

ASSESSMENT REPORT, 2011 GEOCHEMICAL SAMPLING PROGRAM

JNS PROPERTY

DAWSON MINING DISTRICT, YUKON, CANADA

NTS MAP SHEET: 116B/07, NAD83 ZONE 7

606255 E, 7132115 N (NAD83 zone 7)

CLAIMS AND OWNER:

Claim Name	Number	Grant Number	Registered Owner
JNS	1-2	YD83601-YD83602	Golden Predator Canada Corp. - 100%
JNS	3-100	YD83503- YD83600	Golden Predator Canada Corp. - 100%

PERIOD OF WORK: SEPTEMBER 11, 2011

OPERATOR:

GOLDEN PREDATOR CANADA CORP.

1100-888 Dunsmuir St.

Vancouver, V6C3K4

June 20, 2012

Prepared by:

Gilles Dessureau, M.Sc., P.Geo.

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1.0 INTRODUCTION

The JNS Property consists of 100 contiguous mineral claims covering an area of approximately 20km², located in the Klondike Plateau, north-western Yukon. In 2011, Golden Predator Canada Corp. (Golden Predator) staked the claims and owns a 100% unencumbered interest in the property.

This report describes a 1 day, 47 sample, soil program covering two ridge and spur travers lines located in the central portions of the claim group.

2.0 PROPERTY LOCATION AND DESCRIPTION

The property is located in the Klondike Plateau, north-western Yukon. The centre of the property is located at 606255 E, 7132115 N (NAD83 zone 7) on NTS Mapsheet 116B/07. The nearest settlement is Dawson City, which is located approximately 40 southwest of the property. (Figure 2-1). It is accessed by a 10 minute helicopter trip from Dawson City. The property is located in the Dawson Mining District, and consists of 100 contiguous mineral claims covering an aggregate area of 20 km² (Table 2-1, Figure 2-2).

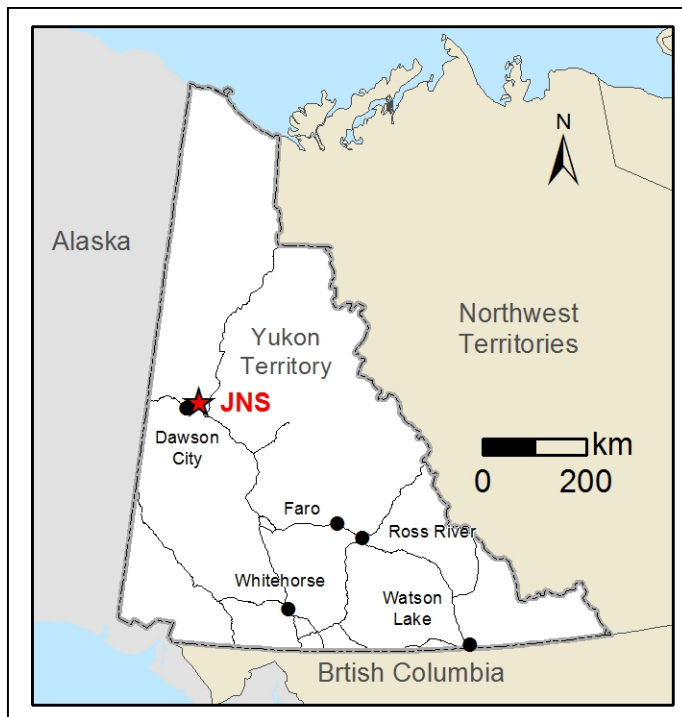


Figure 2.1. JNS Property Location, Yukon Territory

Table 2.1. JNS claim information

Claim Name	Number	Grant Number	Registered Owner	Expiry Date
JNS	1-2	YD83601-YD83602	Golden Predator Canada Corp. -	5/13/2012
JNS	3-100	YD83503- YD83600	Golden Predator Canada Corp. -	5/13/2012

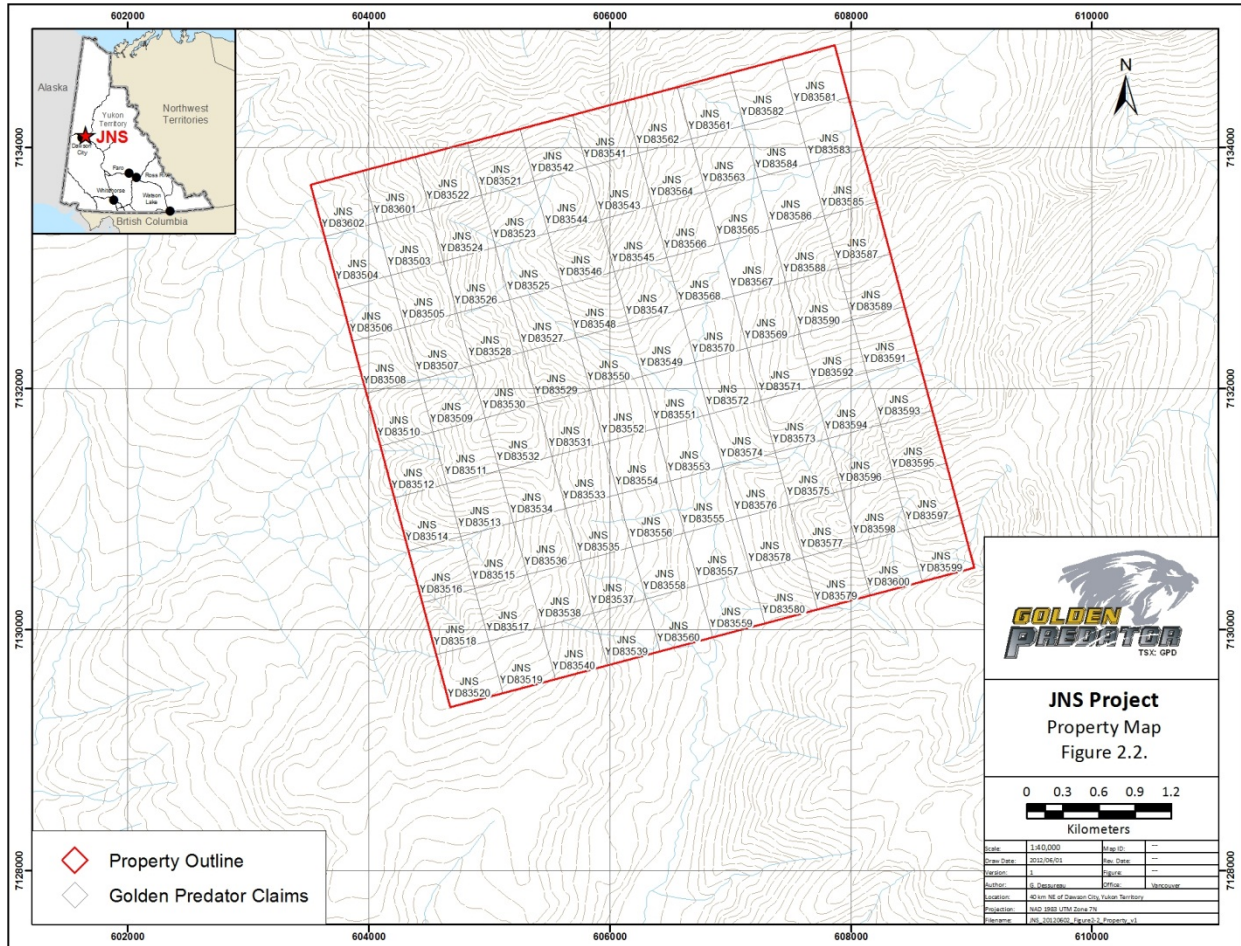


Figure 2.2. JNS Property Claim Map

3.0 INFRASTRUCTURE, CLIMATE AND PHYSIOGRAPHY

The JNS Property is located 40 km northeast of Dawson City Yukon and lies approximately 16 km west of the Dempster Highway. Dawson City is serviced daily by air from Whitehorse and is approximately 7 hours driving from Whitehorse.

The property lies within the un-glaciated Ogilvie Mountains, which is characterized by rugged a result of glacially carved U shaped valleys, and sharp ridges and arêtes. Well-developed vertical joints in the intrusive rocks also contribute to the rugged nature of the property. Valley slopes are covered in scree, resulting in the majority of bedrock being covered. Valley bottoms are predominantly colluviums and glacial moraine. Outcrop is prevalent on ridges and is exposed along the banks of the creeks. The majority of this property is above tree line (~1200 m), and vegetation consists of alder, willow, and other sub-alpine species.

The JNS Property is located at approximately 64° north latitude and is subject to a subarctic climate with average temperatures ranging from 15 °C (60 °F) in July to -26 °C (-16 °F) in January with temperatures commonly reaching above 30 °C (86 °F) in the summer and below -40 °C (-40 °F) in the winter. Average annual precipitation for Dawson City is approximately 325 mm and annual frost free days is approximately 110 days. South facing slopes are generally snow free from early May, with frost leaving the ground by the middle to end of May. North facing slopes are generally free of snow by mid to end of May, with permafrost often remaining year-round. The property is below tree line, with vegetative cover consisting of variable amounts of spruce, poplar, alder and brush, with brush and stunted spruce trees predominating on north facing slopes, higher elevations and in areas of permafrost or poor drainage, while south facing slopes are generally covered by more mature stands of spruce.

