

# GM 63686

REPORT ON THE DIAMOND DRILLING CAMPAIGN COMPLETED IN 2007 ON THE CHAPAIS SUD PROPERTY

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Québec 

Report on the diamond drilling campaign

Completed in 2007

On the "Chapais Sud" property

LEVY TOWNSHIP, 32G-15

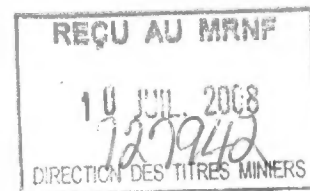
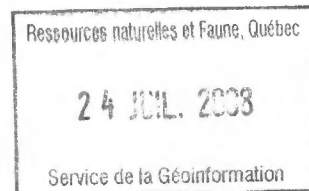
For

2736-1179 Quebec Inc.

GM 63686

Claude P. Larouche, Ing.

(OIQ # 34885)



2007 DIAMOND DRILLING CAMPAIGN

LEVY TOWNSHIP

CHAPAIS AREA, 32-G-15

BY

2736-1179 QUEBEC INC.



Claude Larouche Ing., consultant

(OIQ #34885)

Ressources Naturelles  
Secteur mines

05 FEV. 2008

Bureau Régional Val-d'Or

#.727942

## Introduction

The following report summarizes the results of a limited diamond drilling campaign completed in the second half of the 2007 season in the Chapais area, Chibougamau Mining District, Province of Quebec.

The work was carried out in order to gain a better geological and structural understanding on the formations present south of the town of Chapais. A recent airborne survey by the Ministry confirmed a series of unexplained "input" anomalies. The diamond drilling was also part of the requirements for assessment works.

## Location and access

The area under study is located just south of the town of Chapais along highway 113, some 35 kilometers SW of Chibougamau, a well known mining district.

The mining claims where the work was performed are part of a more important land package controlled by a private company (2736-1179 Quebec Inc), in the Chapais area. The area under study is located just south and east of the old air strip and new bush roads along with the "water pipe" access roadrender the claims easily accessible.

## Claims

The claims covered by the present study are:

96253A, 86254A, 85420A, 85421A, and 86116A.

They are part of a more significant land holding controlled by 2736-1179 Quebec Inc., in the Chapais area

## Previous work

Few companies carried out surface exploration in the area of interest. The most systematic exploration work in the region has been carried out by Inmet, while operating the Chapais Mines.

## Geology

The bedrock is usually covered by a thin veneer of overburden and rock exposure is quite limited. The area is part of the Archaean "Chibougamau-Mattagami" greenstone belt. This volcano-sedimentary belt is divided into two main groups in the Chapais-Chibougamau area. The older group "Groupe Roy" is overlain by the "Groupe Opemisca". The "Groupe Roy" is comprised of the Obatogamau formation

followed by the Waconichi formation, and the Gilman, Blondeau and Bordeleau formations. The volcanic and sedimentary rocks are transected the numerous intrusions: Lac Dore complex, Cummings complex, numerous batholiths (Chibougamau being the most important).

On the property under study, the formation of interest is the "Chrissie member" of the Obatogamau formation. This is a member comprising felsic rocks, close to the top of the Obatogamau mafic volcanic group. Not much is known of this felsic assemblage which could have a significant potential for exploration of "massive sulphide" deposits.

In the northern part of the studied area, limited exposures of felsic volcanic rocks belonging to the Waconichi formation are also present. These volcanic rocks (facing north) are in structural contact (Kapunapotagen fault) with the south facing felsic volcanic of the Blondeau formation.

#### Recent work

During the period of August 2<sup>nd</sup> to October 10<sup>th</sup>, 2007, a limited diamond drilling campaign has been conducted within the southern part of the claim block, south of highway 113. Some casing have been left in place for references and ddh locations have been surveyed with a GPS ( 5 meters precision).

