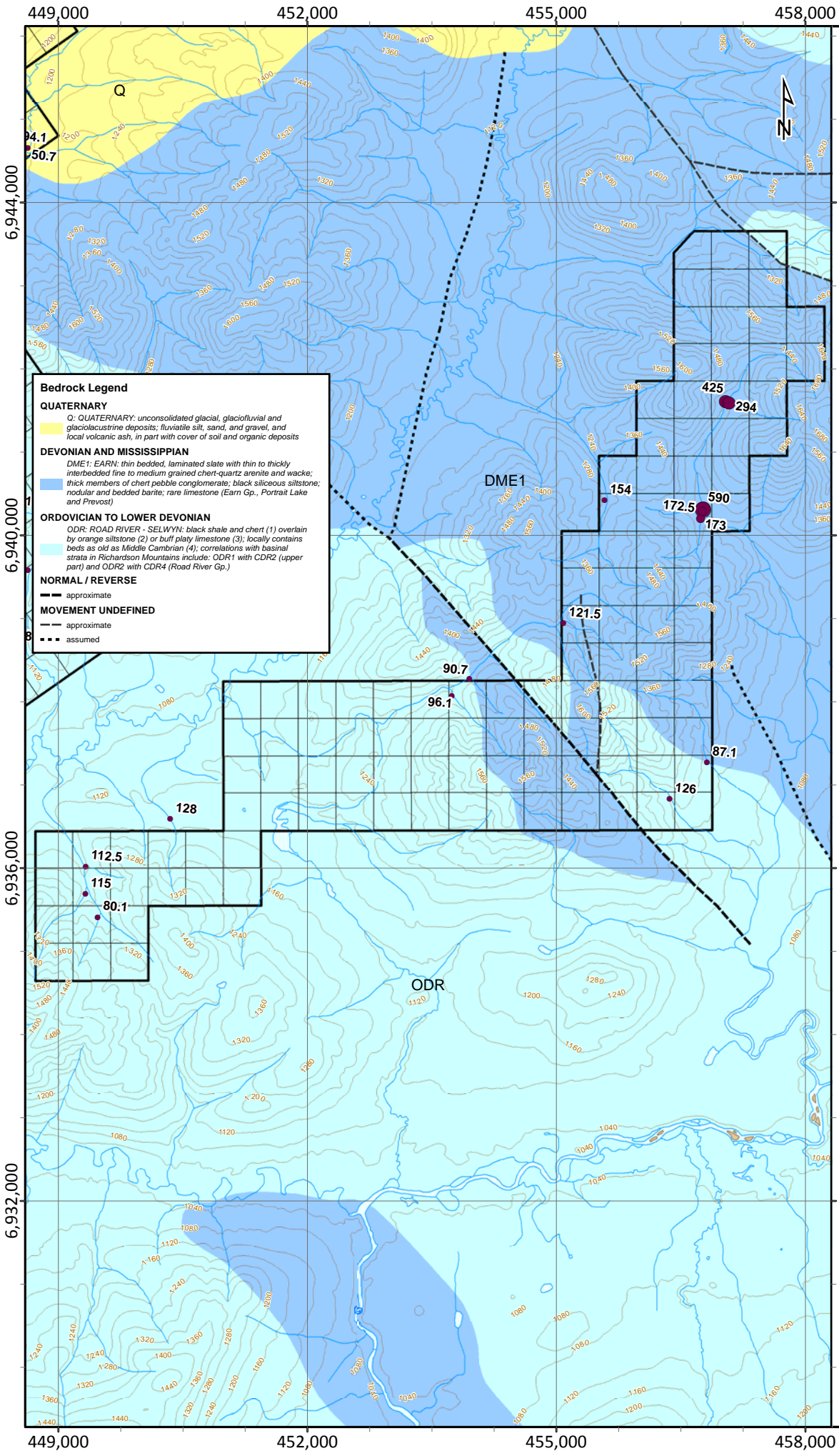
- 0.5 - 15.3
- 15.4 - 24.7
- 24.8 - 38.2
- 38.3 - 57.2



