EVALUATION REPORT
ON THE
ARSENAULT PROPERTY
(WIN and TWIN CLAIMS)
Owned by S. Traynor

Swift River Area

NTS 104 0 13E
Lat. 59°48'N, Long. 131°42'W
Atlin Mining Division
British Columbia, Canada

BY:
STEVE TRAYNOR, B.Sc. (Honours, Geology)
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MARCH 1999
Amended JUNE 1999

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INTRODUCTION

Ongoing research and initial reconaissance served to highlight the mineral potential of this area and resulted in the staking of two 4 post claims, each comprising 20 units.

A detailed program of prospecting and geochemical sampling, which included a re-examination of old trenches and available drill core, was then carried out and provided further evidence that previous investigations focused on the limited skarning in the area have likely overlooked the potential of the property to host volcanogenic massive sulfide mineralization.

AREA LOCATION AND ACCESS

The area is located in central northern B.C. in the northwestern corner of the Jennings River Map Sheet, NTS 104 O and is situated approximately 14 km south of the Alaska Highway where it crosses the Smart River (see Figure 1).

Access to the area was facilitated by the use of a float plane and a helicopter stationed at the Jennings River Outfitters camp at Pine Lake some 17 km to ENE. Initial reconaissance, orientation and staking were completed from a float plane accessible camp on Two Lakes which was abandoned in favor of helicopter supported access during subsequent trips due to the excessive time required to traverse on foot from the camp to the main area of investigation. An old access road constructed in 1971 that once connected the property to the Alaska Highway, was not considered for access as the bridge across the Swift River has long since washed out and the road is now somewhat deteriorated.

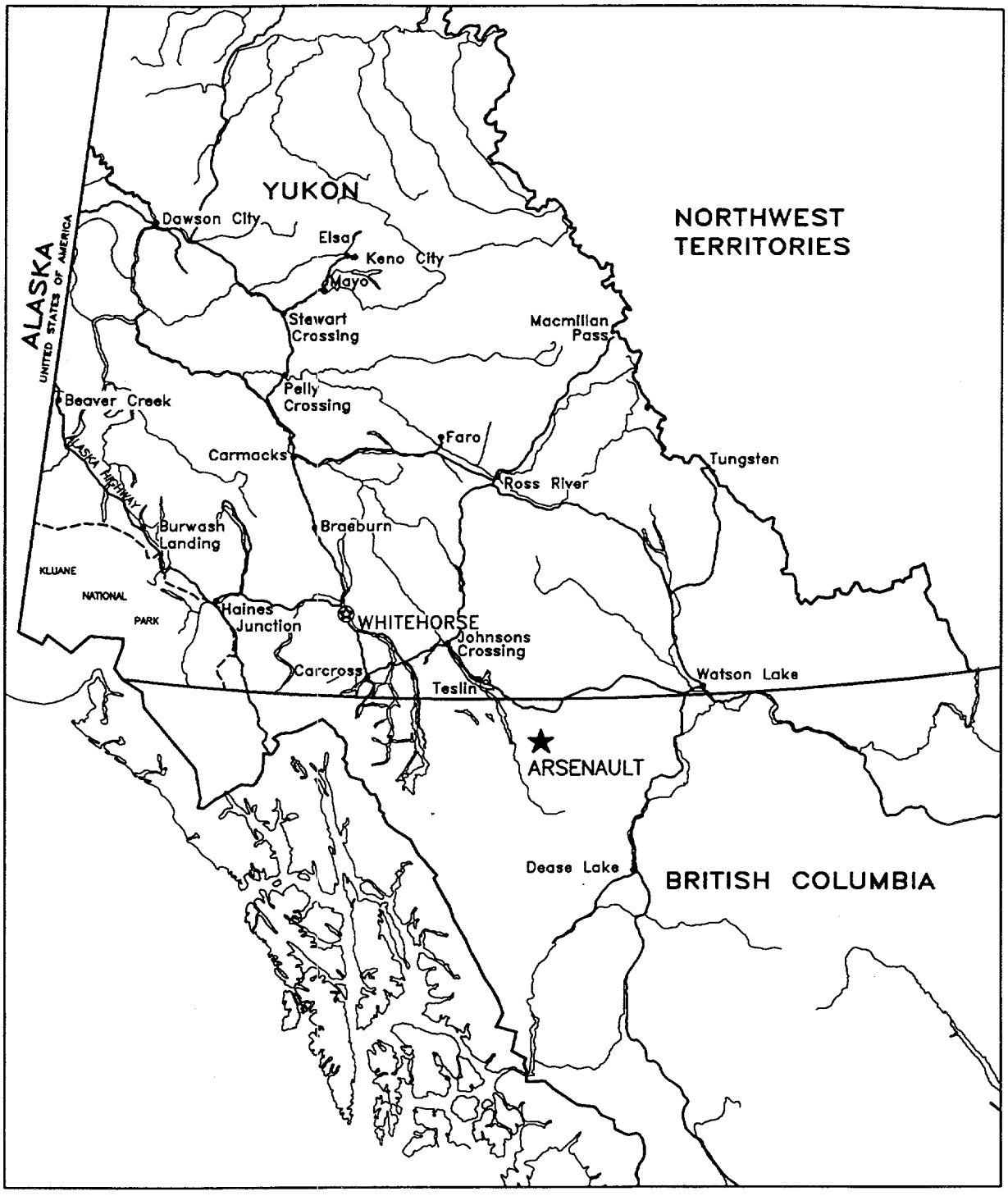
PROPERTY DESCRIPTION

The property currently consists of two 4 post mineral claims each of 20 units that covers 1000 ha. Comprising the majority of the main ridge of Mount Francis the property lies mostly above the 4000 foot level and much of it is above treeline (see Figure 2). The claims are within the Atlin Mining Division and are shown on the Mineral Titles Reference Map 104 O 13E.

Claim Data

Name	Tag #	Tenure#	Units/Shape	Staked	Recorded	Expiry Date*	Owner
Twin	218472	363335	20/5Nx4W	June 12, 1998	June 17, 1998	June 12, 2001	S. Traynor
Win	218473	363336	20/5Nx4W	June 13, 1998	June 17, 1998	June 13, 2001	S. Traynor

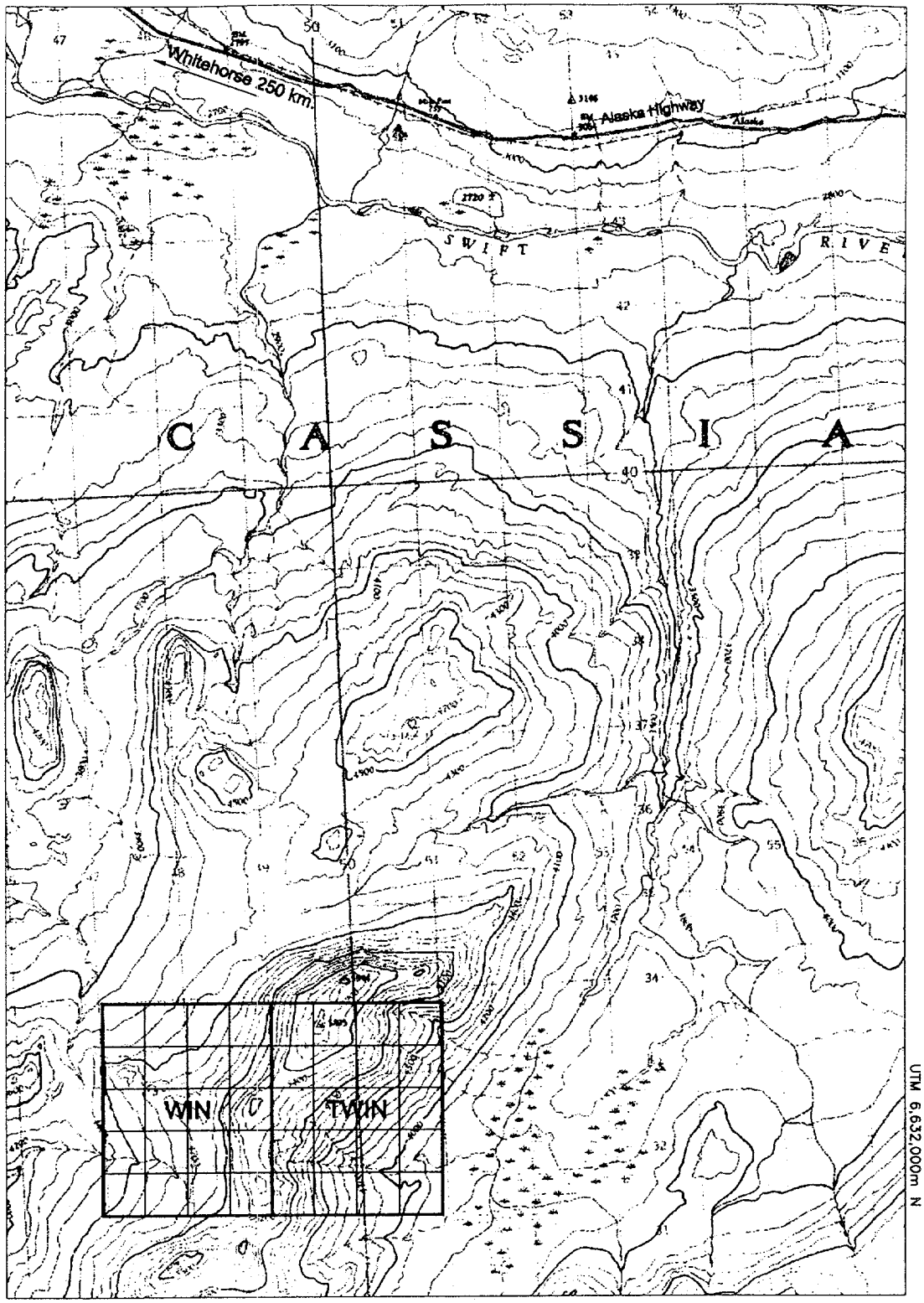
*Upon filing and acceptance of this Evaluation Assesment Report



ARSENAULT PROPERTY
Location Map

Steve Traynor, Geologist

SCALE: 1 : 6,000,000	FILE: BC98_3B	DATE: 99.03.30
NTS:	DRAWN:	FIGURE 1



LEGEND

- Elevation Contour Interval (100 feet)
- Stream, creek
- Claim group boundary
- Claim line

T.N.

ARSENAULT PROPERTY
Claim Map

Steve Traynor, Geologist

SCALE: 1 : 75,000	FILE: BC98_48	DATE: 99.03.30
NTS: 104 O/13	DRAWN:	FIGURE 2

PREVIOUS WORK AND EXPLORATION

It is reported by Sawyer (1979) that copper mineralization was discovered in the area by Wilf McKinnon of Hudson's Bay Mining and Smelting in the 1940's. Subsequent work was concentrated on the Arsenault and adjacent claims in the area around Mt. Francis. Geological and geochemical survey work was undertaken in 1967 and included the excavation of 16 trenches, one of which reportedly yielded an assay result of 0.10 oz/ton Au over 3 meters (Sawyer, 1967). Construction of an access road (now washed out at Swift River), airborne and ground geophysical surveying, geochemical surveying, geological mapping and 1080 meters of diamond drilling in 4 holes, between 1970 and 1972 by Bolivar Mining Corp. Ltd., identified sulfide mineralization containing copper and zinc values – but not of commercial grade. Additional drilling of two holes totaling 675.5 meters by Rebel Developments Ltd. was completed in 1979 and 1981, the former of which contained a 27.6 meter intersection of moderate to heavy sulfides which included 6.7 meters that averaged 0.22% Cu. Two reports for Arnica Resources Ltd. by Ross (1989) and Christopher (1990) served to confirm many of the previous analytical results.

For more detailed information the reader is referred to the numerous reports referrence at the end of this report. Of note here though is the fact that invariably previous investigations have focused almost exclusively on the limited skarning in the area while the more important massive sulfide potential of the area has been largely ingnored.

REGIONAL AND PROPERTY GEOLOGY

Situated on the Nisutlin Plateau in northern B.C. the area is underlain by an assemblage of volcanic and sedimentary rocks, metamorphosed to greenschist grades, which lie to the east of the Teslin Fault. Lying within the Big Salmon Complex these rocks are thought to represent the southern extension of the Yukon-Tanana terrance which is currently being explored for massive sulfide deposits formed in volcanogenic settings since the discovery of the Kudz ze Kayah deposit of Cominco and the Wolverine deposit of Atna/Expatriate.

Locally on the property a variety of micaceous schists, quartzites and actinolite (chlorite-magnetite) schists are found. The mafic schists occasionally are interbedded with carbonate rich layers and less frequently with quartzites, petrographic analysis of thin sections taken from samples of most of these

units suggests intermediate to mafic volcanics as the most likely protoliths.

The diopside-garnet skarn complexes targeted during previous explorations are confined to the east-west trending lower ridge in the western central part of the property and are apparently contained in the upper horizons of the stratigraphy in the area. Although the calc-silicate mineralogy of these rocks is suggestive of skarn, no causative intrusion has been found and the interpretation of available drill logs suggests that the massive sulfide mineralization encountered in the drill holes have a syngentic origin as originally proposed by Sawyer (1979) and favored by Mihalynuk (1998). In fact the presence of hematite and a number of Mn bearing minerals, including piedmontite, associated with sulfide mineralization in greenstone as described in the drill logs for hole 79-2, suggests that this mineralization may in fact be related to the barium-manganese-rich rocks of the crinkle chert unit described by Mihalynuk (1998) which outcrops to the SW of where the drill hole was collared and for which Nelson (1997) has proposed an exhalative origin. This unit forms a distinctive marker horizon throughout much of the project area and at most localities is found to be underlain by carbonate and overlain by greenstone.

Mineralization consisting mainly of pyrite and chalcopyrite is dominant and is found at surface associated with the actinolite (chlorite) schists and the quartzites and occurs mainly as fine disseminations and blebs, but occassionally as semi-massive accumulations. Some samples contain late carbonate and chlorite veinlets which cut across the metamorphic fabric, but the chalcopyrite (where present) shows no obvious relationship to these and appears to belong to an earlier phase of mineralization (B. Northcote, personal communication see Appendix D), suggesting that it was deposited contemperaneously with the volcano-sedimentary lithologies that host it.

Chalcopyrite is also found associated with the 'Arsenault' dacite tuff of Mihalynuk (1998), the unit that apparently hosts two other chalcopyrite occurrences first identified by Sawyer in 1967 that appear to have received little attention since.