Sixteen drill holes have been completed as follows

DDH #	Easting	Northing	Azimuth	Dip	Length
C-07-01	511588	5513325	315°	-50°	192.0 m
C-07-02	511443	5513408	180°	-50°	276.0 m
C-07-03	511175	5513500	180°	-50°	229.0 m
C-07-04	511170	5513170	270°	-50°	294.0 m
C-07-05	511123	5512240	45°	-50°	246.0 m
C-07-06	511402	5512272	225°	-50°	46.5 m
C-07-07	511513	5512141	225°	-45°	249.0 m
C-07-08	511177	5512007	225°	-50°	338.0 m
C-07-09	511047	5511851	45°	-50°	99.0 m
C-07-10	511150	5511985	45°	-50°	87.0 m
C-07-11	511136	5511959	45°	-50°	165.0 m
C-07-12	511051	5511853	225°	-48°	575.0 m
C-07-13	511099	5512208	45°	-50°	168.0 m
C-07-14	511120	5511788	225°	-54°	450.0 m
C-07-15	511199	5511703	225°	-50°	438.0 m
C-07-16	511127	5513253	220°	-50°	339.0 m

GPS readings are in zone 18, NAD 83, *UTM*

The drill core has been stored in Chibougamau , in a fenced yard. It is available for further study.

## Assaying

The assays have been performed at recognized commercial laboratories. Standards and blanks have been introduced by the commercial labs as part of their "quality assurance" and "quality control" procedures. The company has not introduced any additional blanks and/or standards in the first phase of exploration.

## Conclusions

The diamond drilling was successful at better defining the local geology. The drilling also intersected massive pyrite-pyrrhotite bands within a felsic member of the Obatogamau formation. In the area of the massive sulphide, the "impure limestone" is also converted into "marble" probably due to contact metamorphism. This process has also modified the massive pyrite which has been replaced by pyrrhotite close to the batholith. Massive pyrrhotite is present close to the batholith and moving away from the batholith, we can observe core of pyrite surrounded by pyrrhotite and finally further away the mineralization is mainly pyrite with some fractures filled up with pyrrhotite.

It is recommended to complete few thin sections and some whole rock analyses (major elements, trace elements and rare earths).



Claude Larouche, Ing

Consulting geologist

OIQ # 34885

*ddh\_Mine\_Cooke*

*Drill Hole Log*

*January 22, 2008*

REGU AU MRNF  
10 JUL. 2008  
529942  
DIRECTION DES TIPIES MINIERES

*ddh Mine Cooke*

**Hole:** C-07-01

**Easting:** 511588.0  
**AltNorthing:** 0.00  
**Azimuth:** 315.0  
**AltAzimuth:** 0.00

**Northing:** 5513325.0  
**AltEasting:** 0.00  
**Dip:** -50.0

**Elevation:** 0.00  
**AltElevation:** 0.00  
**Length:** 192.00 m.

**Hole Type:** NQ

**Zone:** 18 NAD 83

**Contractor:** Forages Chibougamau

**Started:** 02/08/2007

**Finished:** 05/08/2007

**Logged By:** C. Larouche ing.

**Claim:** 86254

**Cemented:**

**Surveyed:**

**Casing:**

**Township:** Levy township. Chapais

**Description:**

**Deviations:**

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
138.00	312.00	0.00	-47.50	FlexIT	Active

End of Deviations ; 1 record(s) printed.





# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	7.50	OV - OVERBURDEN, granite, gabbro, mafic volcanics boulders									
0	7.50	17.50	V6 - MAFIC VOLCANICS, intermediate to mafic volcanics, massive, fine grained, grey-green colour, slightly fractured with numerous grey to white quartz veinlets									
0	17.50	23.00	DYKE V1 - RHYOLITE DYKE fine grained to glassy, light green to dark grey colour, contacts at 40° to 50° CA, large rounded quartz eyes, fine pyrite disseminated all through, few qtz veinlets with large patches of po., irregular orientation	98073 98074	18.00 19.50	19.50 21.00	1.50 1.50	64 107	7 6	3 5	4 4	20 27
0	23.00	54.50	V6 - MAFIC VOLCANICS as before massive, fine grained, grey green colour, no pheno of feldspar									
1	23.00	31.50	- locally brecciated with grey to brownish quartz matrix, numerous hematitic quartz at margin of white quartz veinlets locally parallel to CA, no visible sulphide									
1	31.50	33.00	- core partly fractured at low angle to CA									
1	33.00	36.00	- few grey cherty quartz veins with minor py., at margins									
1	36.00	39.00	- slightly brecciated, numerous quartz veinlets of irregular orientation, locally qtz flooding over 30 cm									
1	39.00	42.00	- fractured - brecciated numerous qtz - carb veinlets, rare qtz - sulphide veinlets at low angle to CA, one 15 cm wide									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	42.00	49.50	flesic dyke FD, with small phenos, dyke oriented at 45° CA  - core partly broken, fractures at low angle to CA									
1	49.50	54.50	- fractured and brecciated, minor alteration along fractures filled up by qtz - carb., zone is slightly carbonated, trace of sulphides									
0	54.50	63.30	DYKE V1 - RHYOLITE DYKE massive, cherty grey to black in colour, usually fine disseminated sulphides also present along fractures, few hair-like qtz-carb stringers, upper contact 55°									
0	63.30	65.90	3G - GABBRO fine to medium grained, massive, dark green colour, locally silicified with minor pyrite.									
0	65.90	68.20	SHEAR - CHLORITIC SHEAR, strong schistosity at 80° CA, quartz flooding (35%), large pyrite cubes (3%) + patches close to quartz veining.	98075	66.20	67.90	1.70	7	184	99	2	16
0	68.20	75.00	3G - GABBRO as before, usually fine to medium grained, becomes medium grained within central part, locally 2% dssmt py., core partly broken in places with reddish quartz stringers, usually carb + qtz + py on fractures									
0	75.00	88.50	V6 - MAFIC VOLCANICS as before, massive fine grained, locally fine to medium grained with gradual contacts, coarse flow ?									
1	75.00	78.00	- locally partly broken core, one narrow zone with amygdules or feldspar phenos ?									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	78.00	81.00	- more altered along fractures locally parallel to CA, qtz-chlorite-sericite fractures with qtz-py veinlets, certain zones are also pyritized, 1% to 2% fine disseminated pyrite									
1	81.00	84.00	- coarsely brecciated with grey quartz matrix									
1	84.00	87.00	- locally more diorite looking ( coarse flow ?) still slightly fractured									
1	87.00	88.50	- as above									
0	88.50	90.50	V6, sheared - SHEARED MAFIC VOLCANICS more chloritic than before, pyritized and abundant quartz flooding locally, few grey to dark grey quartz veins 5 cm wide oriented at 80° CA, schistosity varies from 70° to 80° CA									
0	90.50	96.00	V6 - MAFIC VOLCANICS as before, fairly massive, fine grained, grey green colour									
0	96.00	100.00	V6, sheared - SHEARED MAFIC VOLCANICS									
1	96.00	99.00	- more chloritic, sheared at 60° CA to 80° CA, pyritized and silicified locally, numerous quartz veinlets	98165	96.00	97.50	1.50	5	72	46	199	61
1	99.00	100.00	- strongly silicified and pyritized, carbonated, sstly at 60° CA									
0	100.00	101.90	1FP - FELDSPAR PORPHYRY reddish colour, slightly chilled contacts oriented at 60° CA, fine disseminated pyrite allthrough	98156	100.50	102.00	1.50	5	7	1	57	64

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	101.90	105.00	V6, sheared - SHEARED MAFIC VOLCANICS as before, silicified + pyritized, slightly carbonated, abundant quartz veinlets oriented at 60° CA	98157	102.00	103.50	1.50	5	22	29	210	72
				98158	103.50	105.00	1.50	5	37	37	182	55
0	105.00	111.50	V6, altered - ALTERED MAFIC VOLCANICS epidotized, sericitized, carbonated and silicified, hematized (reddish) quartz fragments or patches + veinlets	98159	105.00	106.50	1.50	5	102	44	188	69
				98160	109.50	111.00	1.50	5	65	41	216	71
				98161	111.00	112.50	1.50	5	57	30	162	26
0	111.50	112.70	1FP - FELDSPAR PORPHYRY reddish colour, fine disseminated pyrite	98162	112.50	114.00	1.50	5	69	39	214	64
0	112.70	117.00	V6 - MAFIC VOLCANICS as before, silicified and pyritized	98163	114.00	115.50	1.50	5	64	72	272	40
				98164	115.50	117.00	1.50	7	119	75	253	38
0	117.00	120.00	3G - GABBRO fine to medium grained, carbonated, silicified with zones 30 cm wide of quartz flooding, foliation at 70° CA									
0	120.00	138.00	V6, sheared - SHEARED MAFIC VOLCANICS usually sericite-carbonate-chlorite-quartz schists, ssty at 65° CA, zone injected by quartz veins and stringers									
1	120.00	121.00	- sheared at 70° CA	98151	120.00	121.50	1.50	11	132	52	236	34
1	121.00	126.50	- 30% quartz veins, coarse pyrite along quartz veinlets	98152	121.50	123.00	1.50	8	90	29	162	73
				98154	123.00	124.50	1.50	9	37	53	241	80
				98153	124.50	126.00	1.50	5	56	7	112	80
				98155	126.00	127.50	1.50	5	195	3	121	100
1	126.50	134.00	- many quartz - carbonate veinlets parallel to schistosity at 70° CA									
1	134.00	138.00	- sheared at 60° to 70° CA, volcanics are silicified									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			carbonated with abundant quartz stringers									
0	138.00	192.00	3G - GABBRO variable grain size from fine medium grained to coarse grained locally, usually massive, dark green colour, fractured and brecciated in places									
1	139.00	141.00	- massive, slightly chilled upper contact									
1	141.00	142.50	- core becomes badly broken									
1	142.50	144.00	- lost core									
1	144.00	147.00	- medium to coarse grained, fractured with rusty fractures locally									
1	147.00	153.00	- as above, core locally partly broken, fractures at low angle to CA									
1	153.00	156.00	- fine to medium grained, gradual contacts									
1	156.00	159.00	- few grey quartz veinlets parallel to CA									
1	159.00	174.00	- massive, few chloritic fractures with minor pyrite and carbonates									
1	174.00	192.00	- as above, sections 30 cm wide which are silicified with quartz flooding, only traces of sulphides, core locally fractured with minor carbonate on fractures. END OF HOLE									