4.0 EXPLORATION HISTORY

Very little historical exploration work has been documented on the JNS Property. In 2010 Golden Predator staked 100 JNS claims to cover prospective geology around two RGS stream sediment samples and the Jeckell mineral occurrence (16B 050).

The Spotted Fawn mineral occurrence (Yukon Minfile 116B 057) lies approximately 12 km north of the JNS property and consists of several polymetallic veins cutting Mississippian Keno Hill Quartzite near a large Cretaceous Syenite Stock. The veins were extensively explored in the early 1900s and again in the 1960s and 1970s. Two veins were identified and have been traced about 18 m along strike and seldom exceed 0.6 m in width. An average assay is about 16% Pb and 822.8 g/t Ag, with selected specimens assaying up to 4 388.5 g/t Ag (Yukon Minfile 116B 057).

5.0 GEOLOGY

5.1 Regional Geology

The JNS Property is located in the north-east corner of the Selwyn Basin and covers a portion of Mississippian metasediments of the Keno Hill Quartzite bound in the northwest by the northeast trending Tombstone Thrust Fault and in the southeast by the northwest trending Robert Service Thrust Fault. The metasediments are cut by Triassic diorite and gabbro sills. The property lies approximately 12km south of the mid-Cretaceous Tombstone Syenite intrusion. Numerous northeast trending thrust faults cut the region surrounding the JNS Property.

5.2 Property Geology

The property covers Mississippian Keno Hill Quartzite and Triassic diorite-gabbro sills. The western contact of the diorite sills has been mapped as northeast to northwest striking thrust faults while the

eastern contacts have been mapped as intrusive contacts with the Keno Hill quartzite (Thompson, 1996). Bedding within the quartzite generally strikes northeast and dips to the southeast.

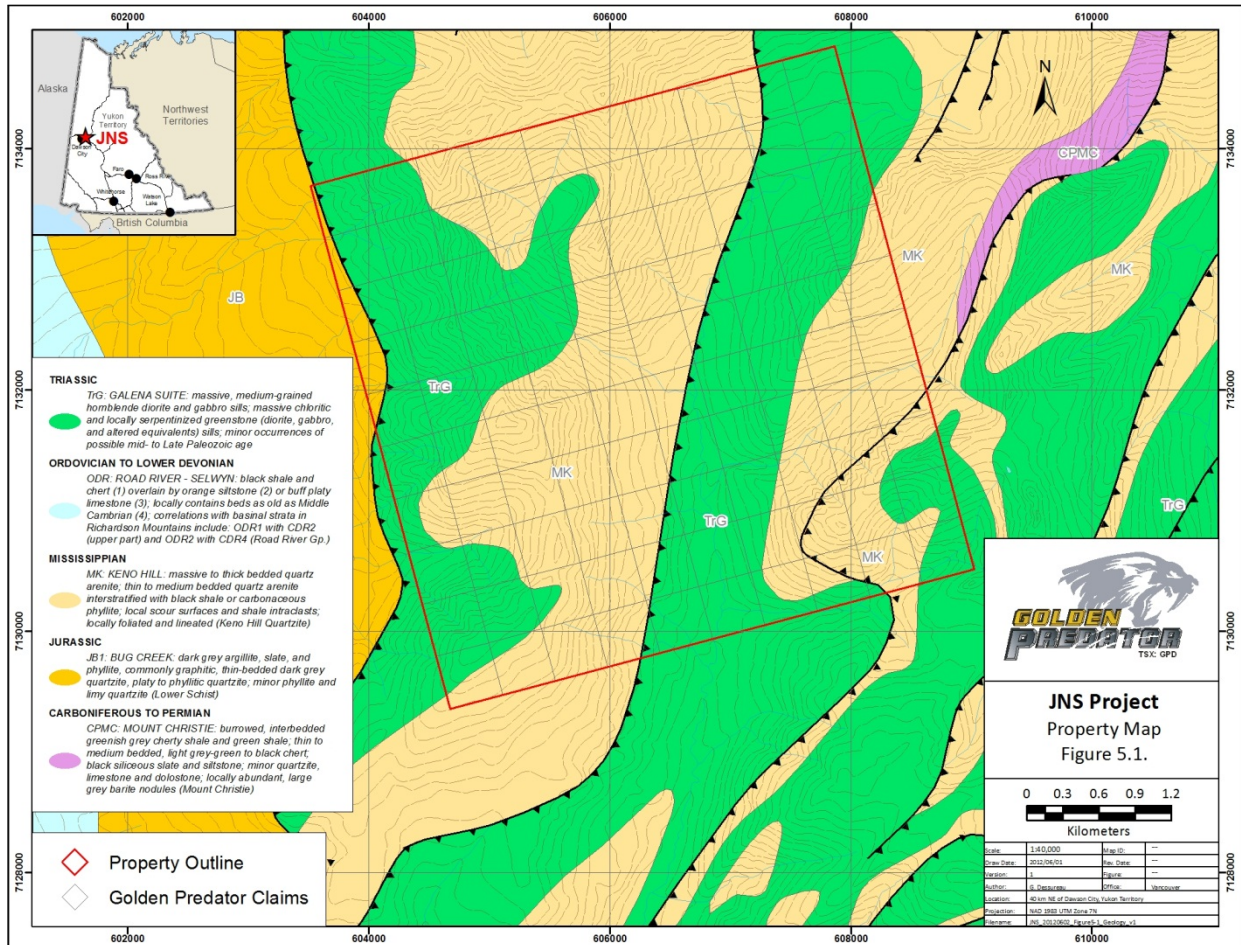


Figure 5.1. Regional Geology JNS Area.

6.0 EXPLORATION

6.1 Exploration Program

A 4 man field crew access the property for 1 day on September 11, 2011. A total of 47 soil samples were collected at 72 stations. Stations were established along ridge top traverses to cover prospective geology. No sample was collected at 25 stations due to permafrost or lack of suitable material (i.e. bedrock or boulders).

6.2 Sampling Methodology and Protocols

Most samples were collected at > 0.4 m depth using hand-held Dutch augers except where soils were very shallow or sparse, such as in boulder fields. Maddocks were employed in areas with thin overburden cover. At each sample station, sample descriptions, UTM co-ordinates and photographs were recorded.

Location and observational data were recorded when no sample was collected due to ground conditions (i.e., permafrost or boulder field with insufficient fines).

Soil sample descriptions were recorded on waterproof paper with the following information: geographic location, relief, vegetation, depth of sample, soil horizon, sample color, soil texture and moisture.

Samples were freighted to Acme's ISO 9001 certified preparation facility in Whitehorse, YT and the pulps were analyzed at Acme's ISO 9001 certified laboratory in Vancouver. Samples were dissolved in an aqua regia acid solution and then analyzed by ICP-MS methods (package 1DX2-15g). Acme completes quality assurance/ quality control data verification of their assays through internally inserted duplicates, standards and blanks. Assay certificates are compiled in Appendix 3 and the detailed methodology and detection limits are in Appendix 4.

Soil sample gold values were ranked by percentile to determine statistical anomalies for the property. Dark Green circles plot samples ranking in the lower 50th percentile (0.0 – 1.5 ppb), light green circles are samples represent samples in the 50th - 75th percentile (1.5 – 3.7 ppb), yellow circles represent samples in the 75th - 90th percentile (3.7 – 5.4 ppb), orange circles represent samples in the 90 - 95th percentile (5.4 – 7.25 ppb), dark orange circles represent samples in the 95-98th (7.25 – 15.04 ppb) and red circles represent samples in the 2 percentile (15.04 – 62.6 ppb). Silver (Ag), Arsenic (As) and Antimony (Sb) were also ranked and are plotted in Appendix 5.

6.3 Results

Results from the 2011 soil sampling program outline a small zone with weakly anomalous gold (4 samples that returned values between 7.9 and 62.6 ppb) associated with the Keno Hill quartzite in the western portion of the property. The samples also returned weakly anomalous arsenic (As), and antimony (Sb) (Figure 6.1 and Appendix 5).