DESCRIPTION AND SUMMARY OF WORK

Investigations during the 1998 field season focussed on evaluating the claims staked in the Mount Francis area for their potential to host volcanogenic massive sulfides. Orientation and reconaissance of the property were carried out in conjunction with staking during mid June. Preliminary prospecting revealed

widespread disseminated sulfide mineralization and a number of lithologies of specific interest.

Following a review of the existing data, more detailed prospecting and sampling was carried out from August 14 – 21, 1998 on the western flank of the mountain in an area overlooking the site(s) of previous investigations (see Figure 3). This phase of the evaluation involved the collection, for analysis, of 54 soil samples from an area that had previously produced a number of interesting Cu values and grab sampling of various lithologies in the immediate area. In addition, core available on the property from the 1971 drilling program was studied and sampled. Unfortunately, core from the 1979 and 1981 drilling which contained the reported massive sulfide intersections was not located on the property and subsequent inquires in Whitehorse failed to determine its whereabouts.

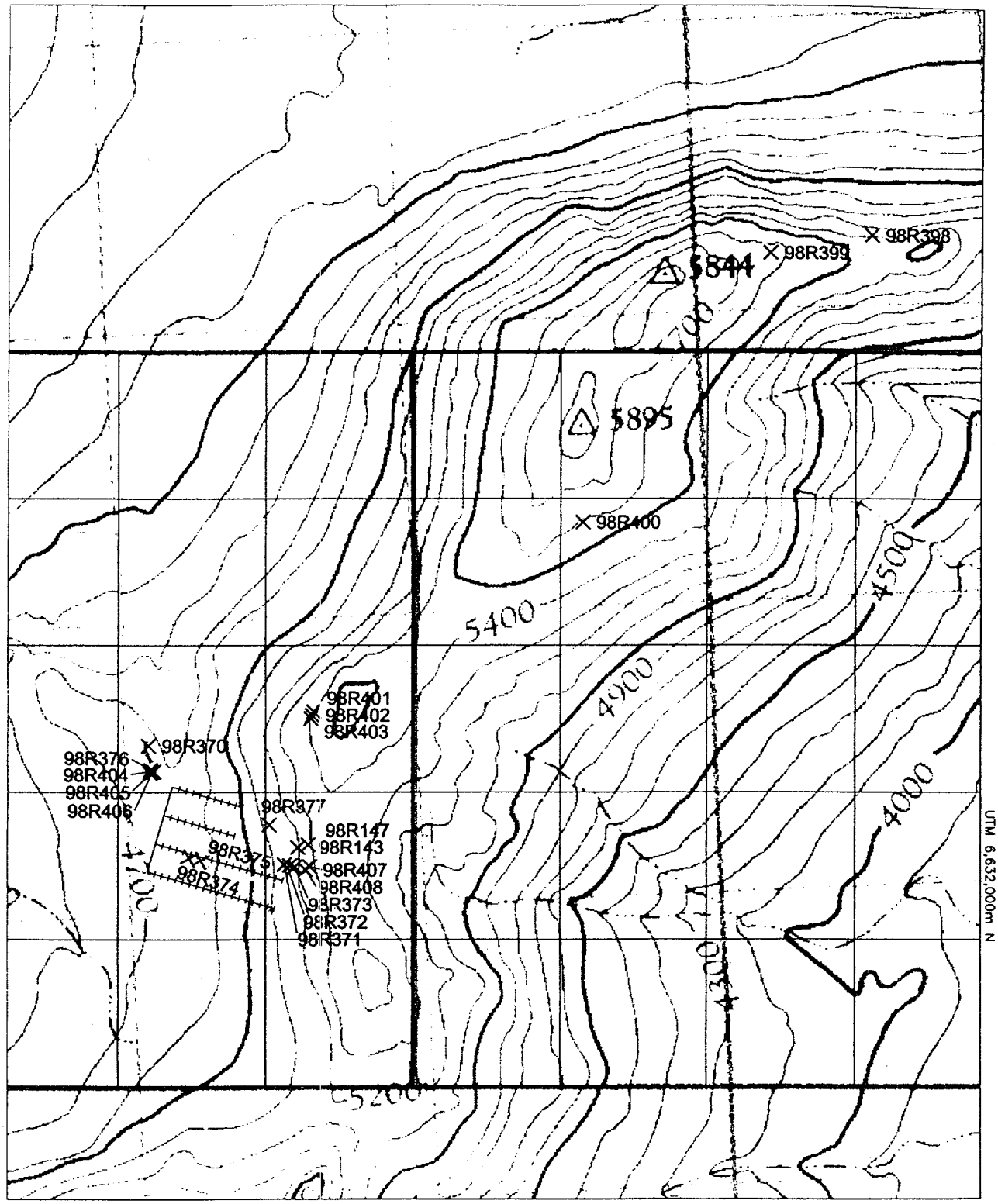
Soil samples were taken along picket lines at 25 meter intervals. Samples consisted of approximately 100 to 150 grams of material taken from the yellowish brown silty "B" horizon when present but alternately from the "C" horizon which contained a slightly higher clay content. Samples were collected using a hand auger from a depth of 30 to 40 centimeters, placed in wet strength Kraft paper envelopes, air dried and shipped to Bondar Clegg for analysis. Each of the 54 samples was analysed for 34 elements using standard ICP methods and for gold using a 30g Fire Assay with an AA finish.

Two additional days were spent in followup on the property in mid September (September 16 and 17, 1998) and involved additional prospecting and sampling on the main ridge of the mountain and around the gridded area sampled in August to determine if extensions to zones identified at that time could be extended along strike.

ANALYSIS AND INTERPRETATION

Analysis of sampled material produced numerous highly significant results, particularly from the the upper ridge area. Rock sample descriptions, complete analytical results and methodology and selected thin section descriptions and petrographic reports are presented in the Appendicies of this report.

The results of the soil geochemistry show a number of well defined copper anomalies within the gridded area (see Figure 4) that appearently parallel the prevailing strike in this area. Values in excess of two hundred (200) parts per million for copper are taken as anomalous and the contours at 200 ppm, 400 ppm and 600 ppm have been drawn in. The upper most of these anomalies defined occurs coincident



LEGEND

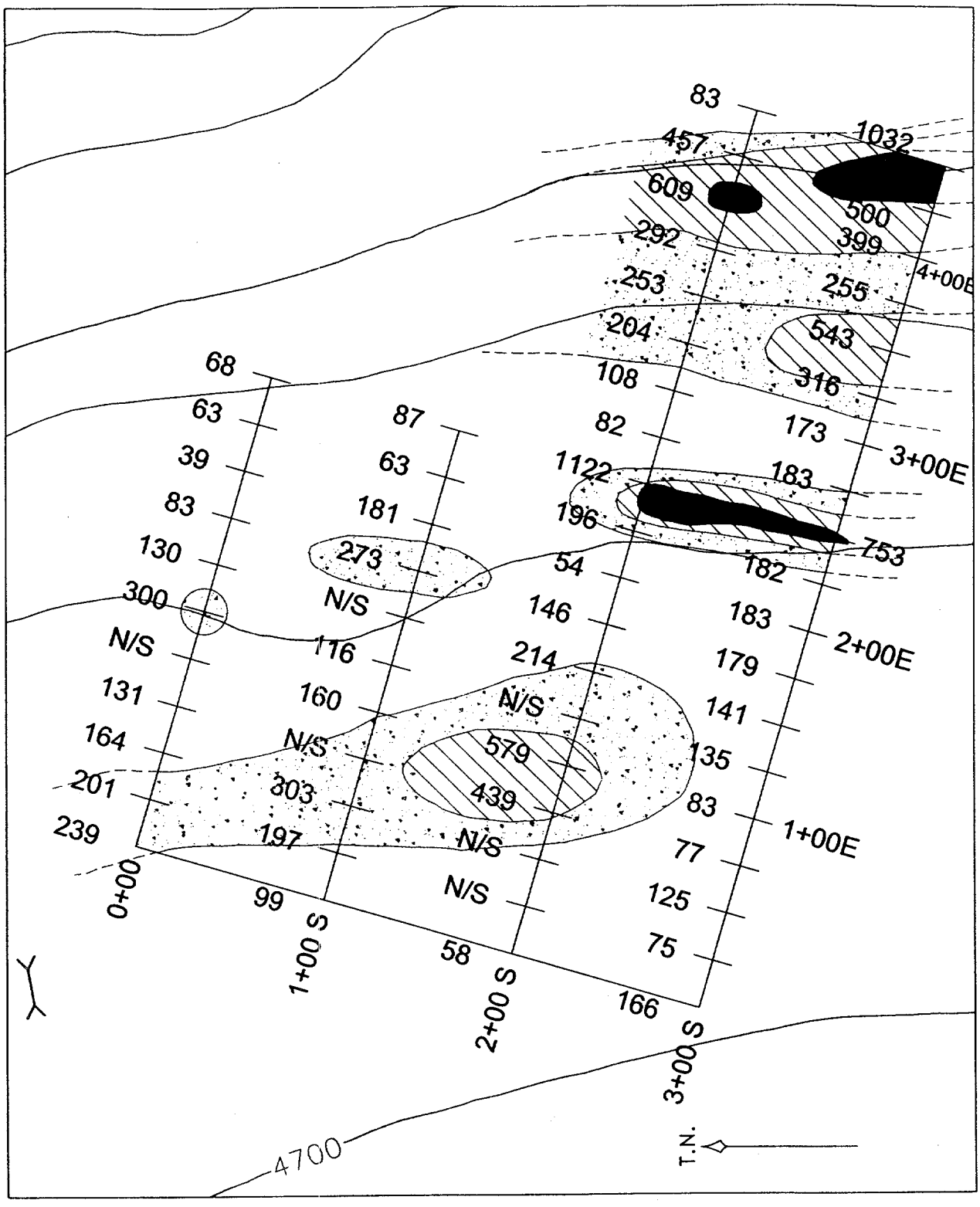
- Elevation Contour Interval (100 feet)
- Stream, creek
- Claim group boundary
- Claim line
- X 98R377 Rock sample location, number

T.N.

ARSENAULT PROPERTY
Sample Location Map

Steve Traynor, Geologist

SCALE: 1 : 20,000	FILE: BC98_5A	DATE: 99.06.25
NTS: 104 O/13	DRAWN:	FIGURE 3



ARSENAULT PROPERTY
Copper Geochem in Soils - Grid Area

Steve Traynor, Geologist

SCALE: 1 : 3,000	FILE: BC98_6A	DATE: 99.06.25
NTS: 104 O/13	DRAWN:	FIGURE 4

with outcroppings of chlorite-actinolite schist, sampled as part of the work program that returned high Cu and Au values, and is interpreted as an expression of the mineralization contained in the bedrock. Downslope a smaller, less well defined anomaly that contains peak values comparable to the upper anomaly was also detected, but due to an increasing depth of accumulated talus in the area could not be directly related to a bedrock source. A third, much weaker feature is seen in the lower part of the grid and its coincidence with the surface depression associated with an inferred fault in this area, suggests that it is a false anomaly produced by the accumulation of mineralized material from up slope within the faulted depression. A visual review of the rest of the analytical data obtained from the soil sampling, suggests a possible correlation between Au and possibly Co with Cu in the soils, but a larger sample population will be necessary before this could be statisically determined.

Chip sampling of an old trench just NW of the soil grid, which contained quartzite showing abundant malachite staining, returned 0.46% Cu and 1.3g/t Au over 7.5 meters. Petrographic analysis of this unit suggests a protolith that was probably a mafic to intermediate volcanic.

Descriptions from drill logs and historic reports suggests that the actinolite-chlorite schist sampled from the upper ridge area is quite probably the same unit ("mafic D unit") that contained the massive sulfide mineralization intersected during the 1979 and 1981 drill programs. This unit has been found in mineralized outcrop (high Cu and elevated Au) over an extended strike length and occurs over the entire 2+ km. length of the main ridge (Mihalynuk (unpublished mapping and field notes)).

CONCLUSIONS AND RECOMMENDATIONS

Compilation of the results of the 1998 work program in conjunction with a re-evaluation of existing data has shown that the Arsenault property has a high probability of hosting volcanogenic massive sulfide mineralization. Reconaissance soil sampling and lithological grab sampling have revealed a highly anomalous and mineralized band of intermediate to mafic volcanic rocks exposed on the ridge overlooking the area in which previous investigations were focused.

This band of rock which includes carbonate altered quartzites and schists, including an actinolite-chlorite-(magnetite) rich member thought to host the massive sulfide mineralization previously intersected on the property, is known to occur along the entire length of the main Mt. Francis ridge. A review of two geophysical reports by Walcott (1970 and 1972) shows a well defined linear magnetic trend coincident

with the inferred extent of these rocks. Further analysis of I.P. data from the same reports shows the presence of a number of strong anomalies also associated with this trend that show good correlation with the elevated soil geochemical responses discussed above.

In light of the numerous positive indications of the potential for mineralization on the property further work is definitely recommended. Grid development and additional soil geochemical sampling should be completed to close off the open anomalies identified during the 1998 season. In addition and in conjuction with this work more detailed sampling and mapping aimed at delineating the extent of the prospective package of rocks exposed along the main ridge should be carried out as soon as conditions permit during the 1999 season.

GEOLOGISTS'S CERTIFICATE

I, Steve Traynor, of 214 Alsek Road, Whitehorse , in the Territory of the Yukon,
DO HEREBY CERTIFY:

1. THAT I am a Geologist practising my profession in Whitehorse, Yukon.

2. THAT I am a graduate of Queen's University (1982), Kingston, Ontario with a B.Sc. (Honours) degree in Geology.

3. THAT I have been engaged in mineral exploration for thirteen years in the Yukon, British Columbia, Manitoba, Ontario and Quebec.

4. THAT this report in based on work that I completed and/or supervised during the period from August 14 – 21, 1998 and September 16 – 17, 1998 on the Arsenault property.

SIGNED at Whitehorse, Yukon Territory, this 27th day of June, 1999.

Steve Traynor, B.Sc.

REFERENCES

Christopher, Peter A., 1990: Geological, Geochemical, Geophyscial and Trenching Report on the Fidelity Prospect; B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Report 20137.

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Sawyer, J.B.P., 1967: Geological, Geochemical and Geophysical Report for Assessment Credit on the Top Claim Group; B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Report 1149.

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Walcott, Peter E., 1972: A Report on Ground Magnetic and Induced Polarization Surveys; B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Report 3502.