End of Lithology and Assays ;

*ddh Mine Cooke*

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*ddh Mine Cooke*

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**Hole:** C-07-02

<b>Easting:</b> 511442.5	<b>Northing:</b> 5513408.0	<b>Elevation:</b> 0.00
<b>AltNorthing:</b> 0.00	<b>AltEasting:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.0	<b>Dip:</b> -50.0	<b>Length:</b> 276.60 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> NQ	<b>Zone:</b> 18 NAD 83	<b>Contractor:</b> Forages Chibougamau
<b>Started:</b> 05/08/2007	<b>Finished:</b> 08/08/2007	<b>Logged By:</b> C. Larouche ing.
<b>Claim:</b> 86254	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b> Levy township, Chapais		
<b>Description:</b>		



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	21.00	OV - OVERBURDEN boulders of granite, sand gravel with minor clay material									
0	21.00	36.80	Shear Zone - SHEAR ZONE highly sheared mafic volcanics , strong silicification, highly carbonated, locally pyritized									
1	21.00	27.10	- strong shearing at 40° CA, 40% quartz - carbonate (rusty) stringers and veinlets oriented at 40° CA, parallel to shearing	512701	27.00	28.50	1.50	26	102	57	323	7
1	27.10	28.50	- as above, disseminated pyrite (2%) pyrite up to 10% locally, recrystallized after quartz - chlorite schists									
1	28.50	30.00	- as above, ssty locally parallel to CA	512702	28.50	30.00	1.50	16	71	69	303	9
1	30.00	31.50	- as above, ssty at 25° CA	512703	30.00	31.50	1.50	30	145	76	347	5
1	31.50	33.00	- as above	512704	31.50	33.00	1.50	32	158	54	284	8
1	33.00	34.50	- ssty locally parallel to CA	512705	33.00	34.50	1.50	13	162	55	305	5
1	34.50	36.00	- abundant quartz - carbonate flooding, 1% to 2% coarse pyrite in places	512706	34.50	36.00	1.50	21	94	61	284	4
1	36.00	36.80	- less shearing, more massive, still abundant quartz + (rusty) carbonate stringers and veinlets parallel to weak shearing oriented at 40° CA									
0	36.80	43.50	V6 - MAFIC VOLCANICS fine grained, green colour, massive, slightly carbonated									
1	36.80	38.50	- shearing at 40° to 45° CA, strongly carbonated. Locally									