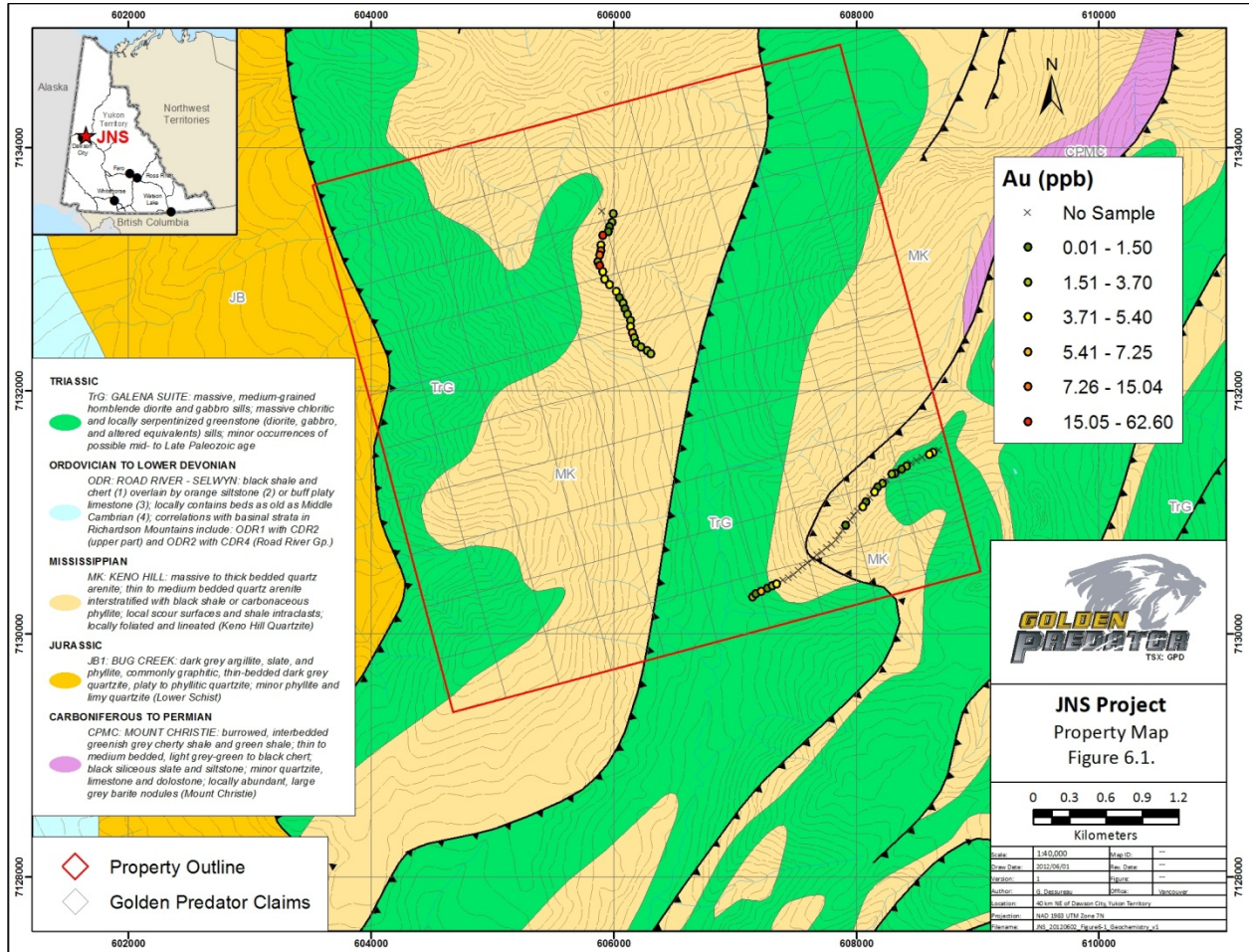


Figure 6.1. Regional Geology of the JNS area showing Au in soils results.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The JNS Property consists of 100 contiguous mineral claims covering an area of approximately 20km², located in the Klondike Plateau, north-western Yukon. Golden Predator is exploring the property for structure-hosted, intrusion related gold deposits or epithermal gold deposits.

The 2011 soil program consisted of 47 soil samples collected on several ridgeline traverses across the claim group. The program identified a small zone of anomalous gold in soils associated with Mississippian Keno Hill Quartzite.

The work completed on the JNS Property for 2011 is insufficient to truly evaluate the property for its gold potential and therefore follow-up work consisting of prospecting and mapping is recommended to investigate the sources of the geochemical anomalies.

8.0 2011 EXPENDITURES

Expenditures for the 2011 exploration program were \$5,055.14 as summarized in Table 8-1.

Table 8-1. 2011 Expenditures

Expenditure	Cost
Wages	
Fox Exploration	\$ 2,100.00
Report Writing	\$ 1,300.00
Transportation	
Helicopter	\$ 623.70
Fuel	\$ 78.66
Samples	
Soil Samples Assay	\$ 952.78
Total	\$ 5,055.14
Total Number of Samples	47
Cost Per Sample	\$ 107.56

9.0 STATEMENT OF AUTHORSHIP

This Report titled "Assessment Report, 2011 Geochemical Sampling Program, MXS Project, Dawson City Mining Division, Yukon Territory, Canada", and dated June 20th, 2012 was prepared and signed by the following author:



The seal is circular with a double-line border. The outer ring contains the text "PROVINCE OF BRITISH COLUMBIA" at the top and "GEO SCIENCE" at the bottom. The inner circle contains the text "G. R. DESSUREAU" and "#31462".

Gilles Dessureau, M.Sc., P. Geo.

Dated: June 20th, 2012

Vancouver, British Columbia

10.0 REFERENCES

Thompson, R.I., 1996. Geological compilation (1:250,000) of Dawson map area (116B,C) (northeast of Tintina Trench). Geological Survey of Canada, Open File 3223.

Yukon Minfile 116B 057, SPOTTED FAWN. Yukon Geological Survey.

Appendix 1
Statement of Qualifications

Gilles R. Dessureau, M.Sc., P.Geo
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Canada V6C 3K4
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E-mail: gillesd@goldenpredator.com

CERTIFICATE OF AUTHOR

I, Gilles Dessureau of 11th Floor, 888 Dunsmuir, Vancouver, British Columbia, certify that:

1. I graduated from St. Mary's University in Halifax, Nova Scotia with a Bachelor of Science with Honors in Geology in 1998 and I graduated from Laurentian University in Sudbury, Ontario with a Masters of Science in Geology in 2003.
2. I have worked in the mineral exploration industry continuously since 2003, in Ontario, Quebec, British Columbia, and The Yukon Territory, Canada, and intermittently since 1996 in Ontario and Nova Scotia during my education and training.
3. I am a registered member of the Association of Profession Engineers and Geoscientists of British Columbia, since August 2007. Membership number 31462.
4. I have been a full time employee of Golden Predator Canada Corp. since December, 2009.
5. I am author of this Report "Assessment Report, 2011 Geochemical Sampling Program MXS Property, Dawson Mining Division, Yukon, Canada; dated May 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.