STATEMENT OF EXPENDITURES

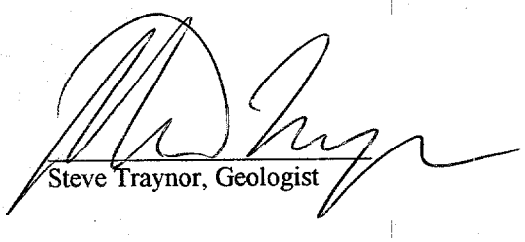
CANADA -- In the matter of geochemical and prospecting assessment work filed on the WIN and TWIN mineral claims, collectively known as the Arsenault property.

I, Steve Traynor a geologist living in Whitehorse, Yukon do solemnly declare that a program consisting of geochemical sampling and prospecting was carried out on the WIN and TWIN mineral claims during the period from August 14 – 21, 1998 and September 16 – 17, 1998. The following expenses were incurred during the course of this work and in the compilation and reporting of the results.

Geological supervision, prospecting and sampling:		
	S. Traynor, Geologist/Prospector, 9 days @ $200.00	$ 1,800.00
Prospecting and geochemical sampling:		
	Wade Carrell, Prospector/Assistant, 9 days @ $150.00	1,350.00
Camp, Supplies and Support:	18 man days @ $60.00	1,080.00
Transportaion:	Discovery Helicopters Ltd.	2,100.60
Assay and Analysis:	Various analysis of samples, rock and soils	2,088.95
	Petrographic report and thin section preparation	470.26
	Shipping costs to Bondar Clegg in Vancouver, B.C.	79.35
Report Preparation and Maps:		640.42
TOTAL COST		**$ 9,609.58**

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Dated at Whitehorse in the Territory of the Yukon this 27th day of June, 1999.



Steve Traynor, Geologist

APPENDIX A

PROSPECTING
OBSERVATIONS

The following write-up includes observations made during the completion of prospecting work carried out as part of an evaluation of the Arsenault Property (WIN and TWIN claims) and provides a keyed descprition of the traverses shown on Figure 5.

Traverse

1-1 An orientation traverse to locate and investigate the skarnified area that was the focus of most of the previous investigations in this area. Prospected lower trenches, including main Arsenault trench. Area consisted of mostly metamorphosed sedimentary rocks, predominately dirty sandstones and minor limestone interbedded with quartz rich, biotite schists. Skarns contained minor magnetite and chalcopyrite, but were found to be poorly developed and of limited extent at surface.

1-2 This traverse served to locate upper trenches and investigate the ridge overlooking site of proposed soil sampling grid. Sulfide mineralization consisting of chalcopyrite, bornite and pyrite hosted in a slightly skarnified chlorite schist was grab sampled from one of the trenches. A roughly north-south trending fault is delineated by a deep depression lying just east of the trenches. The rocks to the east of the fault appear to be upthrust from a deeper level and may represent an extension of sulfide bearing stratigraphy intersected in previous drilling. Chlorite-actinolite schist containing adundant disseminated sulfides sampled on the face of the overlooking ridge appears to support this hypothesis. Often interbedded with quartz>>sericite schist these units are very iron stained and often magnetic and may be similar to those producing the well developed gossans that are evident along strike on the north face of Mt. Francis.

1-3 Designed to investigate the area immediately west of the previously identified fault, this traverse covered an area west from the centre of the soil grid. Investigations were limited to large, near source, frost heaved blocks of felsmeer composed of quartz>>biotite schist with up to 5% disseminated sulfides, including minor disseminated chalcopyrite. A trench just NW of the soil grid, that previously produced elevated Au values was investigated and a grab sample taken. The trench contained rock that was almost entirely composed of quartz and contained abundant disseminated chalcopyrite.

1-4 The discovery of chlorite-magnetite schist with up to 8% disseminated sulfides just west of camp resulted in the decision to complete a traverse over this area. The rocks to the west were found to be predominately clean quartzites with occasional copper staining and minor amounts of quartz-chlorite-actinolite schist infolded. Further to the west, before the topography dropped off towards Swift Lake, graphitic metasediments prevailed and probably represent the upper levels of the stratigraphic package in the area. Float composed of piedmontite schist was also noted and was likely derived from an exhalative horizon previously noted in this area.

2-1 This traverse started from a helicopter setout on the north end of Mt. Francis was intended to investigate the gossans exposed along the north face of the mountain. Outcroppings along the main ridge were investigated and consisted of quartzites that were occasionally slightly chloritized and often contained a few percent sulfides, consisting of pyrite and pyrrhotite. Recent snowfall that persisted on the north face itself made investigation of the gossans there impossible. Working back to the south along the main peaks revealed the same greyish quartzite with some interbedded limestone present just south of the main peak.

2-2 Based on the hypothesis that the chlorite schist identified on the ridge face overlooking the soil grid probably extends along strike to the NE this helicopter supported traverse was carried out to identify additional outcroppings of this unit and was succesful in locating a well exposed showing that was sampled as 98R401-403. Sampling along what may be an isoclinal fold nose produced high Cu and elevated Au values in all samples. Sulfides consisting mainly of pyrite, but with a fair amount of chalcopyrite was present in volumes up to 30% and was at times semi-massive in character. The rock itself was a very chloritic actinolite schist interbedded with carbonate rich quartzites. Detailed chip sampling of the trench investigated during the course of

Traverse 1-3 was completed with 3 samples, each covering 2.5m being collected. Favorable results obtained in the course of sampling during Traverse 1-2 were also followed up with more detailed prospecting and sampling on the overlooking ridge and identified additional occurrences of chlorite-actinolite schsit that returned some of the highest values so far for this unit.

The preceeding write up is based on observations that I made during the course of my work to re-evaluate the Arsenault area and specifically the WIN and TWIN claims for their massive sulfide potential.

Respectfully submitted,

Steve Traynor, Geologist

APPENDIX B

ROCK SAMPLE REPORT

ROCK SAMPLE REPORT

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	ANALYTICAL HIGHLIGHTS
98R143	Ridge above soil grid	Silicified actinolite (chlorite) schist with 2% sulfides.	Highly elevated Cu (9754 ppm) and anomalous Au and Ag values.
98R147	Ridge above soil grid	Chlorite-biotite schist with minor quarzite, showing malachite staining.	Very high Cu (9772 ppm) and Au (121ppb)
98R365	Western edge of claim block	Float, chlorite-magnetite schist with 8% sulfides including pyrite, chalcopyrite and bornite (?).	Elevated Cu value of 549 ppm.
98R366	Core - DDH 71-4 at ~240 ft.	Quartz-chlorite-magnetite schist with 15% sulfides, mainly pyrite with minor chalcopyrite.	Elevated Cu values.
98R367	Core - DDH 71-4 at ~500 ft.	Chlorite rich quartzite with 2-3% chalcopyrite as disseminations. Non magnetic.	Elevated Cu and Au values.
98R368	Core - DDH 71-4 at ~930 to 933 ft.	Chlorite-magnetite schist with some quartz with 15-20% disseminated to semi-massive sulfides, mostly pyrite.	Elevated Cu, Co and Au values.
98R369	Core - DDH 71-4 at ~360 ft.	Quartz>chlorite>biotite schist with 3% sulfides, including pyrite, chalcopyrite and bornite (?).	Elevated Cu values.
98R 370	Trench 8	Slightly skarnified chloritic schist with 4% sulfides.	High Cu and Au values (5114ppm and 147 ppb, respectively)
98R371	Ridge above soil grid	Actinolite >>chlorite schist with 5% finely disseminated sulfides, showing minor malachite staining.	
98R372	Ridge above soil grid	Taken from 3-5m wide band of iron stained talus, rock is quite chloritic and shows abundant malachite stain.	Elevated Cu values.
98R373	Ridge above soil grid	Very fine grained, silicified chloritic rock that is moderately magnetic. It is interbedded with quartz>>sericite schist.	Elevated Cu, Au and Hg values.
98R374	215 S/125 E on the soil grid	Large felsemeer blocks of quartz>>biotite schist with some chlorite developed. Sulfides to 5% with minor chalcopyrite.	
98R375	212 S/259 E on the soil grid	Grey quartz>>biotite schist that appears chloritized with 2% sulfides and minor malachite staining.	High Cu (7879 ppm) and elevated Au.
98R376	Trench 10	Massive, recrystalized (?) quartzite with 6% sulfides, including pyrite and chalcopyrite with malachite staining.	Very high Cu (1.3%), Au (1479 ppb) values and Hg (112ppb) values..
98R377	Ridge above soil grid	Well silicified, finely laminated argillite (?) float with 2% sulfides.	
98R398	North end of Mount Francis	Chloritized quartzite with finely disseminated sulfides.	
98R399	North end of Mount Francis	Greyish quartzite with 5% sulfides along schistosity and blebs throughout, mostly pyrite and pyrrhotite.	
98R400	Central part of main ridge	Slightly chloritic fine grained quartzite with 2% disseminated sulfides.	Elevated Cu values.
98R401	West flank of main ridge	1/2m thick layer of chloritic actinolite (?) schist bedded with carbonate rich layer. Sulfide content to 30% is semi-massive pyrite and chalcopyrite.	High Cu (4689 ppm) and elevated Au values.
98R402	West flank of main ridge	Same as 98R401, 5m along strike to the SW.	Elevated Cu an Co values.
98R403	West flank of main ridge	Same as 98R401, 10m along strike to the SW.	High Cu (4325 ppm) and elevated Au values.
98R404	Trench 10	2.5m chip sample of massive recrystalized quartzite.	98R404, 405 & 406 average 0.46% Cu and 1.3g/t Au over 7.5 m width.

ROCK SAMPLE REPORT, continued

SAMPLE NUMBER	SAMPLE PARTICULARS	SAMPLE DESCRIPTION	ANALYTICAL HIGHLIGHTS
98R405	Trench 10	2.5m chip sample of massive recrystalized quartzite.	98R404, 405 & 406 average 0.46% Cu and 1.3g/t Au over 7.5 m width.
98R406	Trench 10	2.5m chip sample of massive recrystalized quartzite.	98R404, 405 & 406 average 0.46% Cu and 1.3g/t Au over 7.5 m width.
98R407	Ridge above soil grid	Thinly laminated, very schistose actinolite schist showing abundant malachite staining and sulfides to 2%.	Very high Cu (9099 ppm) and Au (307 ppb) values.
98R408	Ridge above soil grid	Similar to 98R407 but contains some interbedded quartzite and is magnetic.	Anomalous Cu values.

APPENDIX C

CERTIFICATES
OF
ANALYSIS

ITS Intertek Testing Services
Bondar Clegg

Geochemical
Lab
Report

MR. STEVE TRAYNOR
BOX 4375
WHITEHORSE, YUKON
Y1A 3T5

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

REPORT: V98-01535.1 (COMPLETE) REFERENCE:

CLIENT: MR. STEVE TRAYNOR SUBMITTED BY: S. TRAYNOR

PROJECT: ARSENAULT DATE RECEIVED: 26-AUG-98 DATE PRINTED: 4-SEP-98

DATE APPROVED	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD
980902	1 Au30	Gold	3	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
980902	2 Ag	Silver	1	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	3 Cu	Copper	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	4 Pb	Lead	1	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	5 Zn	Zinc	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	6 Mo	Molybdenum	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	7 Ni	Nickel	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	8 Co	Cobalt	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	9 Cd	Cadmium	1	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	10 Bi	Bismuth	1	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	11 As	Arsenic	1	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	12 Sb	Antimony	1	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	13 Fe	Iron	1	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	14 Mn	Manganese	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	15 Te	Tellurium	1	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	16 Ba	Barium	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	17 Cr	Chromium	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	18 V	Vanadium	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	19 Sn	Tin	1	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	20 W	Tungsten	1	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	21 La	Lanthanum	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	22 Al	Aluminum	1	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	23 Mg	Magnesium	1	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	24 Ca	Calcium	1	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	25 Na	Sodium	1	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	26 K	Potassium	1	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	27 Sr	Strontium	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	28 Y	Yttrium	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	29 Ga	Gallium	1	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	30 Li	Lithium	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	31 Nb	Niobium	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	32 Sc	Scandium	1	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	33 Ta	Tantalum	1	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	34 Ti	Titanium	1	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	35 Zr	Zirconium	1	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980902	36 Ag	Silver	2	0.5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	37 Cu	Copper	2	1 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	38 Pb	Lead	2	2 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	39 Zn	Zinc	2	2 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	40 Mo	Molybdenum	2	1 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	41 Ni	Nickel	2	1 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	42 Co	Cobalt	2	1 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	43 Cd	Cadmium	2	1 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	44 Bi	Bismuth	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	45 As	Arsenic	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	46 Sb	Antimony	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	47 Fe Tot	Total Iron	2	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	48 Mn	Manganese	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	49 Te	Tellurium	2	25 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	50 Ba	Barium	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	51 Cr	Chrome	2	2 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	52 V	Vanadium	2	2 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	53 Sn	Tin	2	20 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	54 W	Tungsten	2	20 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	55 La	Lanthanum	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	56 Al	Aluminum	2	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	57 Mg	Magnesium	2	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	58 Ca	Calcium	2	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	59 Na	Sodium	2	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	60 K	Potassium	2	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	61 Sr	Strontium	2	1 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	62 Y	Yttrium	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	63 Ga	Gallium	2	10 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	64 Li	Lithium	2	2 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	65 Nb	Niobium	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	66 Sc	Scandium	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	67 Ta	Tantalum	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	68 Ti	Titanium	2	0.01 PCT	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA
980902	69 Zr	Zirconium	2	5 PPM	HF-HNO3-HCLO4-HCL	INDUC. COUP. PLASMA

Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

REPORT: V98-01535.1 (COMPLETE)

REFERENCE:

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

SUBMITTED BY: S. TRAYNOR

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 4-SEP-98

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK	3	2 -150	3	CRUSH ONLY	4
				CRUSH, SPLIT	10
				PULVERIZATION	14

REPORT COPIES TO: BOX 4375

INVOICE TO: BOX 4375

Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01535.1 (COMPLETE)

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 4-SEP-98 PAGE 1A(1/ 4)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM
98R143		60																																		2.2	9754	38	148	10
98R365		9	<.2	549	5	36	1	18	46	<.2	<5	<5	<5	9.44	585	<10	23	22	24	<20	<20	2	1.30	1.25	3.12	0.19	0.06	44	2	<2	8	4	<5	<10	0.03	<1					
98R370		147																																		0.6	5114	21	75	4

Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe Tot PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
98R143		10	14	<1	7	<5	<5	9.42	1413	<25	9	78	13	25	<20	<5	0.78	2.32	8.16	0.20	0.08	93	9	<10	4	<5	<5	6	0.07	14
98R365																														
98R370		17	30	<1	<5	14	<5	>10.00	1615	<25	7	122	32	<20	<20	<5	1.81	1.10	>10.00	0.24	0.03	300	16	<10	5	7	<5	9	0.11	19

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR
PROJECT: ARSENAULT
REPORT: V98-01535.1 (COMPLETE)
DATE RECEIVED: 26-AUG-98 DATE PRINTED: 4-SEP-98 PAGE 2A(3/ 4)

STANDARD NAME	ELEMENT UNITS	Au30 PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM
CANMET STREAM-SED	-	<.2	33	29	137	1	18	12	0.6	<5	17	<5	3.43	3299	<10	238	22	41	<20	<20	20	1.16	0.81	1.64	0.03	0.07	30	22	<2	8	3	<5	<10	0.03	<1	<.5	34	38	184	1
Number of Analyses	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	-	0.1	33	29	137	1	18	12	0.6	3	17	3	3.43	3299	5	238	22	41	10	10	20	1.16	0.81	1.64	0.03	0.07	30	22	1	8	3	3	5	0.03	0.5	0.3	34	38	184	1
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	0.3	36	34	165	2	18	14	0.8	-	17	2	3.50	3740	-	-	28	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	36	35	178	2
ANALYTICAL BLANK	<5	<.2	<1	<2	<1	<1	<1	<1	<.2	<5	<5	<5	<.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1	<.5	<1	<2	<2	<1
Number of Analyses	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	3	0.1	0.5	1	0.5	0.5	0.5	0.5	0.1	3	3	3	.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	.005	0.5	0.3	0.5	1	1	0.5
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	5	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.01	.01	.01	<.01	<.01	<.01	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	<.01	.01	0.2	1	2	1	1
Gannet Ref.Material	2333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	2333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	2520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01535.1 (COMPLETE)

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 4-SEP-98 PAGE 2B(4/ 4)

STANDARD NAME	ELEMENT UNITS	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe Tot PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
CANMET STREAM-SED		24	21	<1	<5	23	<5	4.36	3856	<25	576	48	89	<20	<20	25	4.51	1.30	2.75	1.27	0.97	177	34	<10	10	6	11	5	0.34	74
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		24	21	0.5	3	23	3	4.36	3856	13	576	48	89	10	10	25	4.51	1.30	2.75	1.27	0.97	177	34	5	10	6	11	5	0.34	74
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		24	17	0.8	-	23	3	4.70	3950	-	630	67	98	4	-	30	4.80	1.33	2.57	1.30	1.04	170	42	-	11	5	14	0.4	0.45	87
ANALYTICAL BLANK		<1	<1	<1	<5	<5	<5	<0.01	7	<25	<5	<2	<2	<20	<20	<5	<.01	<.01	<0.01	0.01	<.01	<1	<5	<10	<2	<5	<5	<5	<.01	<5
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.5	0.5	0.5	3	3	3	0.005	7	13	3	1	1	10	10	3	.005	.005	0.005	0.01	.005	0.5	3	5	1	3	3	3	.005	3
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		1	1	0.5	2	5	5	0.05	1	.01	.01	1	1	.01	.01	.01	-	<.01	<.0001	-	<.01	.01	.01	.01	.01	.01	.01	.01	<.01	.01
Gannet Ref.Material		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

MR. STEVE TRAYNOR
BOX 4375
WHITEHORSE, YUKON
Y1A 3T5

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

REPORT: V98-01535.0 (COMPLETE)

REFERENCE:

CLIENT: MR. STEVE TRAYNOR

SUBMITTED BY: S. TRAYNOR

PROJECT: ARSENAULT

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 15-SEP-98

DATE APPROVED		ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD
980911	1 Au30	Gold		11	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
980911	2 Ag	Silver		11	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	3 Cu	Copper		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	4 CuOL	Copper, semiquant		1	0.1 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	5 Pb	Lead		11	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	6 Zn	Zinc		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	7 Mo	Molybdenum		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	8 Ni	Nickel		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	9 Co	Cobalt		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	10 Cd	Cadmium		11	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	11 Bi	Bismuth		11	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	12 As	Arsenic		11	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	13 Sb	Antimony		11	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	14 Hg	Mercury		11	0.010 PPM	HCL:HNO3 (3:1)	COLD VAPOR AA
980911	15 Fe	Iron		11	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	16 Mn	Manganese		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	17 Te	Tellurium		11	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	18 Ba	Barium		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	19 Cr	Chromium		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	20 V	Vanadium		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	21 Sn	Tin		11	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	22 W	Tungsten		11	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	23 La	Lanthanum		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	24 Al	Aluminum		11	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	25 Mg	Magnesium		11	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	26 Ca	Calcium		11	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	27 Na	Sodium		11	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	28 K	Potassium		11	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	29 Sr	Strontium		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	30 Y	Yttrium		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	31 Ga	Gallium		11	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	32 Li	Lithium		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	33 Nb	Niobium		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	34 Sc	Scandium		11	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	35 Ta	Tantalum		11	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980911	36 Ti	Titanium		11	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA

DATE APPROVED		ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD
980911	37 Zr	Zirconium		11	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLAS
980911	38 SiO2	Silica (SiO2)		7	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	39 TiO2	Titanium (TiO2)		7	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	40 Al2O3	Alumina (Al2O3)		7	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	41 Fe2O3*	Total Iron (Fe2O3)		7	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	42 MnO	Manganese (MnO)		7	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	43 MgO	Magnesium (MgO)		7	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	44 CaO	Calcium (CaO)		7	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	45 Na2O	Sodium (Na2O)		7	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	46 K2O	Potassium (K2O)		7	0.05 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	47 P2O5	Phosphorous (P2O5)		7	0.03 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	48 LOI	Loss on Ignition		7	0.05 PCT	Ignition 1000 Deg.	GRAVIMETRIC
980911	49 Total	Whole Rock Total		11	0.01 PCT		
980911	50 Cr2O3	Chromium Oxide		7	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
980911	51 Ba	Barium		7	10 PPM	Pressed Pellet	XRAY FLUORESCENCE
980911	52 Sr	Strontium		7	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
980911	53 Y	Yttrium		7	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
980911	54 Nb	Niobium		7	2 PPM	Pressed Pellet	XRAY FLUORESCENCE
980911	55 Zr	Zirconium		7	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
980911	56 Rb	Rubidium		7	2 PPM	Pressed Pellet	XRAY FLUORESCENCE
980911	57 Ce	Cerium		6	2 PPM		NEUTRON ACTIVATIC
980911	58 Eu	Europium		6	0.5 PPM		NEUTRON ACTIVATIC
980911	59 La	Lanthanum		6	1 PPM		NEUTRON ACTIVATIC
980911	60 Lu	Lutetium		6	0.2 PPM		NEUTRON ACTIVATIC
980911	61 Nd	Neodymium		6	10 PPM		NEUTRON ACTIVATIC
980911	62 Sc	Scandium		6	0.1 PPM		NEUTRON ACTIVATIC
980911	63 Sm	Samarium		6	0.1 PPM		NEUTRON ACTIVATIC
980911	64 Tb	Terbium		6	1 PPM		NEUTRON ACTIVATIC
980911	65 Th	Thorium		6	0.5 PPM		NEUTRON ACTIVATIC
980911	66 U	Uranium		6	1 PPM		NEUTRON ACTIVATIC
980911	67 Yb	Ytterbium		6	1 PPM		NEUTRON ACTIVATIC

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

REPORT: V98-01535.0 (COMPLETE)

REFERENCE:

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

SUBMITTED BY: S. TRAYNOR

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 15-SEP-98

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK	11	2 -150	11	CRUSH ONLY	4
				CRUSH, SPLIT	10
				PULVERIZATION	14

REMARKS: In the whole rock analysis, samples R2 98R366 and R2 98R368 were found with unusually low total values of major oxides and LOI. The results were checked with a retest. RRD 9/8/98.

REPORT COPIES TO: BOX 4375

INVOICE TO: BOX 4375

Intertek Testing Services
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PROJECT: ARSENAULT

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DATE RECEIVED: 26-AUG-98 DATE PRINTED: 15-SEP-98 PAGE 1A(1/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag PPM	Cu PPM	CuOL PCT	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Hg PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
98R366		17	<.2	1093		10	13	2	9	25	<.2	6	16	<5	0.020	>10.00	1179	<10	19	17	4	<20	<20	2	0.37	0.19	>10.00	0.01	0.04	172	4	<2	<1	5	<5	<10	0.02	<1
98R367		26	<.2	1026		5	20	3	27	17	<.2	<5	<5	<5	0.013	2.78	251	<10	53	83	57	<20	<20	2	2.00	2.31	0.90	0.08	0.16	12	4	<2	9	4	<5	<10	0.10	<1
98R368		31	<.2	841		20	14	4	13	93	<.2	5	58	<5	0.025	>10.00	757	<10	<1	15	4	<20	<20	6	0.29	0.32	6.59	0.03	0.03	59	5	<2	<1	5	<5	<10	0.02	1
98R369		12	<.2	426		5	20	6	11	15	<.2	<5	<5	<5	0.016	3.41	284	<10	51	39	83	<20	<20	4	2.52	3.07	0.48	0.04	0.23	9	6	5	11	4	11	<10	0.04	<1
98R371		<5	<.2	145		3	53	<1	10	7	<.2	<5	<5	<5	<.010	3.55	524	<10	5	16	13	<20	<20	10	1.14	1.15	6.94	0.19	0.07	134	6	<2	1	4	<5	<10	0.05	5
98R372		12	0.3	1968		8	62	18	5	9	0.6	<5	8	<5	0.022	8.58	2097	<10	8	27	8	<20	<20	7	0.31	0.03	6.06	0.02	0.01	19	9	<2	<1	4	<5	<10	0.03	6
98R373		31	0.2	1576		6	15	2	3	4	<.2	<5	5	<5	0.059	6.15	1077	<10	6	26	5	<20	<20	9	0.30	0.01	4.67	0.02	<.01	2	9	<2	<1	3	<5	<10	0.03	6
98R374		<5	<.2	65		8	55	3	23	14	<.2	<5	8	<5	0.013	3.40	871	<10	82	69	27	<20	<20	14	2.24	1.88	0.39	0.03	0.74	6	7	<2	9	3	<5	<10	0.10	1
98R375		57	2.2	7879		27	43	12	16	13	1.6	<5	7	<5	0.018	2.19	478	<10	121	37	34	<20	<20	13	1.31	2.71	2.78	0.06	0.11	95	12	<2	29	5	<5	<10	0.16	<1
98R376		1479	0.7	>10000	1.3	35	12	<1	7	6	<.2	<5	<5	<5	0.112	1.67	64	<10	8	93	14	<20	<20	1	0.48	0.47	0.13	0.03	0.04	6	2	<2	3	2	<5	<10	0.02	<1
98R377		<5	<.2	108		14	57	8	26	11	<.2	<5	<5	<5	0.010	2.62	351	<10	106	114	186	<20	<20	27	2.85	2.57	1.61	0.02	1.09	40	14	<2	9	5	8	<10	0.17	2

Intertek Testing Services
Bondar Clegg

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SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM	Ce PPM	Eu PPM	La PPM	Lu PPM	Nd PPM	Sc PPM	Sm PPM	Tb PPM	Th PPM	U PPM	Yb PPM
98R366		30.31	0.12	3.97	21.21	0.26	2.06	22.43	0.29	0.06	0.15	<0.05	80.86	<0.01	29	385	7	2	25	4											
98R367																															
98R368		39.55	0.14	2.41	24.51	0.16	2.58	12.95	0.52	<.05	0.12	5.86	88.82	<0.01	<10	89	9	2	41	2	22	<.5	13	<.2	<10	2.6	1.7	<1	2.4	6	<1
98R369																															
98R371		44.02	0.34	9.12	14.22	0.16	6.14	15.97	1.97	0.28	0.26	6.48	98.94	<0.01	<10	276	11	7	79	3	38	1.0	17	<.2	20	10.2	4.1	<1	6.7	7	<1
98R372																															
98R373		49.48	0.08	1.02	25.04	0.48	1.57	18.93	0.82	<.05	0.14	<0.05	97.57	<0.01	<10	10	10	2	37	<2	24	0.6	15	<.2	<10	1.7	1.4	<1	1.6	4	<1
98R374		65.47	0.66	15.06	5.62	0.22	3.31	1.87	0.56	3.53	0.09	3.48	99.91	0.03	502	37	25	11	189	124	85	1.0	45	0.3	35	15.4	5.9	<1	15.0	4	2
98R375																															
98R376		88.73	0.14	4.47	2.49	<.01	0.87	0.85	1.14	0.31	0.04	1.17	100.22	0.03	49	51	5	3	21	7	5	<.5	3	<.2	<10	6.5	0.5	<1	0.8	<1	<1
98R377		67.53	0.55	11.97	3.73	0.05	4.29	3.75	0.03	3.13	0.16	4.29	99.53	0.03	715	189	25	11	150	110	72	1.1	38	0.3	31	13.0	5.5	<1	13.0	11	2

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

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REPORT: V98-01535.0 (COMPLETE) — DATE RECEIVED: 26-AUG-98 — DATE PRINTED: 15-SEP-98 — PAGE 2A(3/ 8)