**JEL Property**  
 Stream Sediment Geochemistry  
 with Regional Bedrock



Scale:	1:65,000	Map ID:	--
Draw Date:	2012/05/11	Rev. Date:	--
Version:	1	Figure:	Appendix 5-6
Author:	E. O'Brien	Office:	Vancouver
Location:	150 km ENE of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	JEL 2011 Mo		



**Bedrock Legend**

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

**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.)

**NORMAL / REVERSE**  
 - - - approximate

**MOVEMENT UNDEFINED**  
 - - - approximate  
 - - - assumed



**Legend**

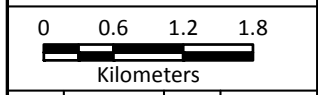
- ◊ GPD Property Outline
- ◊ Quartz Claim
- Elevation (40 m)
- ~ Watercourse

**Ni (ppm)**

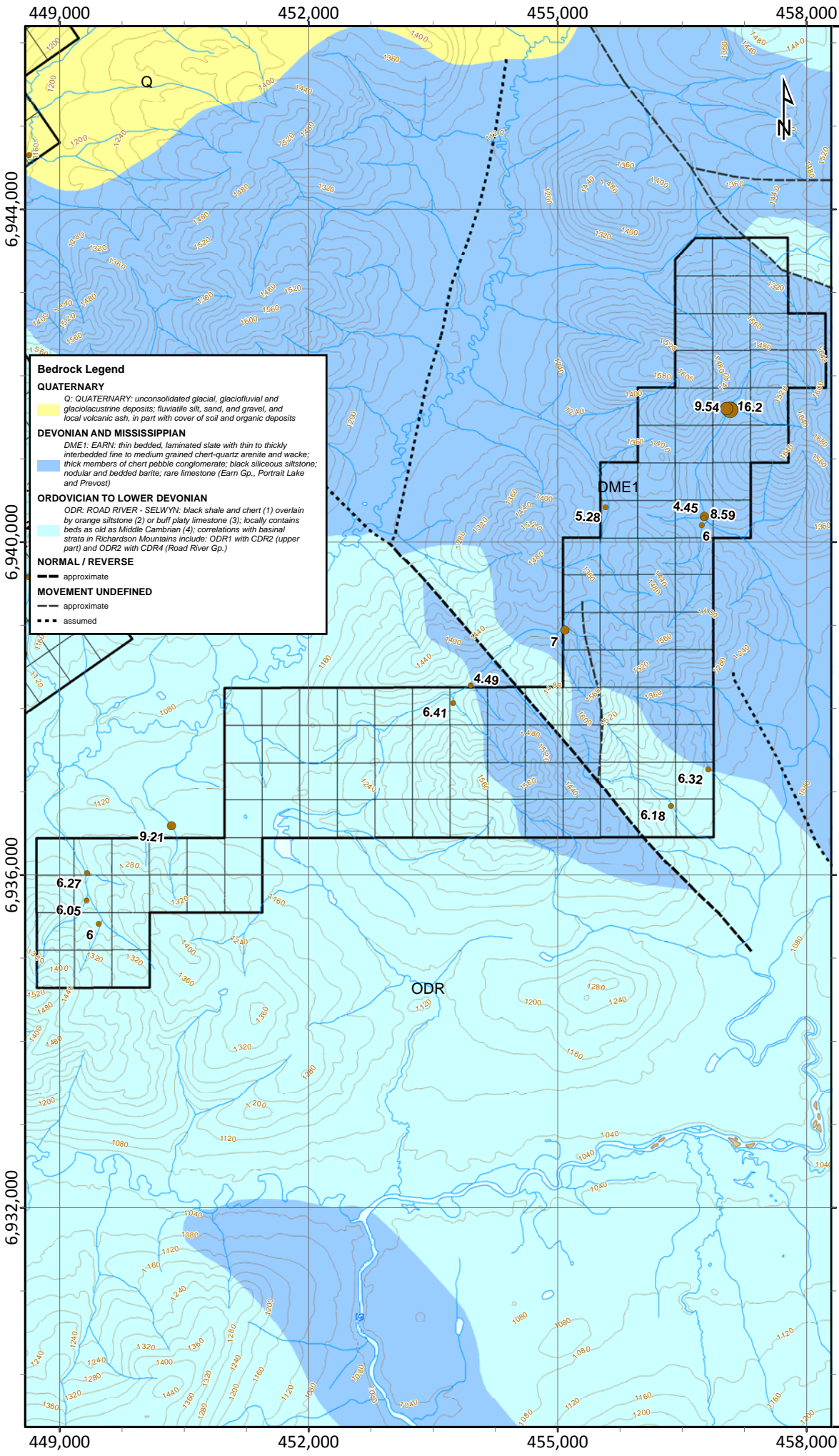
- 2 - 165
- 166 - 293
- 294 - 443
- 444 - 1100