Gilles R. Dessureau, 

Vancouver, British Columbia
Dated this 20th Day of June, 2012

Appendix 2
Analytical Summary

Sample ID	Samp		Prog				Samp		Samp Date	Au (ppb)	Ag (ppm)	As (ppm)	Sb (ppm)
	Code	Code Desc	Code	Pref Grid	Pref X	Pref Y	By						
1338833	Soil	Soil	2011	UTM83-7	607145	7130302	SVaag	9/11/2011	1.6	0.05	9.6	0.4	
1338834	Soil	Soil	2011	UTM83-7	607170	7130327	SVaag	9/11/2011	1.5	0.05	8.4	0.6	
1338835	Soil	Soil	2011	UTM83-7	607215	7130350	SVaag	9/11/2011	6.6	0.05	9.7	0.6	
1338836	Soil	Soil	2011	UTM83-7	607266	7130375	SVaag	9/11/2011	1.1	0.05	8.5	0.6	
1338837	Soil	Soil	2011	UTM83-7	607306	7130394	SVaag	9/11/2011	2.5	0.1	10.2	0.8	
1338838	Soil	Soil	2011	UTM83-7	607343	7130412	SVaag	9/11/2011	4.1	0.05	10.2	0.6	
1338839	Soil	Soil	2011	UTM83-7	607914	7130894	SVaag	9/11/2011	0.25	0.05	0.9	0.05	
1338840	2-Soil	Duplicate sample	2011	UTM83-7	607914	7130894	SVaag	9/11/2011	0.25	0.05	1	0.05	
1338885	Soil	Soil	2011	UTM83-7	605994	7133462	GvGdu	9/11/2011	3.5	0.05	10.6	2	
1338886	Soil	Soil	2011	UTM83-7	605986	7133388	GvGdu	9/11/2011	3.6	0.1	28.9	10.2	
1338887	Soil	Soil	2011	UTM83-7	605965	7133353	GvGdu	9/11/2011	1.3	0.05	14.7	2.8	
1338888	Soil	Soil	2011	UTM83-7	605956	7133313	GvGdu	9/11/2011	0.9	0.2	8.9	4.5	
1338889	2-Soil	Duplicate sample	2011	UTM83-7	605956	7133313	GvGdu	9/11/2011	0.25	0.2	8	4.8	
1338890	Soil	Soil	2011	UTM83-7	605907	7133281	GvGdu	9/11/2011	62.6	0.2	34.2	5.4	
1338912	Soil	Soil	2011	UTM83-7	605892	7133203	DCghl	9/11/2011	5.4	0.2	37.6	5.9	
1338913	Soil	Soil	2011	UTM83-7	605894	7133157	DCghl	9/11/2011	11.8	0.3	33.6	8	
1338914	Soil	Soil	2011	UTM83-7	605885	7133119	DCghl	9/11/2011	7.9	0.05	29.3	7	
1338915	Soil	Soil	2011	UTM83-7	605871	7133065	DCghl	9/11/2011	3.4	0.05	12.8	1.7	
1338916	Soil	Soil	2011	UTM83-7	605884	7133033	DCghl	9/11/2011	17.2	0.1	16.1	6	
1338917	Soil	Soil	2011	UTM83-7	605908	7132984	DCghl	9/11/2011	4.9	0.05	10.7	1	
1338918	Soil	Soil	2011	UTM83-7	605924	7132920	DCghl	9/11/2011	3.9	0.05	7.8	1.8	
1338919	Soil	Soil	2011	UTM83-7	605963	7132876	DCghl	9/11/2011	4.5	0.2	13.7	4.1	
1338920	Soil	Soil	2011	UTM83-7	606023	7132819	DCghl	9/11/2011	4.1	0.2	27.3	5	
1338921	Soil	Soil	2011	UTM83-7	606049	7132766	DCghl	9/11/2011	1.1	0.3	15.1	3.6	
1338922	Soil	Soil	2011	UTM83-7	606076	7132723	DCghl	9/11/2011	3.5	0.4	25	3.4	
1338923	Soil	Soil	2011	UTM83-7	606094	7132677	DCghl	9/11/2011	0.25	0.3	22.5	4.7	
1338924	Soil	Soil	2011	UTM83-7	606115	7132630	DCghl	9/11/2011	3.1	0.2	18	2.6	
1338925	Soil	Soil	2011	UTM83-7	606138	7132581	DCghl	9/11/2011	3.1	0.4	19.4	3.2	
1338926	Soil	Soil	2011	UTM83-7	606139	7132532	DCghl	9/11/2011	4.8	0.2	15.5	1.4	
1338927	Soil	Soil	2011	UTM83-7	606152	7132481	DCghl	9/11/2011	5.8	0.2	17	1.6	
1338928	Soil	Soil	2011	UTM83-7	606168	7132436	DCghl	9/11/2011	1.6	0.4	14.8	1.2	
1338929	Soil	Soil	2011	UTM83-7	606183	7132391	DCghl	9/11/2011	1.9	0.2	13.9	1.4	
1338930	Soil	Soil	2011	UTM83-7	606226	7132362	DCghl	9/11/2011	2.9	0.1	13	1	
1338931	Soil	Soil	2011	UTM83-7	606273	7132332	DCghl	9/11/2011	2.2	0.05	12.4	0.7	
1338932	Soil	Soil	2011	UTM83-7	606307	7132304	DCghl	9/11/2011	2.5	0.05	12.2	0.7	
1338956	Soil	Soil	2011	UTM83-7	608634	7131494	RMtsn	9/11/2011	3.8	0.05	5.2	0.4	
1338957	Soil	Soil	2011	UTM83-7	608604	7131477	RMtsn	9/11/2011	4.6	0.05	8.5	0.7	
1338958	Soil	Soil	2011	UTM83-7	608414	7131383	RMtsn	9/11/2011	6.2	0.05	11	0.4	
1338959	2-Soil	Duplicate sample	2011	UTM83-7	608414	7131383	RMtsn	9/11/2011	2.3	0.05	11.4	0.4	
1338960	Soil	Soil	2011	UTM83-7	608376	7131357	RMtsn	9/11/2011	1.4	0.05	14	0.4	
1338961	Soil	Soil	2011	UTM83-7	608320	7131321	RMtsn	9/11/2011	3.1	0.05	8.3	0.6	
1338962	Soil	Soil	2011	UTM83-7	608295	7131313	RMtsn	9/11/2011	2.4	0.2	4.2	0.3	
1338963	Soil	Soil	2011	UTM83-7	608219	7131240	RMtsn	9/11/2011	3.6	0.2	12.1	0.8	
1338964	Soil	Soil	2011	UTM83-7	608178	7131206	RMtsn	9/11/2011	0.8	0.2	3.1	0.4	
1338965	Soil	Soil	2011	UTM83-7	608153	7131169	RMtsn	9/11/2011	5.2	0.2	2.9	0.4	
1338966	Soil	Soil	2011	UTM83-7	608077	7131086	RMtsn	9/11/2011	0.25	0.3	5	0.4	
1338967	Soil	Soil	2011	UTM83-7	608054	7131048	RMtsn	9/11/2011	4.4	0.8	4.5	0.6	
2011_2203	Obsrv	Observation only	2011	UTM83-7	607400	7130439	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2204	Obsrv	Observation only	2011	UTM83-7	607444	7130462	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2205	Obsrv	Observation only	2011	UTM83-7	607486	7130488	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2206	Obsrv	Observation only	2011	UTM83-7	607525	7130520	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2207	Obsrv	Observation only	2011	UTM83-7	607563	7130552	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2208	Obsrv	Observation only	2011	UTM83-7	607601	7130585	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2209	Obsrv	Observation only	2011	UTM83-7	607640	7130616	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2210	Obsrv	Observation only	2011	UTM83-7	607679	7130647	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2211	Obsrv	Observation only	2011	UTM83-7	607719	7130677	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2212	Obsrv	Observation only	2011	UTM83-7	607759	7130708	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2213	Obsrv	Observation only	2011	UTM83-7	607798	7130738	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2214	Obsrv	Observation only	2011	UTM83-7	607834	7130773	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2215	Obsrv	Observation only	2011	UTM83-7	607862	7130814	SVaag	9/11/2011	N/A	N/A	N/A	N/A	
2011_2216	Obsrv	Observation only	2011	UTM83-7	607891	7130855	SVaag	9/11/2011	N/A	N/A	N/A	N/A	

2011_2217	Obsrv	Observation only	2011 UTM83-7	607950	7130936 SVaag	9/11/2011	N/A	N/A	N/A	N/A
2011_2218	Obsrv	Observation only	2011 UTM83-7	607983	7130973 SVaag	9/11/2011	N/A	N/A	N/A	N/A
2011_2219	Obsrv	Observation only	2011 UTM83-7	608015	7131011 SVaag	9/11/2011	N/A	N/A	N/A	N/A
2011_2220	Obsrv	Observation only	2011 UTM83-7	608114	7131124 RMtsn	9/11/2011	N/A	N/A	N/A	N/A
2011_2221	Obsrv	Observation only	2011 UTM83-7	608250	7131270 RMtsn	9/11/2011	N/A	N/A	N/A	N/A
2011_2222	Obsrv	Observation only	2011 UTM83-7	608457	7131407 RMtsn	9/11/2011	N/A	N/A	N/A	N/A
2011_2223	Obsrv	Observation only	2011 UTM83-7	608502	7131429 RMtsn	9/11/2011	N/A	N/A	N/A	N/A
2011_2224	Obsrv	Observation only	2011 UTM83-7	608547	7131452 RMtsn	9/11/2011	N/A	N/A	N/A	N/A
2011_2225	Obsrv	Observation only	2011 UTM83-7	608684	7131511 RMtsn	9/11/2011	N/A	N/A	N/A	N/A
2011_2226	Obsrv	Observation only	2011 UTM83-7	605905	7133482 GvGdu	9/11/2011	N/A	N/A	N/A	N/A

Appendix 3
Assay Certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Golden Predator Canada Corp.

11th Floor, 888 Dunsmuir Street
Vancouver BC V6C 3K4 Canada

Submitted By: Andrew Caldwell
Receiving Lab: Canada-Dawson City
Received: September 17, 2011
Report Date: October 17, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

DAW11000386.1

CLIENT JOB INFORMATION

Project: JNS
Shipment ID: JNS
P.O. Number: Quotation NA-11-435
Number of Samples: 47

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	47	Dry at 60C			DAW
SS80	47	Dry at 60C sieve 100g to -80 mesh			DAW
1DX2	47	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

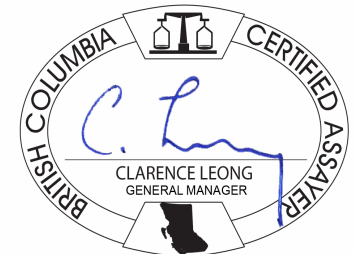
RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Golden Predator Canada Corp.
11th Floor, 888 Dunsmuir Street
Vancouver BC V6C 3K4
Canada

CC: Andrew Caldwell
Jack Cote



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: JNS
 Report Date: October 17, 2011