STANDARD NAME	ELEMENT / UNITS	Au30 PPB	Ag PPM	Cu PPM	CuOL PCT	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Hg PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
ANALYTICAL BLANK		<5	<.2	3	-	<2	<1	<1	<1	<1	<.2	<5	<5	<5	0.013	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1
Number of Analyses		1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	0.1	3	-	1	0.5	0.5	0.5	0.5	0.1	3	3	3	0.013	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	.005	0.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		5	0.2	1	<.01	2	1	1	1	1	0.1	2	5	5	0.005	0.05	1	.01	.01	1	1	.01	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	<.01	.01
Gannet Ref.Material		2554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		2554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		2520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET STD SY-3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	17	-	133	244	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	-	-	-	6.22	1.61	-	-	-	-	-	-	-	-	-	-	-
Loss on Ignition Std		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Loss On Ignition Std		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET STREAM-SED		-	<.2	36	-	29	150	1	18	12	0.5	<5	16	<5	0.105	3.38	3240	<10	238	23	43	<20	<20	20	1.18	0.82	1.63	0.03	0.08	28	22	<2	8	4	<5	<10	0.03	<1
Number of Analyses		-	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	0.1	36	-	29	150	1	18	12	0.5	3	16	3	0.105	3.38	3240	5	238	23	43	10	10	20	1.18	0.82	1.63	0.03	0.08	28	22	1	8	4	3	5	0.03	0.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	0.3	36	-	34	165	2	18	14	0.8	-	17	2	0.110	3.50	3740	-	-	28	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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STANDARD NAME	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM	Ce PPM	Eu PPM	La PPM	Lu PPM	Nd PPM	Sc PPM	Sm PPM	Tb PPM	Th PPM	U PPM	Yb PPM
ANALYTICAL BLANK		<0.01	<.01	<0.01	<0.01	<.01	<.01	<0.01	<.01	<.05	<.03	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	1	1	1	1	1	1	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		0.005	.005	0.005	0.005	.005	.005	0.005	.005	0.03	0.02	-	-	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		<.001	<.01	<.001	<.0001	<.01	<.01	<.001	<.01	<.01	<.01	<.001	<.0001	<.001	.005	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.005	.01	.01	.005	.01	.01
Gannet Ref.Material		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET STD SY-3		60.04	0.15	11.81	6.46	0.33	2.60	8.24	4.10	4.15	0.54	-	98.43	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	1	1	1	1	1	1	1	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		60.04	0.15	11.81	6.46	0.33	2.60	8.24	4.10	4.15	0.54	-	98.43	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		59.68	0.15	11.80	6.42	0.32	2.67	8.26	4.15	4.20	0.54	1.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Loss on Ignition Std		-	-	-	-	-	-	-	-	-	-	3.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	3.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	4.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Loss On Ignition Std		-	-	-	-	-	-	-	-	-	-	40.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	40.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	41.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET STREAM-SED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01535.0 (COMPLETE)

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 15-SEP-98 PAGE 3A(5/ 8)

STANDARD NAME	ELEMENT UNITS	Au30 PPB	Ag PPM	Cu PPM	CuOL PCT	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Hg PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
Granite - Cert.Ref.M		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01535.0 (COMPLETE)

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 15-SEP-98 PAGE 3B(6/ 8)

STANDARD NAME	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM	Ce PPM	Eu PPM	La PPM	Lu PPM	Nd PPM	Sc PPM	Sm PPM	Tb PPM	Th PPM	U PPM	Yb PPM
Granite - Cert.Ref.M		-	-	-	-	-	-	-	-	-	-	-	-	-	1385	570	15	23	243	188	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	1385	570	15	23	243	188	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	1400	570	14	21	235	185	-	-	-	-	-	-	-	-	-	-	-
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	1000	348	41	19	755	73	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	1000	348	41	19	755	73	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		53.46	-	15.24	-	-	-	-	-	-	-	-	-	-	1000	340	40	22	760	78	-	-	-	-	-	-	-	-	-	-	-

Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01535.0 (COMPLETE)

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 15-SEP-98 PAGE 4A(7/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag PPM	Cu PPM	CuOL PCT	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Hg PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
98R366		17	<.2	1093		10	13	2	9	25	<.2	6	16	<5	0.020	>10.00	1179	<10	19	17	4	<20	<20	2	0.37	0.19	>10.00	0.01	0.04	172	4	<2	<1	5	<5	<10	0.02	<1
Duplicate																																						
98R372		12	0.3	1968		8	62	18	5	9	0.6	<5	8	<5	0.022	8.58	2097	<10	8	27	8	<20	<20	7	0.31	0.03	6.06	0.02	0.01	19	9	<2	<1	4	<5	<10	0.03	6
Duplicate		9	0.2	1815		7	63	19	5	9	0.6	<5	7	<5	0.026	7.71	1907	<10	8	26	8	<20	<20	7	0.31	0.03	5.82	0.02	0.01	19	9	<2	<1	4	<5	<10	0.03	6
98R376		1479	0.7	>10000	1.3	35	12	<1	7	6	<.2	<5	<5	<5	0.112	1.67	64	<10	8	93	14	<20	<20	1	0.48	0.47	0.13	0.03	0.04	6	2	<2	3	2	<5	<10	0.02	<1
Duplicate																																						

Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01535.0 (COMPLETE)

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 15-SEP-98 PAGE 4B(8/ 8)

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM	Ce PPM	Eu PPM	La PPM	Lu PPM	Nd PPM	Sc PPM	Sm PPM	Tb PPM	Th PPM	U PPM	Yb PPM
98R366		30.31	0.12	3.97	21.21	0.26	2.06	22.43	0.29	0.06	0.15	<0.05	80.86	<0.01	29	385	7	2	25	4											
Duplicate												<0.05																			
98R372																															
Duplicate																															
98R376		88.73	0.14	4.47	2.49	<.01	0.87	0.85	1.14	0.31	0.04	1.17	100.22	0.03	49	51	5	3	21	7	5	<.5	3	<.2	<10	6.5	0.5	<1	0.8	<1	<1
Duplicate		88.12	0.13	4.40	2.42	<.01	0.85	0.84	1.10	0.29	0.03			0.03	44	50	3	3	22	8											

Intertek Testing Services

Bondar Clegg

Geochemical
Lab
Report

MR. STEVE TRAYNOR
BOX 4375
WHITEHORSE, YUKON
Y1A 3T5

Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

REPORT: V98-01534.0 (COMPLETE) REFERENCE:

CLIENT: MR. STEVE TRAYNOR SUBMITTED BY: S. TRAYNOR

PROJECT: ARSENAULT DATE RECEIVED: 26-AUG-98 DATE PRINTED: 7-SEP-98

DATE APPROVED		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD
980903	1 Au30	Gold	54	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
980903	2 Au Wt1	Test Weight	54	0.01 GM	FIRE ASSAY	FIRE ASSAY-AA
980903	3 Ag	Silver	54	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	4 Cu	Copper	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	5 Pb	Lead	54	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	6 Zn	Zinc	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	7 Mo	Molybdenum	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	8 Ni	Nickel	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	9 Co	Cobalt	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	10 Cd	Cadmium	54	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	11 Bi	Bismuth	54	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	12 As	Arsenic	54	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	13 Sb	Antimony	54	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	14 Fe	Iron	54	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	15 Mn	Manganese	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	16 Te	Tellurium	54	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	17 Ba	Barium	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	18 Cr	Chromium	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	19 V	Vanadium	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	20 Sn	Tin	54	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	21 W	Tungsten	54	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	22 La	Lanthanum	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	23 Al	Aluminum	54	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	24 Mg	Magnesium	54	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	25 Ca	Calcium	54	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	26 Na	Sodium	54	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	27 K	Potassium	54	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	28 Sr	Strontium	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	29 Y	Yttrium	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	30 Ga	Gallium	54	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	31 Li	Lithium	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	32 Nb	Niobium	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	33 Sc	Scandium	54	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	34 Ta	Tantalum	54	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	35 Ti	Titanium	54	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
980903	36 Zr	Zirconium	54	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOIL	54	1 -80	54	DRY, SIEVE -80	54

REPORT COPIES TO: BOX 4375 INVOICE TO: BOX 4375

Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01534.0 (COMPLETE)

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 7-SEP-98 PAGE 1 OF 5

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Au Wt1 GM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
0+00N BL		<5	30.92	<.2	239	7	56	2	28	12	<.2	<5	12	<5	2.89	474	<10	113	33	56	<20	<20	18	1.76	1.19	0.40	0.02	0.09	19	8	3	11	<1	<5	<10	0.13	1
0+00N 025E		<5	30.76	<.2	209	5	51	2	28	14	<.2	<5	11	<5	2.96	472	<10	88	36	72	<20	<20	11	2.25	1.86	0.46	0.02	0.09	17	6	4	13	<1	6	<10	0.14	<1
0+00N 050E		<5	20.09	<.2	164	8	91	3	30	15	<.2	<5	11	<5	3.50	548	<10	96	33	58	<20	<20	11	1.95	1.24	0.54	0.02	0.10	20	5	4	12	<1	<5	<10	0.12	<1
0+00N 075E		6	30.13	<.2	131	30	139	6	35	13	0.8	<5	40	<5	4.33	702	<10	105	33	50	<20	<20	20	2.03	1.21	0.58	0.02	0.17	23	10	4	12	<1	<5	<10	0.14	<1
0+00N 125E		<5	5.34	<.2	300	95	509	2	30	19	1.1	<5	19	<5	4.14	849	<10	97	52	66	<20	<20	18	2.34	1.83	1.16	0.02	0.18	40	19	4	16	1	20	<10	0.14	<1
0+00N 150E		6	15.30	<.2	130	15	88	2	34	15	<.2	<5	31	<5	3.97	738	<10	90	39	58	<20	<20	19	2.11	1.53	0.83	0.02	0.11	30	11	4	12	<1	<5	<10	0.12	<1
0+00N 175E		6	30.11	<.2	83	18	78	2	41	17	<.2	<5	49	<5	4.26	1027	<10	107	33	51	<20	<20	35	2.02	1.48	0.70	0.02	0.15	32	22	4	9	<1	5	<10	0.12	<1
0+00N 200E		<5	30.09	<.2	39	12	56	1	30	13	<.2	<5	25	<5	3.33	589	<10	73	29	45	<20	<20	18	1.62	1.10	0.53	0.02	0.10	21	7	3	9	<1	<5	<10	0.12	<1
0+00N 225E		<5	30.59	<.2	63	10	59	2	39	17	<.2	<5	31	<5	3.84	635	<10	88	45	65	<20	<20	19	2.65	2.21	0.81	0.02	0.15	28	10	6	17	<1	<5	<10	0.18	<1
0+00N 250E		13	30.27	<.2	68	16	74	1	40	15	<.2	<5	42	<5	4.11	1162	<10	81	34	53	<20	<20	26	2.23	1.75	0.59	0.02	0.09	25	14	5	11	<1	<5	<10	0.12	<1
1+00S BL		14	25.15	<.2	99	19	71	2	34	10	<.2	<5	19	<5	3.22	366	<10	103	38	51	<20	<20	19	2.20	1.30	0.52	0.02	0.16	22	8	4	12	<1	<5	<10	0.14	<1
1+00S 025E		<5	20.06	<.2	197	13	72	2	44	14	<.2	<5	25	<5	4.08	807	<10	130	40	55	<20	<20	35	2.11	1.29	0.70	0.03	0.16	40	22	4	11	<1	7	<10	0.13	<1
1+00S 050E		6	30.42	<.2	303	11	69	3	45	16	<.2	<5	14	<5	3.59	592	<10	154	43	57	<20	<20	21	1.80	1.03	0.62	0.03	0.13	37	12	4	12	<1	5	<10	0.13	5
1+00S 100E		<5	30.10	<.2	160	14	61	2	34	13	<.2	<5	24	<5	3.77	414	<10	69	32	44	<20	<20	14	1.95	1.10	0.56	0.02	0.09	28	7	3	10	<1	<5	<10	0.10	<1
1+00S 125E		24	30.04	<.2	116	14	64	1	38	15	<.2	<5	26	<5	3.87	661	<10	86	31	47	<20	<20	18	2.05	1.16	0.57	0.02	0.11	31	9	4	10	<1	<5	<10	0.10	<1
1+00S 175E		<5	10.91	<.2	243	9	66	2	33	24	<.2	<5	21	<5	4.66	767	<10	96	28	58	<20	<20	14	2.09	1.42	0.75	0.01	0.13	33	8	4	18	<1	7	<10	0.07	<1
1+00S 200E		<5	15.14	<.2	181	25	60	2	29	15	0.3	<5	15	<5	3.71	1272	<10	167	22	32	<20	<20	39	1.88	0.85	0.83	0.01	0.13	38	15	3	10	<1	<5	<10	0.02	<1
1+00S 225E		<5	25.36	<.2	63	25	83	2	50	22	<.2	<5	32	<5	4.74	1242	<10	96	37	52	<20	<20	31	2.21	1.25	0.87	0.01	0.12	41	15	4	12	<1	<5	<10	0.11	<1
1+00S 250E		<5	15.15	<.2	87	28	108	3	69	34	<.2	<5	56	<5	7.13	1365	<10	90	34	43	<20	<20	30	2.08	1.45	0.51	0.01	0.13	27	21	3	13	<1	5	<10	0.06	<1
2+00S BL		<5	15.01	<.2	58	14	67	2	37	16	<.2	<5	18	<5	3.82	462	<10	111	41	53	<20	<20	22	2.07	1.20	0.53	0.02	0.13	24	11	4	11	<1	<5	<10	0.14	1
2+00S 075E		16	20.90	<.2	439	12	81	3	32	16	0.2	<5	14	<5	4.08	529	<10	116	34	55	<20	<20	29	2.16	1.35	0.56	0.02	0.17	22	15	4	12	<1	5	<10	0.12	<1
2+00S 100E		21	25.66	<.2	579	11	97	3	40	20	0.3	<5	15	<5	4.31	500	<10	110	34	52	<20	<20	29	2.28	1.55	0.58	0.02	0.18	20	14	4	12	<1	5	<10	0.13	<1
2+00S 150E		<5	20.04	<.2	214	11	78	5	26	15	<.2	<5	20	<5	4.60	546	<10	127	22	38	<20	<20	14	2.03	1.64	0.33	0.01	0.31	13	6	2	9	<1	<5	<10	0.16	<1
2+00S 175E		<5	30.12	<.2	146	12	86	4	46	21	<.2	<5	25	<5	4.61	794	<10	117	38	55	<20	<20	20	2.37	1.38	0.41	0.01	0.20	17	9	5	10	<1	<5	<10	0.13	<1
2+00S 200E		6	15.58	<.2	54	13	70	2	35	15	<.2	<5	27	<5	3.65	608	<10	124	36	49	<20	<20	15	2.03	1.09	0.31	0.01	0.16	15	6	4	10	<1	<5	<10	0.12	<1
2+00S 225E		<5	15.26	<.2	196	19	117	2	37	16	<.2	<5	55	<5	3.85	661	<10	111	37	52	<20	<20	65	2.07	1.14	0.43	0.01	0.13	19	26	5	11	<1	<5	<10	0.10	<1
2+00S 250E		15	5.96	0.3	1122	11	53	13	48	30	0.2	<5	18	<5	7.14	1337	<10	73	9	39	<20	<20	6	1.19	0.82	1.52	<.01	0.10	22	17	<2	4	<1	17	<10	<.01	<1
2+00S 275E		<5	30.57	<.2	82	12	71	2	37	15	<.2	<5	36	<5	4.38	521	<10	102	36	57	<20	<20	20	2.30	1.39	0.44	0.01	0.13	18	8	5	10	<1	<5	<10	0.11	<1
2+00S 300E		<5	30.08	<.2	108	13	106	2	34	15	<.2	<5	18	<5	3.99	618	<10	92	34	53	<20	<20	20	2.09	1.25	0.61	0.01	0.14	25	10	5	11	<1	<5	<10	0.12	<1
2+00S 325E		<5	15.94	<.2	204	9	142	2	40	18	0.5	<5	17	<5	3.95	680	<10	77	37	50	<20	<20	41	2.30	1.61	0.71	0.02	0.13	29	23	5	12	<1	<5	<10	0.13	<1

Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01534.0 (COMPLETE)

DATE RECEIVED: 26-AUG-98 DATE PRINTED: 7-SEP-98 PAGE 2 OF 5

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Au Wt1 GM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
2+00S 350E		<5	15.41	<.2	253	9	67	2	42	17	<.2	<5	30	<5	4.08	750	<10	86	30	45	<20	<20	22	2.08	1.25	0.63	0.02	0.14	26	10	4	10	<1	<5	<10	0.11	<1
2+00S 375E		7	30.00	<.2	292	9	79	3	46	23	<.2	<5	27	<5	4.84	706	<10	90	34	47	<20	<20	26	2.60	2.08	0.61	0.01	0.21	21	14	5	14	<1	<5	<10	0.15	<1
2+00S 400E		8	25.02	<.2	609	14	79	3	41	18	<.2	<5	32	<5	4.41	721	<10	97	39	57	<20	<20	19	2.13	1.34	1.00	0.02	0.12	40	11	5	11	<1	<5	<10	0.13	<1
2+00S 425E		13	30.00	<.2	457	5	55	3	34	14	<.2	<5	22	<5	4.03	552	<10	89	44	61	<20	<20	15	2.82	2.79	0.81	0.01	0.13	35	7	8	17	<1	6	<10	0.15	<1
2+00S 450E		10	30.97	<.2	83	8	63	2	27	11	<.2	<5	22	<5	3.07	459	<10	83	30	49	<20	<20	15	1.69	0.98	0.32	0.01	0.13	15	6	4	9	<1	<5	<10	0.11	<1
3+00S BL		6	20.31	<.2	166	10	100	2	43	18	0.2	<5	26	<5	4.42	718	<10	159	41	57	<20	<20	29	2.17	1.33	0.51	0.02	0.25	23	15	5	11	1	<5	<10	0.14	2
3+00S 025E		<5	30.45	<.2	75	12	98	2	35	16	0.3	<5	21	<5	3.62	772	<10	121	37	51	<20	<20	22	1.85	1.16	0.46	0.02	0.14	18	10	4	10	<1	<5	<10	0.13	<1
3+00S 050E		<5	15.54	<.2	125	14	129	2	43	15	0.4	<5	16	<5	3.52	464	<10	145	41	55	<20	<20	28	1.98	1.11	0.48	0.02	0.16	21	14	4	11	<1	<5	<10	0.14	4
3+00S 075E		6	15.13	<.2	77	11	85	3	32	9	<.2	<5	21	<5	3.26	453	<10	93	39	53	<20	<20	17	1.86	1.15	0.50	0.02	0.11	20	8	4	10	1	<5	<10	0.13	<1
3+00S 100E		6	10.28	<.2	83	12	79	3	30	9	<.2	<5	30	<5	3.14	636	<10	114	38	52	<20	<20	17	1.84	1.06	0.57	0.01	0.12	24	7	4	11	<1	<5	<10	0.10	<1
3+00S 125E		<5	25.56	<.2	135	19	124	4	24	12	0.2	<5	19	<5	3.42	470	<10	71	25	52	<20	<20	14	1.70	1.14	0.59	0.01	0.11	22	7	3	11	<1	<5	<10	0.11	<1
3+00S 150E		9	20.76	<.2	141	78	322	5	27	17	0.6	<5	42	<5	5.15	692	<10	134	24	92	<20	<20	16	2.56	2.04	0.80	0.01	0.36	30	11	4	12	<1	6	<10	0.16	<1
3+00S 175E		14	30.22	<.2	179	11	84	3	33	14	<.2	<5	14	<5	3.23	370	<10	71	30	49	<20	<20	15	1.53	0.98	0.48	0.01	0.08	24	6	3	10	<1	<5	<10	0.11	<1
3+00S 200E		10	5.88	<.2	183	18	133	5	32	12	0.5	<5	31	<5	3.97	571	<10	114	36	53	<20	<20	19	1.88	1.17	0.83	0.01	0.11	32	9	4	11	<1	<5	<10	0.10	<1
3+00S 225E		<5	15.42	<.2	182	21	88	3	34	16	<.2	<5	24	<5	3.73	595	<10	74	43	65	<20	<20	19	1.94	1.42	0.49	0.01	0.10	20	7	5	13	<1	<5	<10	0.13	<1
3+00S 250E		10	5.79	<.2	753	10	96	6	36	18	0.4	<5	21	<5	4.53	623	<10	94	32	57	<20	<20	39	2.49	1.54	0.61	0.01	0.13	24	18	4	19	<1	8	<10	0.03	<1
3+00S 275E		<5	5.85	<.2	183	<2	62	<1	18	22	<.2	<5	<5	<5	5.59	593	<10	82	22	81	<20	<20	8	4.34	2.63	1.44	<.01	0.10	37	10	5	38	<1	17	<10	<.01	<1
3+00S 300E		<5	25.33	<.2	173	10	58	4	23	10	<.2	<5	24	<5	4.07	394	<10	99	35	62	<20	<20	16	1.87	0.94	0.26	0.01	0.13	14	5	5	8	1	<5	<10	0.15	<1
3+00S 325E		<5	25.91	<.2	316	3	29	9	26	12	<.2	<5	42	<5	5.38	213	<10	99	51	61	<20	<20	24	2.36	2.03	0.18	0.01	0.49	5	6	6	15	<1	<5	<10	0.18	<1
3+00S 350E		<5	5.58	<.2	543	10	84	6	35	14	<.2	<5	39	<5	4.22	562	<10	120	42	60	<20	<20	24	2.34	1.39	0.31	0.01	0.15	14	8	5	12	<1	<5	<10	0.10	<1
3+00S 375E		35	20.72	<.2	255	12	72	4	28	14	<.2	<5	33	<5	4.09	473	<10	80	38	64	<20	<20	14	2.12	1.30	0.28	0.01	0.14	13	5	5	11	<1	<5	<10	0.16	<1
3+00S 400E		6	15.08	<.2	399	9	62	4	27	14	<.2	<5	34	<5	3.67	787	<10	84	37	60	<20	<20	15	1.86	1.02	0.25	0.01	0.13	12	5	5	9	<1	<5	<10	0.11	<1
3+00S 425E		<5	5.24	<.2	500	7	55	3	28	12	<.2	<5	19	<5	3.54	458	<10	72	34	49	<20	<20	16	2.18	1.12	0.23	0.01	0.14	10	5	4	9	1	<5	<10	0.10	<1
3+00S 450E		<5	10.46	<.2	1032	6	65	4	32	16	<.2	<5	12	<5	3.99	471	<10	64	33	52	<20	<20	16	2.26	1.30	0.39	0.01	0.11	12	6	5	11	1	<5	<10	0.12	<1

Intertek Testing Services
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STANDARD NAME	ELEMENT UNITS	Au30 PPB	Au Wt1 GM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
ANALYTICAL BLANK		<5	-	<.2	<1	<2	<1	<1	<1	<1	<.2	<5	<5	<5	<.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1
ANALYTICAL BLANK		<5	-	<.2	<1	<2	<1	<1	<1	<1	<.2	<5	<5	<5	<.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		3	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		3	-	0.1	0.5	1	0.5	0.5	0.5	0.5	0.1	3	3	3	.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	.005	0.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.01	.01	.01	<.01	<.01	<.01	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
Gannet Ref.Material		374	31.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		374	31.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STD GEOCHEM STD 6		-	-	0.4	136	16	135	2	121	32	<.2	<5	127	<5	7.17	1352	<10	5	182	46	<20	<20	1	1.84	2.68	3.75	0.01	0.04	77	3	2	20	<1	7	<10	<.01	<1
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.4	136	16	135	2	121	32	0.1	3	127	3	7.17	1352	5	5	182	46	10	10	1	1.84	2.68	3.75	0.01	0.04	77	3	2	20	0.5	7	5	.005	0.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	0.2	148	20	148	4	135	35	0.2	1	145	1	7.20	1450	0.2	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	70	3	-	24	2	6	1	.003	5
Gannet Ref.Material		2507	32.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		2507	32.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		2520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gannet Ref.Material		980	30.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		980	30.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		1070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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STANDARD NAME	ELEMENT UNITS	Au30 PPB	Au Wt1 GM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
CANMET STREAM-SED	-	-	-	<.2	38	35	162	2	20	15	0.7	<5	20	<5	3.81	3612	<10	269	27	47	<20	<20	21	1.26	0.87	1.80	0.03	0.08	30	24	2	9	<1	<5	<10	0.04	<1
Number of Analyses	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	-	-	-	0.1	38	35	162	2	20	15	0.7	3	20	3	3.81	3612	5	269	27	47	10	10	21	1.26	0.87	1.80	0.03	0.08	30	24	2	9	0.5	3	5	0.04	0.5
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	0.3	36	34	165	2	18	14	0.8	-	17	2	3.50	3740	-	-	28	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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0+00N 125E		<5	5.34	<.2	300	95	509	2	30	19	1.1	<5	19	<5	4.14	849	<10	97	52	66	<20	<20	18	2.34	1.83	1.16	0.02	0.18	40	19	4	16	1	20	<10	0.14	<1
Duplicate				<.2	310	99	532	2	31	20	1.1	<5	20	<5	4.32	875	<10	101	56	68	<20	<20	18	2.43	1.92	1.20	0.02	0.18	41	20	4	17	3	21	<10	0.14	<1
2+00S BL		<5	15.01	<.2	58	14	67	2	37	16	<.2	<5	18	<5	3.82	462	<10	111	41	53	<20	<20	22	2.07	1.20	0.53	0.02	0.13	24	11	4	11	<1	<5	<10	0.14	1
Duplicate		11	5.37																																		
2+00S 100E		21	25.66	<.2	579	11	97	3	40	20	0.3	<5	15	<5	4.31	500	<10	110	34	52	<20	<20	29	2.28	1.55	0.58	0.02	0.18	20	14	4	12	<1	5	<10	0.13	<1
Duplicate				<.2	580	12	98	3	40	19	<.2	<5	16	<5	4.32	502	<10	108	35	52	<20	<20	28	2.25	1.55	0.57	0.01	0.18	19	14	4	12	1	5	<10	0.12	<1
2+00S 450E		10	30.97	<.2	83	8	63	2	27	11	<.2	<5	22	<5	3.07	459	<10	83	30	49	<20	<20	15	1.69	0.98	0.32	0.01	0.13	15	6	4	9	<1	<5	<10	0.11	<1
Duplicate		<5	5.44																																		
3+00S 125E		<5	25.56	<.2	135	19	124	4	24	12	0.2	<5	19	<5	3.42	470	<10	71	25	52	<20	<20	14	1.70	1.14	0.59	0.01	0.11	22	7	3	11	<1	<5	<10	0.11	<1
Duplicate				<.2	134	19	125	3	24	12	0.3	<5	19	<5	3.43	481	<10	73	25	53	<20	<20	14	1.71	1.15	0.60	0.01	0.12	22	7	3	11	<1	<5	<10	0.11	<1
3+00S 350E		<5	5.58	<.2	543	10	84	6	35	14	<.2	<5	39	<5	4.22	562	<10	120	42	60	<20	<20	24	2.34	1.39	0.31	0.01	0.15	14	8	5	12	<1	<5	<10	0.10	<1
Duplicate		5	5.55																																		

ITS Intertek Testing Services
Bondar Clegg

Geochemical
Lab
Report

MR. STEVE TRAYNOR
BOX 4375
WHITEHORSE, YUKON
Y1A 3T5

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

REPORT: V98-01746.0 (COMPLETE) REFERENCE:

CLIENT: MR. STEVE TRAYNOR SUBMITTED BY: S. TRAYNOR

PROJECT: ARSENAULT DATE RECEIVED: 24-SEP-98 DATE PRINTED: 6-OCT-98

DATE APPROVED	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD
981005	1 Au30	Gold	12	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
981005	2 Au Wt1	Test Weight	12	0.01 GM	FIRE ASSAY	FIRE ASSAY-AA
981005	3 Ag	Silver	12	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	4 Cu	Copper	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	5 Pb	Lead	12	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	6 Zn	Zinc	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	7 Mo	Molybdenum	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	8 Ni	Nickel	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	9 Co	Cobalt	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	10 Cd	Cadmium	12	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	11 Bi	Bismuth	12	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	12 As	Arsenic	12	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	13 Sb	Antimony	12	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	14 Fe	Iron	12	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	15 Mn	Manganese	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	16 Te	Tellurium	12	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	17 Ba	Barium	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	18 Cr	Chromium	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	19 V	Vanadium	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	20 Sn	Tin	12	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	21 W	Tungsten	12	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	22 La	Lanthanum	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	23 Al	Aluminum	12	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	24 Mg	Magnesium	12	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	25 Ca	Calcium	12	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	26 Na	Sodium	12	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	27 K	Potassium	12	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	28 Sr	Strontium	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	29 Y	Yttrium	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	30 Ga	Gallium	12	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	31 Li	Lithium	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	32 Nb	Niobium	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	33 Sc	Scandium	12	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	34 Ta	Tantalum	12	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	35 Ti	Titanium	12	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
981005	36 Zr	Zirconium	12	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA

DATE APPROVED	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD
981005	37 SiO2	Silica (SiO2)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	38 TiO2	Titanium (TiO2)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	39 Al2O3	Alumina (Al2O3)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	40 Fe2O3*	Total Iron (Fe2O3)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	41 MnO	Manganese (MnO)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	42 MgO	Magnesium (MgO)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	43 CaO	Calcium (CaO)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	44 Na2O	Sodium (Na2O)	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	45 K2O	Potassium (K2O)	5	0.05 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	46 P2O5	Phosphorous (P2O5)	5	0.03 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	47 LOI	Loss on Ignition	5	0.05 PCT	Ignition 1000 Deg.	GRAVIMETRIC
981005	48 Total	Whole Rock Total	5	0.01 PCT		
981005	49 Cr2O3	Chromium Oxide	5	0.01 PCT	BORATE FUSION	INDUC. COUP. PLAS
981005	50 Ba	Barium	5	10 PPM	Pressed Pellet	XRAY FLUORESCENCE
981005	51 Sr	Strontium	5	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
981005	52 Y	Yttrium	5	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
981005	53 Nb	Niobium	5	2 PPM	Pressed Pellet	XRAY FLUORESCENCE
981005	54 Zr	Zirconium	5	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
981005	55 Rb	Rubidium	5	2 PPM	Pressed Pellet	XRAY FLUORESCENCE