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			silicified, trace sulphides associated to qtz-carb veinlets									
1	38.50	41.80	- sheared at 45° CA, carbonated, fractured, irregular lenses of qtz-carb, still chloritic locally, dark green colour									
1	41.80	42.00	- minor diorite dyklet, contacts at 45° CA									
1	42.00	43.50	- less sheared, more massive, much qtz-carb lenses along schistosity planes									
0	43.50	59.70	V6-V4 - MAFIC TO INTERMEDIATE VOLCANICS massive, fine grained to locally fine to medium grained, grey green colour									
1	43.50	45.00	- gradual upper contact, massive, carbonated									
1	45.00	48.00	- rare chloritic fractures, few irregular qtz-carb stringers, trace pyrite									
1	48.00	51.00	- slightly more fractured with qtz-carb + pyrite along fractures, narrow brecciated areas with hair-like quartz stringers									
1	51.00	55.50	- massive, narrow zones 6 cm wide which are sheared and more chloritic, ssty at 40° CA, trace pyrite, fine to medium grained, central portion in coarser grained (coarse flow)									
1	55.50	59.70	- fairly massive, weal schistosity at 40° CA locally, narrow sections highly fractured with abundant qtz-carb stringers and veinlets									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	59.70	67.10	2D - DIORITE massive, fine to medium grained, grey colour, gradual contacts, usually fractured with quartz - carbonate stringers, trace disseminated pyrite, core is slightly carbonated									
0	67.10	75.00	V6 - MAFIC VOLCANICS dark green colour, more chloritic and usually sheared									
1	67.10	68.00	- fractured, abundant qtz - carb lenses and stringers									
1	68.00	68.40	- strong chloritic shear, schistosity oriented at 40° to 45° CA, carbonated with minor quartz flooding									
1	68.40	69.00	- rhyolite dyke (?), beige colour, fine grained, fractured with qtz stringers, trace sulphides									
1	69.00	70.00	- as above, but mostly pinkish quartz vein looking with large blebs or pyrite	512709	69.00	70.50	1.50	21	155	102	215	12
1	70.00	71.50	- mafic volcanics chloritic, highly pyritized (3% to 4%), pyrite also along fractures									
1	71.50	73.00	- more massive, slightly sheared, carbonated, abundant quartz - carbonate stringers									
1	73.00	75.00	- coarser grained (?), but highly fractured, abundant qtz-carb stringers and hair-like fractures									
0	75.00	78.60	V1 - RHYOLITE section of yellowish rhyolite, minor crystal tufts and possibly chert (?) toward 84.6m									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	75.00	76.30	- massive rhyolite injected by grey quartz veins, blebs of massive pyrrhotite locally									
1	76.30	77.00	- more like crystal tuffs, weak foliation at 45° CA									
1	77.00	78.60	- massive rhyolite, grey colour, last 10 cm looks like thinly bedded chert grey to black colour, bedding at 45° CA									
0	78.60	85.00	2D - DIORITE fine to medium grained, grey green colour, massive diorite or coarse flow (?)									
1	78.60	81.00	- upper contact oriented at 45° CA, slightly fractured									
1	81.00	85.00	- massive, fine to medium grained, locally core partly broken, slightly carbonated, also minor carbonate on fractures									
0	85.00	90.70	V6 - MAFIC VOLCANICS fine grained, fairly massive, grey green colour, carbonated									
1	85.00	87.00	- fractured, locally highly sheared over 30 cm sections, ssty at 45° CA, brecciated with hair-like quartz stringers in places									
1	87.00	90.00	- carbonated, still fractured, irregular qtz-carb stringers and veinlets									
1	90.00	90.70	- as above									
0	90.70	114.40	2D - DIORITE massive, grey green colour, fine to medium grained, gradual contacts,									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			intrusive or coarse part of flow (?), slightly carbonated									
1	90.70	93.00	- slightly fractured with few qtz - carb stringers									
1	93.00	97.00	- narrow section coarse grained, still fractured with few qtz-carb strngs, only traces of sulphides									
1	97.00	99.00	- core locally badly broken									
1	99.00	102.40	- narrow silicified section 30 cm wide with abundant irregular quartz veinlets, locally weak schistosity at 45° CA									
1	102.40	105.00	- massive, fine to medium grained, rare quartz - carbonate stringers									
1	105.00	108.00	- rare fractures at low angle to CA varying from 10° to 25° CA									
1	108.00	111.00	- few irregular quartz - carbonate (brown colour) veinlets, diorite slightly carbonated, rare small masses of sulphides locally									
1	111.00	114.40	- as above, narrow silicified sections, locally diorite appears slightly porphyritic									