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CERTIFICATE OF ANALYSIS

DAW11000386.1

Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P	1DX15 La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1338833	Soil			0.8	17.1	9.3	54	<0.1	16.7	9.6	408	2.48	9.6	1.6	2.0	11	0.2	0.4	0.2	45	0.14	0.079	12
1338834	Soil			0.9	20.7	8.8	60	<0.1	19.9	9.6	371	2.25	8.4	1.5	2.0	13	0.3	0.6	0.2	45	0.15	0.080	12
1338835	Soil			0.8	20.1	9.3	65	<0.1	20.2	12.2	619	2.48	9.7	6.6	2.8	12	0.3	0.6	0.1	42	0.12	0.082	11
1338836	Soil			0.9	12.0	9.7	50	<0.1	14.7	8.7	333	2.21	8.5	1.1	1.6	12	0.2	0.6	0.2	39	0.12	0.063	11
1338837	Soil			0.9	21.5	12.5	67	0.1	20.5	9.1	257	2.59	10.2	2.5	2.5	13	0.2	0.8	0.2	54	0.14	0.068	16
1338838	Soil			1.3	14.4	12.2	43	<0.1	12.5	5.4	178	2.50	10.2	4.1	0.3	11	0.1	0.6	0.2	55	0.09	0.076	10
1338839	Soil			0.1	2.0	2.1	4	<0.1	1.4	0.6	24	0.17	0.9	<0.5	0.8	2	<0.1	<0.1	<0.1	4	<0.01	0.005	2
1338840	Soil			0.1	2.3	2.0	5	<0.1	1.7	0.6	28	0.19	1.0	<0.5	0.7	2	<0.1	<0.1	<0.1	5	<0.01	0.006	2
1338885	Soil			0.9	26.1	13.6	62	<0.1	28.6	11.4	387	3.01	10.6	3.5	4.0	18	0.2	2.0	0.2	55	0.21	0.061	18
1338886	Soil			1.4	26.1	15.5	79	0.1	20.5	8.5	318	4.06	28.9	3.6	1.6	14	0.3	10.2	0.2	51	0.13	0.090	11
1338887	Soil			1.4	24.7	13.1	66	<0.1	21.8	8.6	349	2.91	14.7	1.3	2.0	13	0.3	2.8	0.2	51	0.10	0.063	13
1338888	Soil			1.2	16.9	11.5	44	0.2	15.7	6.1	230	2.10	8.9	0.9	3.4	22	0.1	4.5	0.2	36	0.10	0.052	12
1338889	Soil			1.1	15.7	11.2	39	0.2	15.1	6.0	206	1.96	8.0	<0.5	4.0	22	0.2	4.8	0.2	34	0.09	0.050	12
1338890	Soil			2.1	25.6	14.6	62	0.2	17.8	7.8	413	3.14	34.2	62.6	1.1	21	0.2	5.4	0.3	57	0.12	0.139	13
1338956	Soil			0.7	159.0	5.4	72	<0.1	70.4	33.9	1000	4.92	5.2	3.8	1.6	87	0.2	0.4	0.1	118	1.13	0.110	7
1338957	Soil			1.0	54.0	7.8	78	<0.1	39.5	17.5	728	3.66	8.5	4.6	1.1	33	0.3	0.7	0.2	90	0.40	0.078	10
1338958	Soil			1.1	40.4	6.9	44	<0.1	25.1	12.9	558	3.97	11.0	6.2	0.9	24	<0.1	0.4	0.1	81	0.24	0.129	24
1338959	Soil			1.1	38.6	7.0	44	<0.1	25.6	13.1	524	3.83	11.4	2.3	1.0	24	0.1	0.4	0.2	78	0.24	0.115	26
1338960	Soil			1.4	20.6	8.8	39	<0.1	32.7	10.9	293	3.12	14.0	1.4	3.2	13	0.1	0.4	0.1	35	0.18	0.120	37
1338961	Soil			1.2	17.3	12.1	40	<0.1	14.4	11.2	390	1.79	8.3	3.1	1.5	15	0.2	0.6	0.2	34	0.08	0.059	11
1338962	Soil			0.9	17.0	9.1	45	0.2	18.6	21.2	565	1.15	4.2	2.4	1.4	30	0.2	0.3	<0.1	24	0.09	0.060	7
1338963	Soil			1.9	22.2	11.1	57	0.2	22.9	19.7	424	2.84	12.1	3.6	1.4	19	<0.1	0.8	0.2	51	0.08	0.047	13
1338964	Soil			1.9	13.9	6.1	13	0.2	5.2	3.1	75	0.77	3.1	0.8	1.8	23	<0.1	0.4	<0.1	16	0.03	0.033	5
1338965	Soil			1.5	8.9	5.9	18	0.2	7.0	2.1	57	0.90	2.9	5.2	1.2	17	<0.1	0.4	<0.1	19	0.03	0.023	5
1338966	Soil			2.0	11.2	6.9	12	0.3	4.6	1.6	34	0.97	5.0	<0.5	1.1	16	<0.1	0.4	0.1	21	0.03	0.027	5
1338967	Soil			0.6	29.8	19.8	15	0.8	9.6	1.9	35	0.89	4.5	4.4	2.6	24	0.2	0.6	0.2	39	0.07	0.081	12
1338912	Soil			1.7	17.0	10.3	41	0.2	9.5	3.3	117	2.49	37.6	5.4	0.3	13	0.2	5.9	0.3	53	0.06	0.091	9
1338913	Soil			1.6	19.2	12.7	51	0.3	13.4	5.1	186	3.30	33.6	11.8	1.5	12	0.1	8.0	0.3	67	0.08	0.055	14
1338914	Soil			1.1	18.7	11.4	67	<0.1	18.0	7.8	333	3.16	29.3	7.9	2.1	13	0.2	7.0	0.2	55	0.16	0.071	14
1338915	Soil			0.9	16.8	10.8	65	<0.1	18.5	6.3	226	2.53	12.8	3.4	2.0	12	0.2	1.7	0.2	47	0.10	0.031	13

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Report Date: October 17, 2011

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CERTIFICATE OF ANALYSIS

DAW11000386.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1338833	Soil			25	0.37	79	0.033	2	1.59	0.005	0.05	0.1	0.03	2.1	0.1	<0.05	5	<0.5	<0.2
1338834	Soil			26	0.37	78	0.032	<1	1.58	0.006	0.05	0.2	0.04	2.2	0.1	<0.05	4	0.6	<0.2
1338835	Soil			26	0.39	96	0.032	2	1.83	0.006	0.05	0.2	0.04	2.6	0.1	<0.05	4	0.5	<0.2
1338836	Soil			22	0.26	74	0.027	1	1.18	0.005	0.04	0.2	0.03	1.8	0.1	<0.05	4	0.7	<0.2
1338837	Soil			30	0.44	123	0.053	2	1.80	0.007	0.06	0.2	0.03	2.8	0.2	<0.05	5	0.5	<0.2
1338838	Soil			28	0.35	77	0.025	2	1.68	0.006	0.04	0.1	0.05	1.3	0.1	0.07	6	0.9	<0.2
1338839	Soil			2	0.02	15	0.004	<1	0.12	<0.001	<0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
1338840	Soil			3	0.02	18	0.005	<1	0.13	<0.001	<0.01	<0.1	0.02	0.3	<0.1	<0.05	<1	<0.5	<0.2
1338885	Soil			32	0.46	98	0.065	2	1.32	0.008	0.05	0.3	0.16	2.8	0.2	<0.05	4	<0.5	<0.2
1338886	Soil			27	0.33	80	0.042	1	1.25	0.006	0.06	0.3	0.12	2.0	0.1	0.07	5	0.9	<0.2
1338887	Soil			28	0.36	71	0.045	2	1.45	0.007	0.05	0.3	0.06	1.9	0.1	0.06	5	0.8	<0.2
1338888	Soil			20	0.32	107	0.025	1	1.17	0.008	0.06	0.2	0.06	2.0	0.1	0.05	4	0.7	<0.2
1338889	Soil			20	0.33	109	0.025	1	1.13	0.008	0.05	0.2	0.05	2.0	0.1	<0.05	4	0.7	<0.2
1338890	Soil			31	0.33	90	0.028	2	1.56	0.008	0.05	0.3	0.11	1.6	0.2	0.08	5	1.1	<0.2
1338956	Soil			123	1.74	254	0.099	2	3.62	0.042	0.06	<0.1	0.05	10.8	<0.1	<0.05	8	0.6	<0.2
1338957	Soil			59	0.75	244	0.059	3	2.30	0.015	0.05	0.1	0.05	3.3	<0.1	0.06	6	<0.5	<0.2
1338958	Soil			36	0.48	167	0.017	<1	1.88	0.013	0.07	<0.1	0.06	2.2	<0.1	0.08	7	<0.5	<0.2
1338959	Soil			34	0.44	164	0.019	<1	1.89	0.012	0.07	<0.1	0.05	2.2	<0.1	0.06	7	0.7	<0.2
1338960	Soil			26	0.35	96	0.004	<1	1.55	0.009	0.05	<0.1	0.03	2.2	<0.1	<0.05	6	0.6	<0.2
1338961	Soil			19	0.21	89	0.019	2	0.90	0.006	0.05	0.1	0.09	1.9	0.1	<0.05	3	<0.5	<0.2
1338962	Soil			12	0.15	90	0.018	<1	0.63	0.004	0.03	<0.1	0.11	1.4	0.2	<0.05	2	<0.5	<0.2
1338963	Soil			27	0.32	106	0.040	2	1.54	0.005	0.04	0.2	0.12	1.8	0.2	<0.05	5	0.9	<0.2
1338964	Soil			14	0.04	181	0.004	1	0.31	0.003	0.03	<0.1	0.19	2.2	<0.1	<0.05	1	1.7	<0.2
1338965	Soil			14	0.06	178	0.007	2	0.42	0.004	0.03	<0.1	0.10	1.4	<0.1	<0.05	2	1.2	<0.2
1338966	Soil			17	0.05	219	0.007	1	0.40	0.004	0.03	<0.1	0.12	1.7	<0.1	<0.05	2	1.7	<0.2
1338967	Soil			32	0.12	330	0.006	2	1.30	0.007	0.06	<0.1	0.87	5.8	0.2	0.11	4	1.6	<0.2
1338912	Soil			23	0.13	62	0.025	<1	0.87	0.007	0.04	0.2	0.12	0.9	0.2	0.08	5	0.9	<0.2
1338913	Soil			27	0.21	60	0.046	<1	1.17	0.006	0.04	0.4	0.12	1.5	0.2	<0.05	7	0.6	<0.2
1338914	Soil			27	0.38	76	0.043	<1	1.40	0.006	0.04	0.4	0.07	1.9	<0.1	<0.05	5	0.5	<0.2
1338915	Soil			24	0.33	70	0.048	1	1.25	0.007	0.05	0.2	0.07	1.8	<0.1	<0.05	5	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
1338916	Soil	1.6	31.8	29.9	57	0.1	17.4	6.6	317	2.44	16.1	17.2	1.6	21	0.2	6.0	0.2	43	0.13	0.082	13
1338917	Soil	1.3	20.0	11.0	61	<0.1	19.9	8.0	345	2.63	10.7	4.9	1.6	13	0.2	1.0	0.2	56	0.14	0.060	15
1338918	Soil	1.0	29.9	8.1	60	<0.1	23.8	9.6	317	2.48	7.8	3.9	4.3	17	0.2	1.8	0.2	51	0.21	0.070	17
1338919	Soil	1.3	28.2	10.9	51	0.2	18.7	6.8	302	2.22	13.7	4.5	3.1	87	0.4	4.1	0.2	46	0.13	0.084	15
1338920	Soil	1.6	30.0	17.8	39	0.2	12.2	4.1	209	2.26	27.3	4.1	0.9	28	0.1	5.0	0.3	44	0.06	0.056	8
1338921	Soil	0.9	20.2	20.7	14	0.3	5.6	1.3	79	0.77	15.1	1.1	1.6	41	<0.1	3.6	0.3	22	0.04	0.036	6
1338922	Soil	1.7	22.5	19.5	33	0.4	12.5	3.5	182	1.86	25.0	3.5	1.1	35	0.2	3.4	0.3	39	0.06	0.058	9
1338923	Soil	1.2	38.9	14.6	48	0.3	15.5	5.8	216	2.12	22.5	<0.5	1.2	24	0.2	4.7	0.3	59	0.07	0.049	10
1338924	Soil	1.3	20.1	15.4	31	0.2	8.9	3.4	128	1.89	18.0	3.1	1.4	43	<0.1	2.6	0.3	54	0.05	0.037	9
1338925	Soil	1.2	22.4	14.8	36	0.4	10.7	3.7	144	2.01	19.4	3.1	0.4	41	<0.1	3.2	0.3	47	0.04	0.056	8
1338926	Soil	1.2	19.7	13.0	64	0.2	18.3	8.8	507	2.53	15.5	4.8	0.5	20	0.3	1.4	0.2	55	0.08	0.068	10
1338927	Soil	1.1	18.8	14.8	50	0.2	17.1	6.9	236	2.47	17.0	5.8	0.9	29	0.2	1.6	0.3	50	0.10	0.064	11
1338928	Soil	1.2	12.0	13.6	33	0.4	11.0	3.8	133	2.21	14.8	1.6	1.4	18	0.1	1.2	0.2	60	0.07	0.047	9
1338929	Soil	0.9	15.6	12.5	36	0.2	12.1	4.1	131	1.97	13.9	1.9	0.5	20	0.1	1.4	0.2	47	0.07	0.054	9
1338930	Soil	1.1	14.2	11.4	38	0.1	12.4	5.1	194	2.43	13.0	2.9	1.3	14	<0.1	1.0	0.2	58	0.06	0.052	12
1338931	Soil	1.0	14.8	10.8	53	<0.1	16.1	8.2	507	3.30	12.4	2.2	1.8	11	0.2	0.7	0.2	54	0.11	0.049	11
1338932	Soil	1.4	15.4	10.2	51	<0.1	14.3	6.1	281	2.81	12.2	2.5	2.4	10	0.2	0.7	0.2	70	0.08	0.040	12