**JEL Property**  
 Stream Sediment Geochemistry  
 with Regional Bedrock



Scale:	1:65,000	Map ID:	--
Draw Date:	2012/05/11	Rev. Date:	--
Version:	1	Figure:	Appendix 5-7
Author:	E. O'Brien	Office:	Vancouver
Location:	150 km ENE of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	JEL 2011 Ni		



**Bedrock Legend**

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

**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 CDR1 (upper part) and ODR2 with CDR4 (Road River Gp.)

**NORMAL / REVERSE**  
 --- approximate

**MOVEMENT UNDEFINED**  
 --- approximate  
 - - - assumed



**Legend**

- ◊ GPD Property Outline
- ◊ Quartz Claim
- Elevation (40 m)
- ~ Watercourse

**Sb (ppm)**

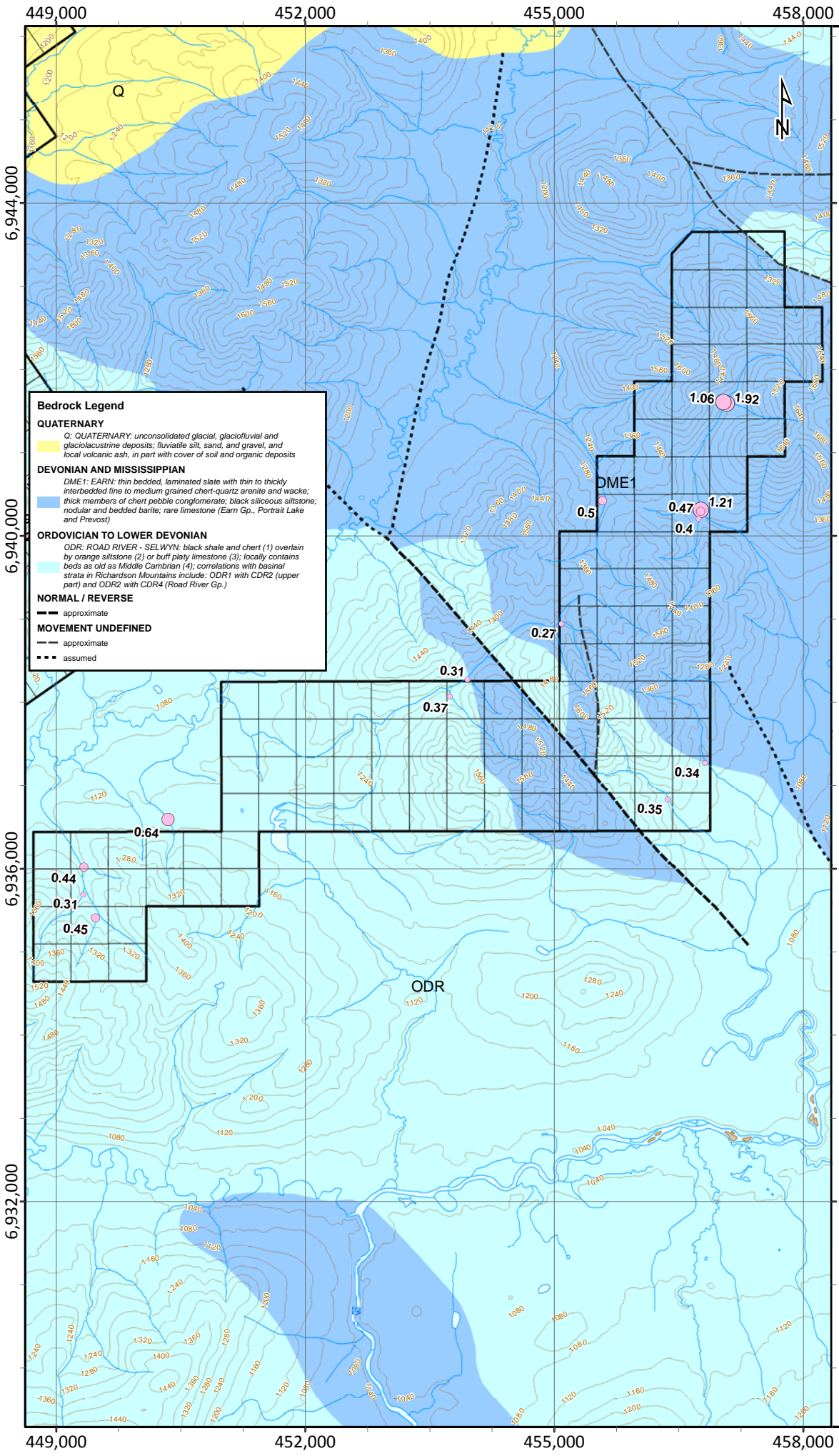
- 0.29 - 6.90
- 6.91 - 9.50
- 9.51 - 14.10
- 14.11 - 34.30