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK	12	2 -150	12	CRUSH/SPLIT & PULV.	9
				TOTAL SAMPLE PREP	3

REPORT COPIES TO: BOX 4375 INVOICE TO: BOX 4375

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01746.0 (COMPLETE)

DATE RECEIVED: 24-SEP-98 DATE PRINTED: 6-OCT-98 PAGE 1A(1/ 8)

SAMPLE NUMBER	ELEMENT Au30 UNITS PPB	Au Wt1 GM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	SiO2 PCT	TiO2 PCT
98R398	10	31.31	<.2	43	5	10	18	31	12	<.2	<5	<5	<5	1.70	315	<10	13	153	28	<20	<20	12	0.92	0.33	1.04	0.03	0.16	13	6	<2	3	2	<5	<10	0.08	2	72.23	0.46
98R399	7	32.20	<.2	84	5	18	5	53	24	<.2	<5	38	<5	4.54	185	<10	39	122	37	<20	<20	14	1.38	0.81	0.52	0.04	0.50	16	8	<2	7	2	<5	<10	0.08	5	65.35	0.87
98R400	9	31.46	<.2	518	7	16	4	20	31	<.2	<5	<5	<5	3.12	154	<10	40	107	31	<20	<20	7	1.66	0.57	1.15	0.04	0.30	7	5	<2	3	3	<5	<10	0.11	1		
98R401	25	15.82	2.1	4689	11	32	5	13	13	<.2	<5	7	<5	>10.00	209	<10	9	36	<1	<20	<20	9	0.47	0.24	1.55	0.03	0.05	35	6	<2	<1	2	<5	<10	0.05	1	33.06	0.36
98R402	23	15.39	1.3	1970	12	23	6	15	88	<.2	<5	9	<5	>10.00	185	<10	4	55	<1	<20	<20	18	0.42	0.18	1.12	0.04	0.06	25	5	<2	<1	3	<5	<10	0.05	<1		
98R403	34	15.06	2.4	4325	12	28	5	12	15	<.2	<5	48	<5	>10.00	303	<10	7	35	<1	<20	<20	4	0.61	0.32	5.10	0.02	0.03	84	7	<2	<1	3	<5	<10	0.04	2		
98R407	307	30.86	4.2	9099	13	19	3	2	2	0.4	10	<5	<5	1.59	154	10	<1	13	<1	<20	<20	3	0.05	0.58	0.74	0.02	<.01	3	2	<2	<1	2	<5	<10	0.01	4	52.93	0.08
98R408	7	32.10	<.2	656	4	43	2	7	3	<.2	<5	<5	<5	2.35	1021	<10	4	107	3	<20	<20	3	0.24	0.32	4.05	0.03	0.02	60	3	<2	<1	2	<5	<10	0.01	<1	78.58	0.06
98R147	121	31.05	2.7	9772	14	93	34	11	33	0.6	<5	<5	<5	8.49	609	<10	35	87	4	<20	<20	2	0.25	0.08	2.55	0.01	0.02	14	3	<2	<1	3	<5	<10	0.02	2		
98R404	1729	31.13	1.1	5901	10	14	1	5	3	<.2	<5	<5	<5	1.41	57	<10	39	39	12	<20	<20	<1	0.44	0.44	0.21	0.02	0.04	3	<1	<2	3	2	<5	<10	0.02	<1		
98R405	817	31.90	0.7	4349	8	12	1	5	4	<.2	<5	<5	<5	1.37	59	<10	33	46	12	<20	<20	<1	0.45	0.43	0.10	0.02	0.03	3	1	<2	3	1	<5	<10	0.02	<1		
98R406	1360	32.94	0.9	3577	7	13	<1	5	5	<.2	<5	<5	<5	1.43	92	<10	22	44	18	<20	<20	1	0.68	0.73	0.14	0.01	0.03	5	1	<2	4	2	<5	<10	0.02	<1		

Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01746.0 (COMPLETE)

DATE RECEIVED: 24-SEP-98 DATE PRINTED: 6-OCT-98 PAGE 1B(2/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM
98R398		7.70	4.55	0.28	2.77	6.16	0.58	1.74	0.14	1.50	98.12	0.03	186	122	11	11	93	51
98R399		13.36	7.06	0.04	1.80	2.16	1.12	3.85	0.08	4.44	100.15	0.03	662	194	20	10	237	127
98R400																		
98R401		5.99	29.51	0.16	5.19	11.98	0.95	0.18	0.20	11.12	98.71	<0.01	<10	321	16	4	51	5
98R402																		
98R403																		
98R407		1.08	12.77	0.28	16.89	11.76	0.45	<.05	0.10	1.97	98.31	<0.01	<10	15	4	3	31	2
98R408		1.14	5.82	0.22	2.04	7.41	0.09	<.05	0.06	4.80	100.25	0.02	<10	84	6	2	16	3
98R147																		
98R404																		
98R405																		
98R406																		

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR — PROJECT: ARSENAULT

REPORT: V98-01746.0 (COMPLETE) — DATE RECEIVED: 24-SEP-98 — DATE PRINTED: 6-OCT-98 — PAGE 2A(3/ 8)

STANDARD NAME	ELEMENT UNITS	Au30 PPB	Au Wt1 GM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	SiO2 PCT	TiO2 PCT
ANALYTICAL BLANK		<5	-	<.2	<1	<2	<1	<1	<1	<1	<.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1	<0.01	<.01
Number of Analyses		1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	-	0.1	<1	1	<1	<1	<1	<1	0.1	3	3	3	<0.01	<1	5	<1	<1	<1	10	10	<1	<.01	<.01	<.01	<.01	<.01	<1	<1	1	<1	<1	3	5	<.01	<1	<0.01	<.01
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		5	<0.01	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	<1	<1	1	1	<1	<1	<1	<.01	<.01	<.01	<.01	<.01	<1	<1	<1	<1	<1	<1	<1	<.01	<1	<0.01	<.01
BCC Au Std.8		1018	30.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		1018	30.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		1070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET STD SY-3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60.09	0.15
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60.09	0.15
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	17	133	244	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	6.22	1.61	-	-	-	-	-	-	-	-	-	-	-	59.68	0.15
Loss on Ignition Std		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET STREAM-SED		-	-	0.3	59	15	85	2	22	10	<.2	<5	11	<5	2.76	1108	<10	792	28	43	<20	<20	11	1.12	0.68	1.16	0.04	0.10	48	10	<2	8	4	<5	<10	0.06	1	-	-
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-
Mean Value		-	-	0.3	59	15	85	2	22	10	0.1	3	11	3	2.76	1108	5	792	28	43	10	10	11	1.12	0.68	1.16	0.04	0.10	48	10	1	8	4	3	5	0.06	1	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	0.3	66	13	82	2	23	11	0.6	-	11	4	2.60	1200	-	-	30	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53.46	-	-

Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR — PROJECT: ARSENAULT

REPORT: V98-01746.0 (COMPLETE) — DATE RECEIVED: 24-SEP-98 — DATE PRINTED: 6-OCT-98 — PAGE 2B(4/ 8)

STANDARD NAME	ELEMENT UNITS	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM
ANALYTICAL BLANK		<0.01	<0.01	<.01	<0.01	<0.01	<.01	<.05	<.03	-	-	<0.01	-	-	-	-	-	-
Number of Analyses		1	1	1	1	1	1	1	1	-	-	1	-	-	-	-	-	-
Mean Value		<0.01	<0.01	<.01	<0.01	<0.01	<.01	0.03	0.02	-	-	<0.01	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		<0.01	<0.01	<.01	<0.01	<0.01	<.01	<.01	<.01	<0.01	<0.01	<0.01	<1	<1	<1	<1	<1	<1
BCC Au Std.8		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET STD SY-3		11.95	6.51	0.33	2.69	8.25	4.16	4.27	0.53	-	98.92	<0.01	-	-	-	-	-	-
Number of Analyses		1	1	1	1	1	1	1	1	-	1	1	-	-	-	-	-	-
Mean Value		11.95	6.51	0.33	2.69	8.25	4.16	4.27	0.53	-	98.92	<0.01	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		11.80	6.42	0.32	2.67	8.26	4.15	4.20	0.54	1.20	-	-	-	-	-	-	-	-
Loss on Ignition Std		-	-	-	-	-	-	-	-	4.38	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	4.38	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	4.24	-	-	-	-	-	-	-	-
CANMET STREAM-SED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	1019	346	38	19	761	72
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1
Mean Value		-	-	-	-	-	-	-	-	-	-	-	1019	346	38	19	761	72
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		15.24	-	-	-	-	-	-	-	-	-	-	1000	340	40	22	760	78

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

CLIENT: MR. STEVE TRAYNOR

PROJECT: ARSENAULT

REPORT: V98-01746.0 (COMPLETE)

DATE RECEIVED: 24-SEP-98 DATE PRINTED: 6-OCT-98 PAGE 3A(5/ 8)

STANDARD NAME	ELEMENT UNITS	Au30 PPB	Au Wt1 GM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	SiO2 PCT	TiO2 PCT
Granite - Cert.Ref.M		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intertek Testing Services
Bondar Clegg

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STANDARD NAME	ELEMENT UNITS	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM
Granite - Cert.Ref.M		-	-	-	-	-	-	-	-	-	-	-	1456	577	12	23	232	188
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1
Mean Value		-	-	-	-	-	-	-	-	-	-	-	1456	577	12	23	232	188
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	1400	570	14	21	235	185

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

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PROJECT: ARSENAULT
REPORT: V98-01746.0 (COMPLETE)
DATE RECEIVED: 24-SEP-98 DATE PRINTED: 6-OCT-98 PAGE 4A(7/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Au Wt1 GM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	SiO2 PCT	TiO2 PCT
98R398		10	31.31	<.2	43	5	10	18	31	12	<.2	<5	<5	<5	1.70	315	<10	13	153	28	<20	<20	12	0.92	0.33	1.04	0.03	0.16	13	6	<2	3	2	<5	<10	0.08	2	72.23	0.46
Prep Duplicate		14	30.95	<.2	49	5	9	18	29	11	<.2	<5	<5	<5	1.64	308	<10	12	160	27	<20	<20	12	0.94	0.31	1.05	0.03	0.16	13	6	<2	3	2	<5	<10	0.09	2	75.36	0.45
Duplicate																																						
98R407		307	30.86	4.2	9099	13	19	3	2	2	0.4	10	<5	<5	1.59	154	10	<1	13	<1	<20	<20	3	0.05	0.58	0.74	0.02	<.01	3	2	<2	<1	2	<5	<10	0.01	4	52.93	0.08
Duplicate		305	31.21	4.2	8707	12	19	3	2	2	0.4	9	<5	<5	1.55	153	<10	<1	13	<1	<20	<20	3	0.05	0.58	0.72	0.02	<.01	2	2	<2	<1	2	<5	<10	0.01	3		

ITS Intertek Testing Services
Bondar Clegg

Geochemical Lab Report

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REPORT: V98-01746.0 (COMPLETE)

PROJECT: ARSENAULT
DATE RECEIVED: 24-SEP-98 DATE PRINTED: 6-OCT-98 PAGE 4B(8/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Al2O3 PCT	Fe2O3* PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Ba PPM	Sr PPM	Y PPM	Nb PPM	Zr PPM	Rb PPM
98R398		7.70	4.55	0.28	2.77	6.16	0.58	1.74	0.14	1.50	98.12	0.03	186	122	11	11	93	51
Prep Duplicate		7.69	4.54	0.28	2.76	6.22	0.58	1.79	0.12	1.46		0.03	193	123	12	12	92	51
Duplicate										1.48								
98R407		1.08	12.77	0.28	16.89	11.76	0.45	<.05	0.10	1.97	98.31	<0.01	<10	15	4	3	31	2
Duplicate																		

APPENDIX D

PETROGRAPHIC
(THIN SECTION)
REPORT

24 - 2023 Winfield Drive
Abbotsford, BC V3G 1K5

fax

To:
Steve Traynor
(867) 667-6784

From:
Bruce Northcote
(for Vancouver Petrographics)

Date: Oct 8 1998
Number of Pages: 8
Phone: (604) 859-4618
Fax: (604) 859-4619

Remarks:

Dear Steve,

The following is a fax copy of petrographic descriptions for your samples 98R375, 376, 396, 407.

A hard copy will follow via courier with photomicrographs and your thin sections and offcuts. To quickly respond to some of your questions, 375 and 376 both look like intermediate to mafic metavolcanics, although 376 has abundant quartz, which may have been introduced - textures in the quartz are more consistent with veins than quartzite, chert or purely metamorphic segregations.

The copper mineralization in 396 consists of malachite, which occurs in late veinlets. I could not find primary Cu minerals. ↖ Note - This sample is not from the Arsenault, it is from a diffforent area in the Yukon. Cost statement does not include this sample! SDT

Several of the samples contain late carbonate and chlorite, and in one case K-spar veinlets which cut across the metamorphic fabric, but the chalcopyrite (where present) shows no obvious relationship to these and appears to belong to an earlier phase of mineralization.

All of the samples have been affected to some degree by shearing.

Please feel free to contact me with any questions of concerns.

Sincerely,

Bruce Northcote

Bruce Northcote

for Steve Traynor

Prepared by K.E. Northcote & Associates
for Vancouver Petrographics
October 13, 1998

[1] 98R375
Greenstone (→amphibolite)

Summary description
Metamorphic rock consisting mainly of actinolite and plagioclase with lesser chlorite, quartz, and epidote. At least two generations of carbonate can be identified -- one parallel to fabric, which has undergone some deformation, and late crosscutting microveins. Chlorite is also observed in late crosscutting veins. Plagioclase is overprinted with fine sericite and locally partly replaced by carbonate.

Copper mineralization consists of finely scattered chalcopyrite, some of which is enclosed by plagioclase, quartz, epidote, and amphibole and is not obviously related to the late veining.

Protolith was probably an intermediate volcanic.

Microscopic description

Transmitted light

Plagioclase; 45-50%, anhedral (0.01 to 1.0 mm). Interlocking plagioclase in roughly lensoidal segregations (affected by shearing). Has a strong dusting of sericite alteration. Some local carbonate replacement. Myrmekitic intergrowths of quartz noted locally.