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CERTIFICATE OF ANALYSIS

DAW11000386.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1338916	Soil	28	0.26	92	0.021	1	1.07	0.007	0.05	0.3	0.16	1.7	0.2	<0.05	4	1.2	<0.2
1338917	Soil	27	0.36	81	0.046	2	1.40	0.007	0.05	0.3	0.11	1.8	<0.1	<0.05	5	0.6	<0.2
1338918	Soil	26	0.39	95	0.049	<1	1.12	0.007	0.05	0.2	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
1338919	Soil	23	0.29	436	0.022	2	1.12	0.007	0.07	0.2	0.05	2.3	<0.1	0.05	4	0.7	<0.2
1338920	Soil	23	0.16	156	0.017	2	0.89	0.008	0.06	0.2	0.26	1.4	0.2	0.10	4	1.6	<0.2
1338921	Soil	13	0.05	290	0.002	2	0.73	0.005	0.06	<0.1	0.65	2.1	0.3	0.08	2	1.2	<0.2
1338922	Soil	23	0.16	236	0.010	3	0.95	0.007	0.07	0.1	0.31	1.5	0.2	0.09	4	1.3	<0.2
1338923	Soil	23	0.20	220	0.014	2	1.02	0.005	0.05	<0.1	0.24	2.2	0.2	0.09	4	1.3	<0.2
1338924	Soil	19	0.12	246	0.019	2	0.74	0.004	0.05	0.1	0.13	1.5	0.2	0.06	5	0.9	<0.2
1338925	Soil	20	0.15	243	0.013	2	0.90	0.004	0.05	0.1	0.21	1.3	0.2	0.05	4	1.0	<0.2
1338926	Soil	27	0.33	165	0.024	2	1.37	0.006	0.06	0.1	0.08	1.4	0.1	0.09	5	1.7	<0.2
1338927	Soil	25	0.28	216	0.022	3	1.41	0.005	0.05	0.2	0.11	1.8	0.2	<0.05	5	1.1	<0.2
1338928	Soil	19	0.16	128	0.029	2	1.03	0.004	0.04	0.2	0.09	1.5	0.2	0.06	5	0.9	<0.2
1338929	Soil	19	0.16	159	0.021	2	0.93	0.005	0.05	<0.1	0.09	1.2	0.1	0.07	4	1.0	<0.2
1338930	Soil	22	0.22	106	0.032	2	1.32	0.005	0.04	0.2	0.05	1.6	0.1	<0.05	6	<0.5	<0.2
1338931	Soil	32	0.34	94	0.055	2	1.50	0.005	0.04	0.2	0.06	2.2	<0.1	<0.05	6	0.7	<0.2
1338932	Soil	29	0.28	93	0.058	2	1.57	0.005	0.04	0.1	0.08	2.1	0.1	<0.05	7	1.0	<0.2



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Project: JNS

Report Date: October 17, 2011

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

DAW11000386.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1338956	Soil	0.7	159.0	5.4	72	<0.1	70.4	33.9	1000	4.92	5.2	3.8	1.6	87	0.2	0.4	0.1	118	1.13	0.110	7
REP 1338956	QC	0.6	156.7	5.5	71	<0.1	71.4	32.9	1012	4.88	4.8	3.4	1.6	88	0.3	0.3	0.1	120	1.15	0.110	7
1338916	Soil	1.6	31.8	29.9	57	0.1	17.4	6.6	317	2.44	16.1	17.2	1.6	21	0.2	6.0	0.2	43	0.13	0.082	13
REP 1338916	QC	1.7	32.8	28.8	59	0.1	18.3	6.4	306	2.49	16.5	10.0	1.6	22	0.3	6.2	0.2	43	0.13	0.085	14
1338922	Soil	1.7	22.5	19.5	33	0.4	12.5	3.5	182	1.86	25.0	3.5	1.1	35	0.2	3.4	0.3	39	0.06	0.058	9
REP 1338922	QC	1.7	23.7	20.4	35	0.5	12.2	3.7	197	1.84	26.9	4.3	1.3	37	0.2	3.8	0.3	43	0.07	0.061	10
Reference Materials																					
STD DS8	Standard	13.1	110.9	125.7	305	1.9	37.9	7.7	620	2.42	26.4	116.4	6.5	70	2.5	5.7	7.2	45	0.69	0.081	16
STD DS8	Standard	13.6	106.2	122.5	316	1.9	37.3	7.9	626	2.51	26.1	121.2	7.1	71	2.5	5.8	6.6	43	0.68	0.082	17
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: JNS

Report Date: October 17, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

DAW11000386.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1338956	Soil	123	1.74	254	0.099	2	3.62	0.042	0.06	<0.1	0.05	10.8	<0.1	<0.05	8	0.6	<0.2
REP 1338956	QC	122	1.79	255	0.097	2	3.83	0.042	0.06	<0.1	0.04	10.4	<0.1	<0.05	8	<0.5	<0.2
1338916	Soil	28	0.26	92	0.021	1	1.07	0.007	0.05	0.3	0.16	1.7	0.2	<0.05	4	1.2	<0.2
REP 1338916	QC	29	0.27	89	0.020	1	1.07	0.007	0.05	0.3	0.17	1.7	0.2	<0.05	5	1.0	<0.2
1338922	Soil	23	0.16	236	0.010	3	0.95	0.007	0.07	0.1	0.31	1.5	0.2	0.09	4	1.3	<0.2
REP 1338922	QC	26	0.16	255	0.016	2	0.99	0.007	0.09	0.2	0.30	1.6	0.3	0.15	4	2.3	<0.2
Reference Materials																	
STD DS8	Standard	116	0.62	281	0.115	5	0.98	0.116	0.42	3.0	0.20	2.7	5.6	0.16	5	5.6	4.7
STD DS8	Standard	119	0.60	290	0.121	2	0.94	0.095	0.41	3.1	0.21	2.3	5.4	0.17	5	4.3	5.1
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

Appendix 4
Analytical Methods and
Detection Limits

METHOD SPECIFICATIONS

GROUP 1D AND 1F – GEOCHEMICAL AQUA REGIA DIGESTION

Package Codes:	1D01 to 1D03, 1DX1 to 1DX3, 1F01 to 1F07
Sample Digestion:	HNO ₃ -HCl acid digestion
Instrumentation Method:	ICP-ES (1D), ICP-MS (1DX, 1F)
Applicability:	Sediment, Soil, Non-mineralized Rock and Drill Core

Method Description:

Prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO₃ and DI H₂O for one hour in a heating block of hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5g, 15g or 30g can be analyzed.