**JEL Property**  
 Stream Sediment Geochemistry  
 with Regional Bedrock

0 0.6 1.2 1.8  
 Kilometers

Scale: 1:65,000	Map ID: --
Draw Date: 2012/05/11	Rev. Date: --
Version: 1	Figure: Appendix 5-8
Author: E. O'Brien	Office: Vancouver
Location: 150 km ENE of Ross River, Yukon Territory	
Projection: NAD 1983 UTM Zone 9N	
Filename: JEL 2011 Sb	



**Bedrock 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

**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.)

**NORMAL / REVERSE**  
 - - - approximate

**MOVEMENT UNDEFINED**  
 - - - approximate  
 - - - assumed



**Legend**

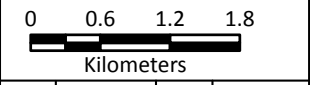
- ◊ GPD Property Outline
- ◊ Quartz Claim
- Elevation (40 m)
- ~ Watercourse

**TI (ppm)**

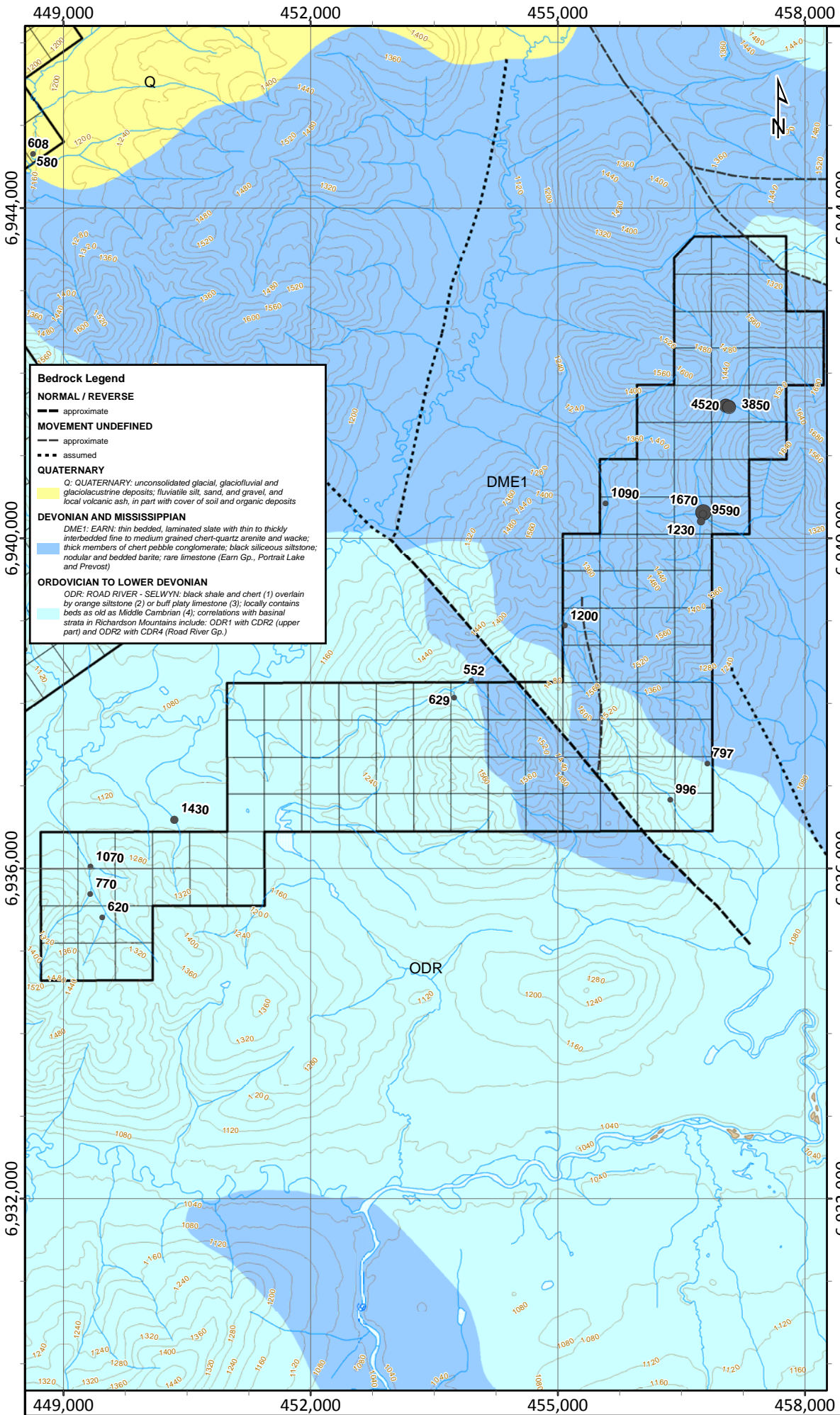
- 0.06 - 0.40
- 0.41 - 0.59
- 0.60 - 0.74
- 0.75 - 1.92



**JEL Property**  
 Stream Sediment Geochemistry  
 with Regional Bedrock



Scale:	1:65,000	Map ID:	--
Draw Date:	2012/05/11	Rev. Date:	--
Version:	1	Figure:	Appendix 5-9