Amphibole (tremolite-actinolite); 25-30%, euhedral to subhedral (0.01 to 1.0 mm). Elongate laths with planar preferred orientation. Thin metamorphic segregations developed, disrupted by shearing. Very pale green pleochroic, maximum extinction angle 17°, biaxial (-) with moderately high 2V. Properties consistent with tremolite-actinolite.

Carbonate; most occurs in irregular veinlets in amphibole segregations, following the overall fabric, but a few carbonate (+quartz) microveins run perpendicular to the fabric and crosscut the previous generation. Most of these microveins have undergone some minor, local deformation. Chlorite is commonly associated [carbonate reacts with cold, dilute HCl -- calcite].

Sericite; <5%, anhedral (microcrystalline). Strong dusting of sericite alteration in plagioclase.

Quartz; 3-5%, anhedral (0.05 to 0.5 mm). A few quartz lensoids parallel to fabric and some quartz is intermixed with the plagioclase. Some elongate "segregations" parallel to fabric may represent deformed veins. Generally the quartz is strongly strained in these, compared to that interlocking with the plagioclase.

Chlorite; 2-3%, anhedral (<0.01 to 0.8 mm). Most is coarse, oriented parallel to foliation, but some is in veins cutting across the metamorphic fabric.

[1] Continued

Epidote; <1%, anhedral (0.01 to 0.1 mm). Sparse epidote, mainly in plagioclase.

Biotite; traces, anhedral (0.05 to 0.1 mm). Pale reddish-brown flakes in plagioclase segregations, oriented parallel to fabric.

Tourmaline; trace, subhedral (0.2 mm). Very sparse. Brownish-green core and pale rims.

Veins:

Carbonate veins as noted above; both parallel to fabric and minor late, crosscutting microveins which cut amphibole, plagioclase crystals and earlier fabric-parallel carbonate. Some chlorite and quartz associated.

K-feldspar; a veinlet containing K-feldspar (<1.0 mm wide) is observed cutting across the fabric in the stained offcut.

Reflected light

Sphene; 1-2%, anhedral to euhedral (<0.01 to 0.1 mm). Scattered throughout. Some encloses rutile.

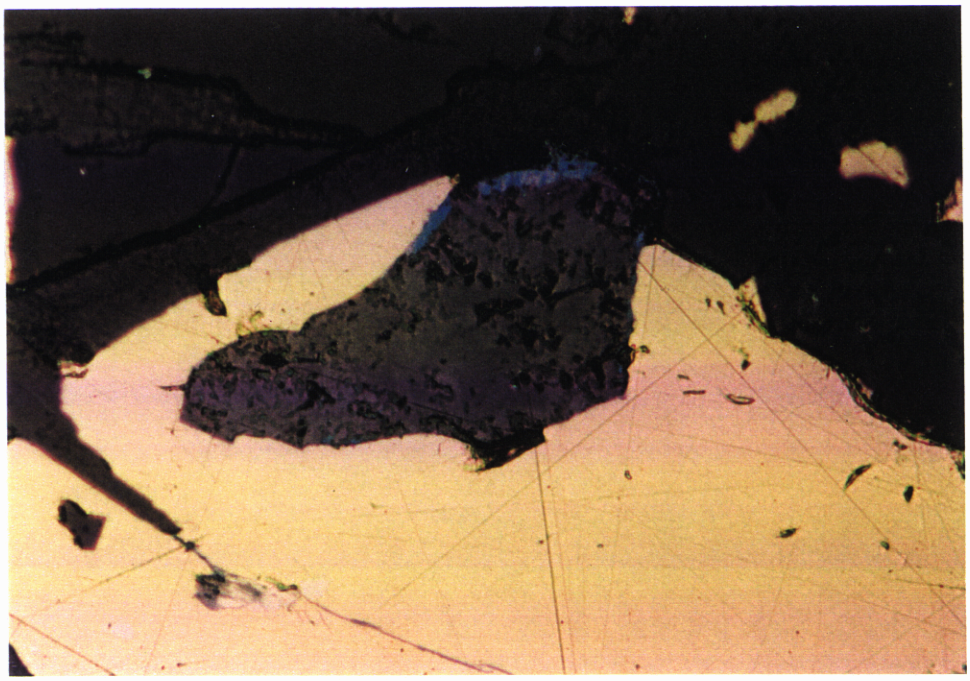
Rutile; ≤1%, anhedral (<0.01 to 0.1 mm). Scattered crystals, commonly enclosed by sphene.

Hematite; traces, anhedral (<0.01 to 0.1 mm). Hematite with chlorite, carbonate, and quartz in a deformed, discontinuous vein (?), parallel to overall fabric.

Chalcopyrite; traces, anhedral (<0.01 to 0.1 mm). Scattered diffuse clusters. Most in plagioclase and quartz but also observed in amphibole. Some is enclosed by euhedral, unaltered grains of amphibole.

Pyrite, euhedral (0.01 mm). Very sparse.

[2] 98R376
Greenschist



Photomicrograph 98R XXII 17 Reflected light
Scale 0.1 mm
Pictured: Malachite occupies cavity in chalcopyrite. Blue mineral is covellite.

Summary description

Slivers of greenschist alternate with bands of quartz. The greenschist portion of the sample consists of plagioclase, epidote, chlorite, calcic clinoamphibole, and remnants of biotite. Chlorite and amphibole produce a weak foliation. Protolith was probably a mafic to intermediate volcanic or intrusive.

Quartz bands consist of interlocking quartz with widely varying grain size. Generally without crystalloblastic texture. Most is strained. Possibly originally veins(?).

Copper mineralization consists of interstitial chalcopyrite in quartz-rich portions, and unevenly disseminated chalcopyrite in greenschist "slivers." Some alteration of chalcopyrite to covellite.

[2] Continued

Microscopic description

Transmitted light

Quartz; 60-65%, anhedral (<0.01 to 2.0 mm). Interlocking quartz in lenses or deformed veins alternating with bands of feldspathic material. Quartz ranges from strongly to weakly strained. Some recrystallization has occurred around grain edges. Lesser quartz is intermixed with plagioclase in the feldspathic / chloritic segregations. Quartz bands probably represent introduced material rather than purely metamorphic segregations, based on texture (generally not crystalloblastic).

Chlorite; 5-7%, anhedral to subhedral (0.01 to 1.0 mm). Ragged bladed chlorite intermixed with plagioclase, epidote, and amphibole. Chlorite has a very rough preferred orientation which contributes to foliation. Observed partially replacing biotite in some cases.

Amphibole; 3-5%, anhedral to subhedral (<0.01 to 2.0 mm). Ragged amphibole laths have very rough preferred orientation in slivers of greenschist. Green to pale brown pleochroic, biaxial (+) interference figures obtained -- probably hornblende.

Epidote; 3-5%, anhedral (<0.01 to 2.0 mm). Irregular grains of epidote with chlorite and amphibole.

Biotite; <0.5%, subhedral (0.01 to 0.5 mm). Partly (largely) replaced by chlorite. No preferred orientation discerned.

Sericite / muscovite; ≤1%, anhedral (microcrystalline to 0.1 mm). Plagioclase is dusted with sericite alteration. Very minor coarser colourless mica occurs with biotite.

Malachite; trace, anhedral (<0.05 mm). Alteration of chalcopyrite.

Reflected light

Chalcopyrite; 1-2%, anhedral (<0.01 to 0.5 mm). Coarse and interstitial in quartz-rich portion of sample and irregularly disseminated in greenschist portion of sample. Some associated with lesser pyrrhotite.

Rutile; traces+, anhedral (<0.01 to 0.2 mm). Scattered grains, mainly in greenschist portions of section.

Pyrite; traces+, anhedral to euhedral (0.01 to 0.5 mm). Sparsely disseminated, mainly in greenschist slivers.

Pyrrhotite; traces, anhedral (0.01 to 0.2 mm). Sparse, associated with chalcopyrite

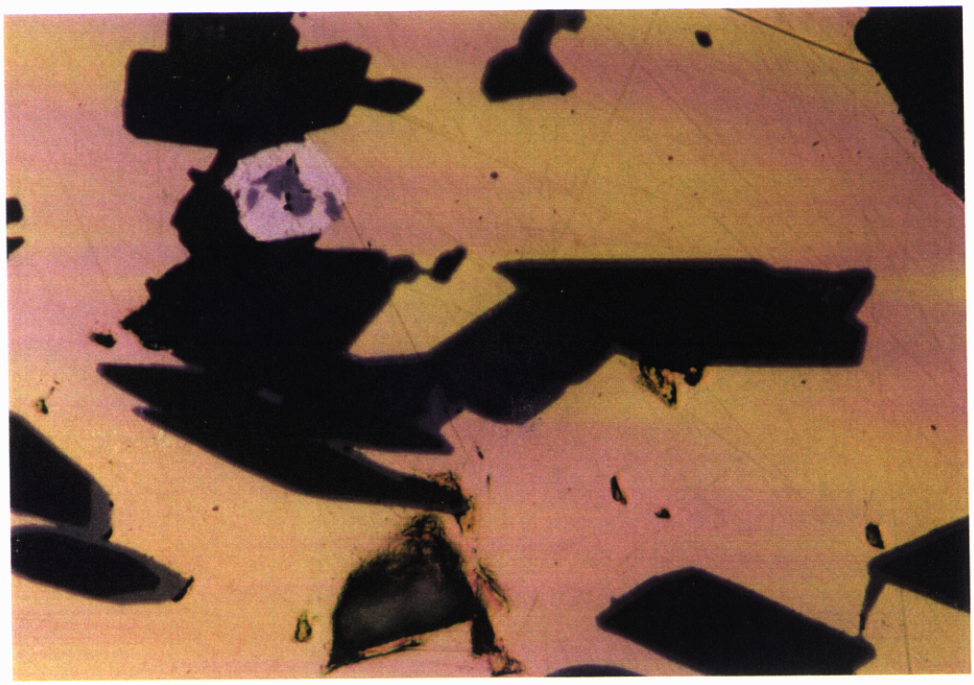
[2] Continued

Covellite; traces, anhedral (<0.01 to 0.1 mm). Alteration of chalcopyrite.

Unknown; traces, anhedral (≤0.01 mm). Alteration product of chalcopyrite, with covellite. Bluish-grey colour. Too fine for reliable identification. Possibly chalcocite.

Hematite; traces+, anhedral (<0.01 to 0.1 mm). Locally forms rims around chalcopyrite and pyrite.

[4] 98R407
Amphibolite



Photomicrograph 98R XXII 19 Reflected light
Scale 0.1 mm
Pictured: Euhedral amphibole enclosed by chalcopyrite; sphalerite rims on chalcopyrite

Summary description
Consists largely of green pleochroic amphibole laths with preferred orientation. Minor, scattered, roughly equant grains of pale green to pinkish-brown pleochroic clinopyroxene is probably diopside. Minor plagioclase and small quartz lensoids are present.

Contains interstitial carbonate (calcite) in diffuse streaks parallel to the dominant fabric. Chalcopyrite is also interstitial with respect to the euhedral-to-subhedral amphibole, and is generally observed with carbonate. Locally, sphalerite forms thin rims on chalcopyrite.

[4] Continued

Microscopic description

Transmitted light

Amphibole; 80-90%, anhedral to euhedral (<0.01 to 1.0 mm). Section consists largely of pale green amphibole laths with preferred orientation. Biaxial (-) with high 2V (~80°). Green to bluish-green pleochroic. Maximum extinction angle approximately 17°. Calcic clinoamphibole -- actinolite or hornblende.

Clinopyroxene (diopside?); <5%, anhedral, subhedral (0.1 to 0.5 mm). Similar in colour to amphibole but with a pinkish tint in one orientation. Occurs as scattered, roughly equant grains. Higher relief than the amphibole. Biaxial (+), 2V 50-60°. Maximum extinction angle approaches 45°. Characteristic pyroxene cleavages at near 90°.

Carbonate; 3-5%, anhedral to euhedral (<0.01 to 1.0 mm). Interstitial to amphibole, in diffuse and discontinuous bands parallel to fabric. Calcite -- reacts with cold, dilute HCl.

Plagioclase / albite; 1-2%, anhedral (0.01 to 1.0 mm). Interstitial to amphibole in small segregations. Most has apparently associated chalcopyrite and carbonate.

Quartz; 1-2%, anhedral (<0.01 to 0.5 mm). Strained quartz in small lensoidal aggregates.

Epidote; ≤1%, anhedral (<0.01 to 0.2 mm). Sparsely scattered irregular grains.

Reflected light

Chalcopyrite; 3-5%, anhedral (<0.01 to 1.0 mm). Interstitial to amphibole. Some is rimmed with sphalerite. Arranged in narrow and diffuse bands, commonly but not exclusively with carbonate.

Sphalerite; traces+, anhedral (<0.01 to 0.05 mm). Sphalerite observed as thin rims on chalcopyrite.

Sphene; <1%, anhedral (<0.01 to 0.1 mm). Disseminated.

UTM 349,000m E

Gossanous Zone

5844

5895

5400

5200

5100

4900

4700

4500

4400

4300

4000

98R365>549/9

98R398>1437/

98R399>847/

98R400>518/9

98R401>1,689/25

98R402>1,970/21

98R403>1,325/24

98R370>5,114/47

98R376>1.3%/1,479

98R404>5,221/1,729

98R406>3,577/1,360

98R405>4,348/817

98R377>108/

98R143>9,754/60

98R147>7,722/121

98R374>652/

98R373>1,879/57

98R407>9,099/30

98R408>656/7

98R371>1,576/31

98R372>1,968/12

98R371>145/

1-1 1-2 1-3 1-4 2-1 2-2 C

UTM 6,532,000m N

UTM 6,532,000m N

UTM 349,000m E

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,882

LEGEND

- 1-3 — Traverse Location (keyed to write-up in Appendix A)
- Outcrop Area
- × 98R143>9,754/60 — Rock sample location, number= Cu in ppm, Au in ppb (unless otherwise indicated)
- Fault
- Claim Post
- © Camp Location
- 4000 — Elevation contour interval, (100 feet)

T.N.

0 100 200 300 400

METRES

ARSENAULT PROPERTY

Prospecting and Sample Location Map showing Cu and Au values obtained

Steve Traynor, Geologist

SCALE: 1 : 5,000	FILE: Figure5	DATE: 99.06.25
NTS: 104 O/13	DRAWN:	FIGURE 5