For 1F07, Lead isotopes (Pb₂₀₄, Pb₂₀₆, Pb₂₀₇, Pb₂₀₈) are suitable for geochemical exploration of U and other commodities where gross differences in natural to radiogenic Pb ratios, is a benefit. Isotope values can be reported in both concentrations and intensities. Sample splits of 0.25g, 0.5g, 15g or 30g can be analyzed.

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Ag	0.3 ppm	0.1 ppm	2 ppb	100 ppm
Al*	0.01%	0.01%	0.01%	10%
As	2 ppm	0.5 ppm	0.1 ppm	10000 ppm
Au	2 ppm	0.5 ppb	0.2 ppb	100 ppm
B*^	20 ppm	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Ca*	0.01%	0.01%	0.01%	40%
Cd	0.5 ppm	0.1 ppm	0.01 ppm	2000 ppm
Co	1 ppm	0.1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	0.01 ppm	10000 ppm
Fe*	0.01%	0.01%	0.01%	40%
Ga*	-	1 ppm	0.1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	5 ppb	50 ppm
K*	0.01%	0.01%	0.01%	10%
La*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Mg*	0.01%	0.01%	0.01%	30%
Mn*	2 ppm	1 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	0.01 ppm	2000 ppm

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Na*	0.01%	0.001%	0.001%	5%
Ni	1 ppm	0.1 ppm	0.1 ppm	10000 ppm
P*	0.001%	0.001%	0.001%	5%
Pb	3 ppm	0.1 ppm	0.01 ppm	10000 ppm
S	0.05%	0.05%	0.02%	10%
Sb	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Sc	-	0.1 ppm	0.1 ppm	100 ppm
Se	-	0.5 ppm	0.1 ppm	100 ppm
Sr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Te	-	0.2 ppm	0.02 ppm	1000 ppm
Th*	2 ppm	0.1 ppm	0.1 ppm	2000 ppm
Ti*	0.01%	0.001%	0.001%	5%
Tl	5 ppm	0.1 ppm	0.02 ppm	1000 ppm
U*	8 ppm	0.1 ppm	0.05 ppm	2000 ppm
V*	1 ppm	2 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	0.05 ppm	100 ppm
Zn	1 ppm	1 ppm	0.1 ppm	10000 ppm
Be*	-	-	0.1 ppm	1000 ppm
Ce*	-	-	0.1 ppm	2000 ppm
Cs*	-	-	0.02 ppm	2000 ppm
Ge*	-	-	0.1 ppm	100 ppm
Hf*	-	-	0.02 ppm	1000 ppm
In	-	-	0.02 ppm	1000 ppm
Li*	-	-	0.1 ppm	2000 ppm
Nb*	-	-	0.02 ppm	2000 ppm
Rb*	-	-	0.1 ppm	2000 ppm
Re	-	-	1 ppb	1000 ppb
Sn*	-	-	0.1 ppm	100 ppm
Ta*	-	-	0.05 ppm	2000 ppm
Y*	-	-	0.01 ppm	2000 ppm
Zr*	-	-	0.1 ppm	2000 ppm
Pt*	-	-	2 ppb	100 ppm
Pd*	-	-	10 ppb	100 ppm
Pb ₂₀₄	-	-	0.01 ppm	10000 ppm
Pb ₂₀₆	-	-	0.01 ppm	10000 ppm
Pb ₂₀₇	-	-	0.01 ppm	10000 ppm
Pb ₂₀₈	-	-	0.01 ppm	10000 ppm

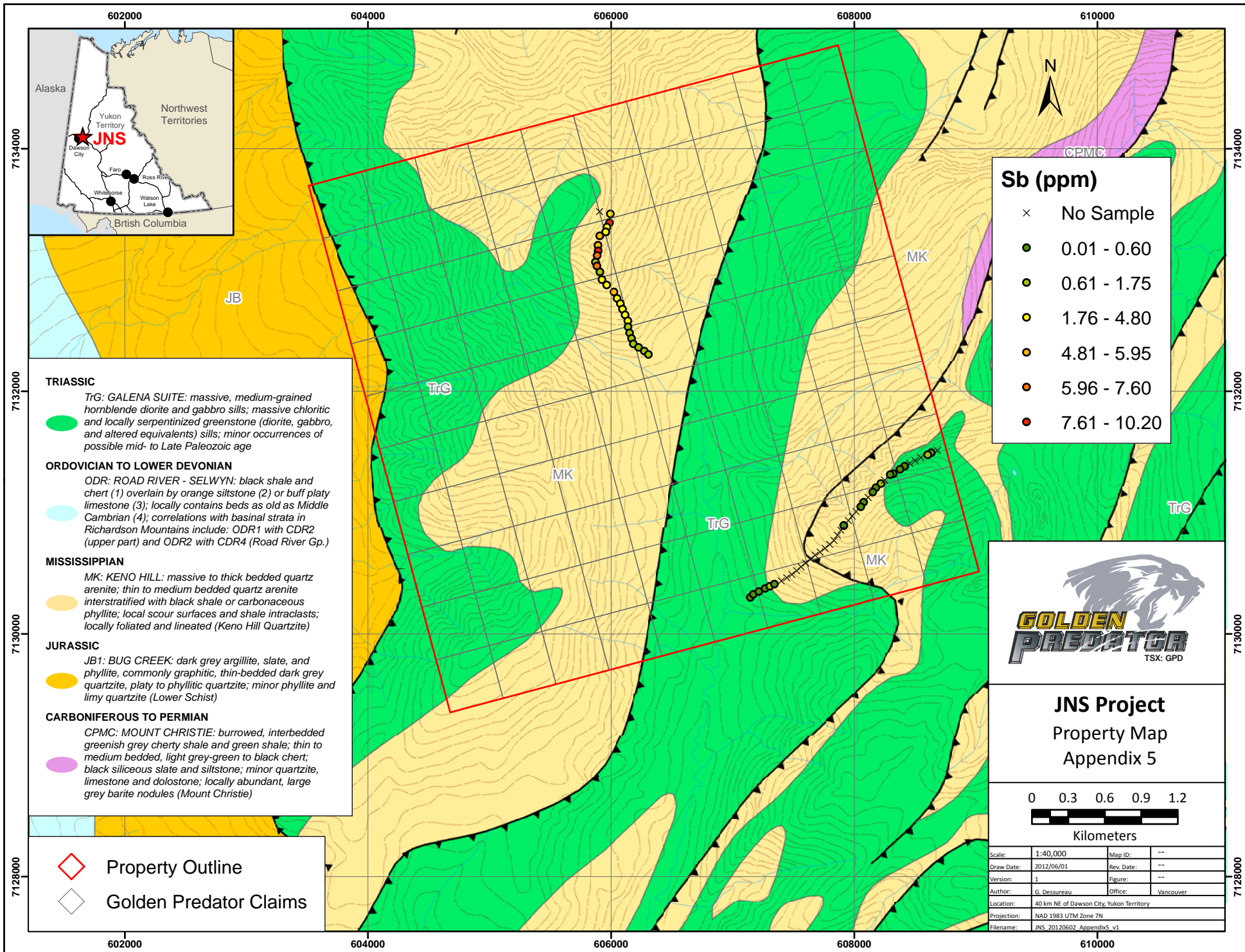
* Solubility of some elements will be limited by mineral species present.

^Detection limit = 1 ppm for 15g / 30g analysis.

Limitations:

Au solubility can be limited by refractory and graphitic samples.

Appendix 5
Soil Geochemical Plots
for Select Elements



Sb (ppm)

- × No Sample
- 0.01 - 0.60
- 0.61 - 1.75
- 1.76 - 4.80
- 4.81 - 5.95
- 5.96 - 7.60
- 7.61 - 10.20

TRIASSIC
TrG: GALENA SUITE: massive, medium-grained hornblende diorite and gabbro sills; massive chloritic and locally serpentinized greenstone (diorite, gabbro, and altered equivalents) sills; minor occurrences of possible mid- to Late Paleozoic age

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.)

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)

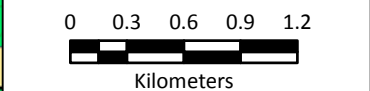
JURASSIC
JB1: BUG CREEK: dark grey argillite, slate, and phyllite, commonly graphitic, thin-bedded dark grey quartzite, platy to phyllitic quartzite; minor phyllite and limy quartzite (Lower Schist)

CARBONIFEROUS TO PERMIAN
CPMC: MOUNT CHRISTIE: burrowed, interbedded greenish grey cherty shale and green shale; thin to medium bedded, light grey-green to black chert; black siliceous slate and siltstone; minor quartzite, limestone and dolostone; locally abundant, large grey barite nodules (Mount Christie)