Author:	E. O'Brien	Office:	Vancouver
Location:	150 km ENE of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	JEL 2011 TI		



**Bedrock Legend**

**NORMAL / REVERSE**  
 --- approximate

**MOVEMENT UNDEFINED**  
 - - - approximate  
 . . . assumed

**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

**DEVONIAN AND MISSISSIPPIAN**  
 DME1: EARN: thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wackes; 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.)

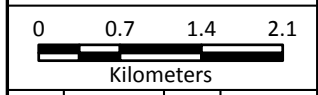


- Legend**
- ◊ GPD Property Outline
  - ◊ Quartz Claim
  - Elevation (40 m)
  - ~ Watercourse

- Zn (ppm)**
- 7 - 1200
  - 1201 - 2772
  - 2773 - 3799
  - 3800 - 8577
  - 8578 - 9590



**JEL Property**  
 Stream Sediment Geochemistry  
 with Regional Bedrock



Scale:	1:65,000	Map ID:	--
Draw Date:	2012/05/11	Rev. Date:	--
Version:	1	Figure:	Appendix 5-10
Author:	E. O'Brien	Office:	Vancouver
Location:	150 km ENE of Ross River, Yukon Territory		
Projection:	NAD 1983 UTM Zone 9N		
Filename:	JEL 2011 Zn		