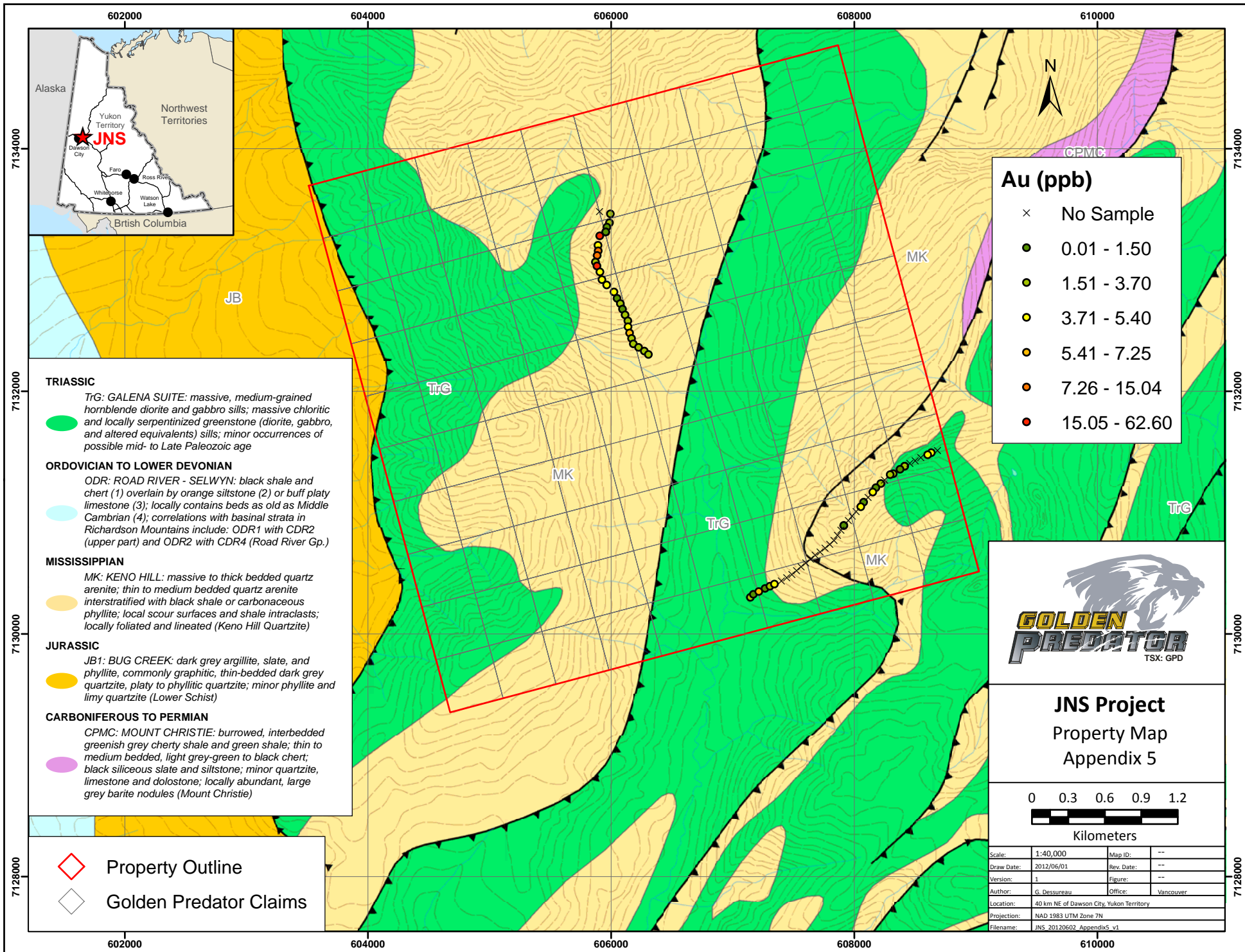
◇ Property Outline
 ◇ Golden Predator Claims



JNS Project
Property Map
Appendix 5



Scale:	1:40,000	Map ID:	--
Draw Date:	2012/06/01	Rev. Date:	--
Version:	1	Figure:	--
Author:	G. Dessureau	Office:	Vancouver
Location:	40 km NE of Dawson City, Yukon Territory		
Projection:	NAD 1983 UTM Zone 7N		
Filename:	JNS_20120602_Appendix5_v1		



Au (ppb)

- × No Sample
- 0.01 - 1.50
- 1.51 - 3.70
- 3.71 - 5.40
- 5.41 - 7.25
- 7.26 - 15.04
- 15.05 - 62.60

TRIASSIC
TrG: GALENA SUITE: massive, medium-grained hornblende diorite and gabbro sills; massive chloritic and locally serpentinized greenstone (diorite, gabbro, and altered equivalents) sills; minor occurrences of possible mid- to Late Paleozoic age

ORDOVICIAN TO LOWER DEVONIAN
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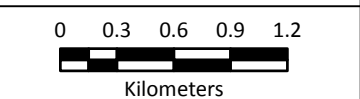
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JB1: BUG CREEK: dark grey argillite, slate, and phyllite, commonly graphitic, thin-bedded dark grey quartzite, platy to phyllitic quartzite; minor phyllite and limy quartzite (Lower Schist)

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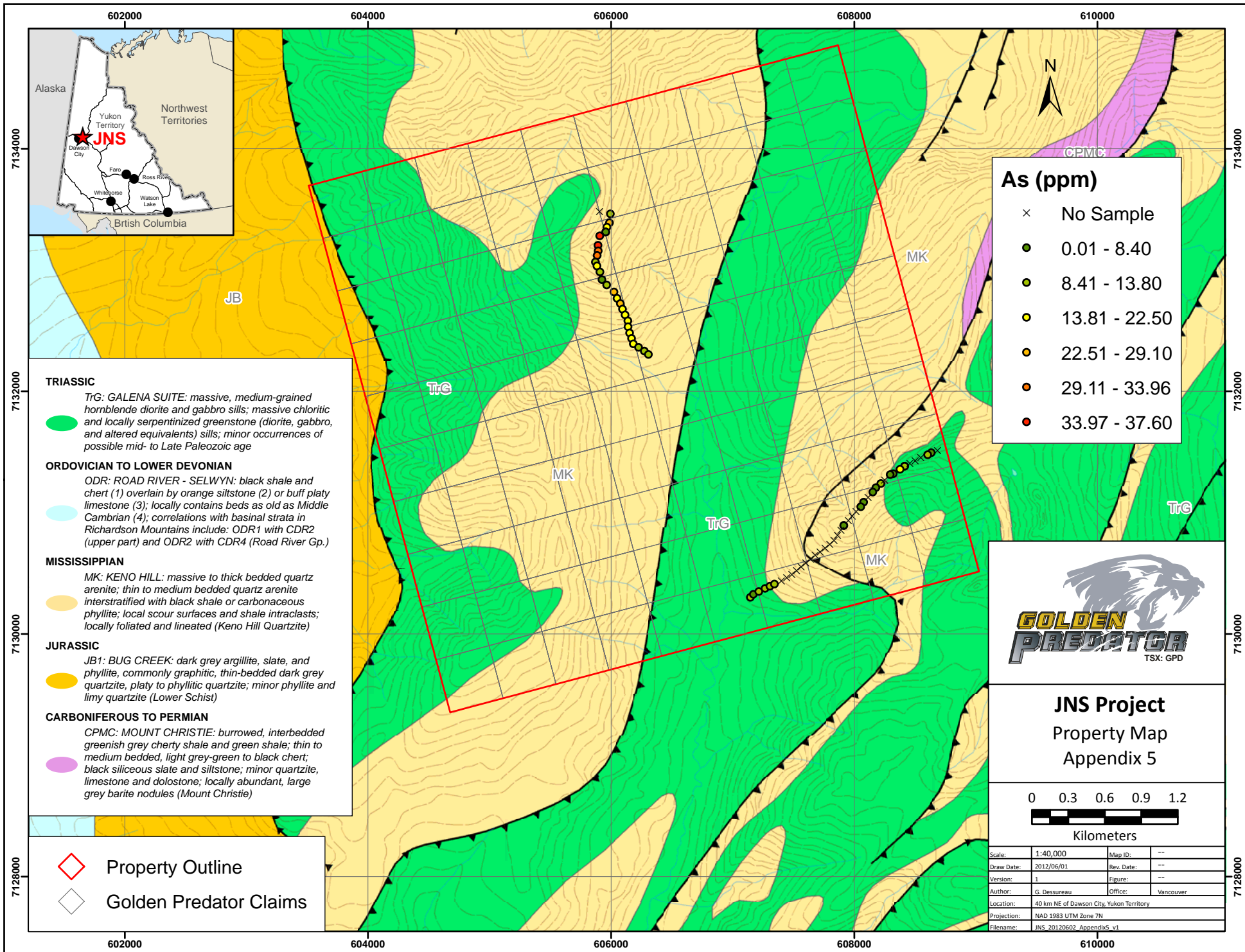


JNS Project
Property Map
Appendix 5



- Property Outline
- Golden Predator Claims

Scale:	1:40,000	Map ID:	--
Draw Date:	2012/06/01	Rev. Date:	--
Version:	1	Figure:	--
Author:	G. Dessureau	Office:	Vancouver
Location:	40 km NE of Dawson City, Yukon Territory		
Projection:	NAD 1983 UTM Zone 7N		
Filename:	JNS_20120602_Appendix5_v1		



As (ppm)

- × No Sample
- 0.01 - 8.40
- 8.41 - 13.80
- 13.81 - 22.50
- 22.51 - 29.10
- 29.11 - 33.96
- 33.97 - 37.60

TRIASSIC
TrG: GALENA SUITE: massive, medium-grained hornblende diorite and gabbro sills; massive chloritic and locally serpentinized greenstone (diorite, gabbro, and altered equivalents) sills; minor occurrences of possible mid- to Late Paleozoic age

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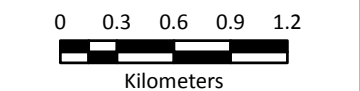
JURASSIC
JB1: BUG CREEK: dark grey argillite, slate, and phyllite, commonly graphitic, thin-bedded dark grey quartzite, platy to phyllitic quartzite; minor phyllite and limy quartzite (Lower Schist)

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◇ Property Outline
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