0	114.40	124.60	V6 - MAFIC VOLCANICS grey green colour, massive, fine grained, locally highly brecciated and injected by massive pyrrhotite stringers + trace of chalcopyrite									
1	114.40	115.50	- gradual upper contact									
1	115.50	117.00	- more fractured with abundant quartz - carbonate + minor sulphides stringers									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	117.00	118.50	- as above									
1	118.50	119.50	- highly sheared, more chloritic, ssty at 40° CA, irregular quartz flooding									
1	119.50	124.60	- fairly massive, fine to medium grained, irregular grey quartz stringers, quartz is not vitrious but granular									
0	124.60	166.70	V6, por - PORPHYRITIC MAFIC VOLCANICS fine grained, massive, grey green colour andesite, large phenos of feldspars (Obatogamau formation)									
1	124.60	126.00	- gradual upper contact, brecciated with quartz - carbonate + minor pyrrhotite stringers filling up fractures									
1	126.00	130.50	- as above, fracturing increasing, also the amount of po stringers									
1	130.50	132.00	- highly fractured, locally 15% pyrrhotite with minor disseminated chalcopyrite, zone is more chloritic and schistosity varies from 30° CA to 45° CA.	512707	130.50	132.00	1.50	16	200	444	479	24
1	132.00	133.50	- less fractured, still numerous quartz - pyrrhotite stringers	512708	132.00	133.50	1.50	24	155	122	359	18
1	133.50	135.00	- as above									
1	135.00	136.70	- numerous phenos (glomeroporphyritic texture), phenos represent about 1% of section, core more massive, less fractured, fine to medium grained									
1	136.70	150.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	136.70	150.00	- about 1% to 3% phenos of feldspars within a fine grained grey green matrix usually brecciated with qtz-carb-po irregular stringers									
1	150.00	151.50	- qtz - po as matrix to brecciated section (flow breccia ?)	512710	150.00	151.50	1.50	47	119	54	170	5
1	151.50	158.50	- massive section with 1% to 3% large phenos of feldspars usually rounded, rare quartz stringers	512711	158.30	159.80	1.50	18	112	70	326	11
1	158.50	160.00	- few phenos, locally brecciated with semi-massive stringers of po + qtz, schistosity at 45° to 55° CA, numerous grey quartz stringers of irregular orientation									
1	160.00	162.00	- 1% to 2% large phenos, usually rounded, section slightly brecciated with hair-like quartz - carbonate stringers defining a "mesh-type" texture in place, trace of sulphides									
1	162.00	162.50	- as above									
1	162.50	164.00	- more fractured, section 50 cm with 5% stringers of massive pyrrhotite + trace chalcopyrite, also quartz flooding with chloritic fractures	512713	162.60	164.00	1.40	19	181	46	357	6
1	164.00	165.00	- as above, 6% po in stringers with trace cpy	512714	164.00	165.00	1.00	14	193	26	363	8
1	165.00	166.70	- massive, 1-3% phenos, fine to medium grained	512715	166.50	168.00	1.50	41	75	75	117	5
0	166.70	167.90	1FP - FELDSPAR PORPHYRY reddish colour, contacts at 60° CA									
0	167.90	169.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	167.90	169.00	V6, por - PORPHYRITIC MAFIC VOLCANICS as before									
0	169.00	169.50	1FP - FELDSPAR PORPHYRY as before									
0	169.50	187.90	V6, por - PORPHYRITIC MAFIC VOLCANICS (Obatogamau) as before									
1	169.50	171.00	- brecciated, fine disseminated pyrite, 3% stringers of massive pyrrhotite	512716	169.50	171.00	1.50	16	112	51	465	8
1	171.00	172.50	- brecciated, numerous quartz - carbonate stringers									
1	172.50	174.00	- 5% locally of stringers of massive po with trace cpy	512717	172.50	174.00	1.50	16	126	73	505	7
1	174.00	175.50	- section with rare phenos, slightly brecciated porphyritic andesite with irregular qtz - carb stringers, section carbonated, rare chloritic fractures									
1	175.50	177.00	- mafic volcanics "Obatogamau", large (up to 2.5 cm) phenos of feldspars locally showing glomeroporphyritic texture									
1	177.00	180.00	- about 5% large phenos, narrow sections 20 cm wide highly sheared at 50° CA with 50% to 60% grey quartz flooding containing minor blebs of po - py, also few stringers of massive po									
1	180.00	181.50	- phenos decreases rapidly in number, only narrow sections 40 cm wide have few phenos									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	181.50	183.00	- rare phenos, sheared 30 cm sections of grey quartz veinlets, pyrite on fractures, massive po + minor cpy stringers in quartz veinlets, sheared zones oriented at about 60° CA	512719	181.50	183.00	1.50	18	161	153	292	8
1	183.00	186.00	- fine grained, massive, no phenos, few irregular qtz-carb-fine sulphides stringers									
1	186.00	187.90	- becomes highly altered sheared and fractured, abundant quartz flooding, fine disseminated sulphides									
0	187.90	259.50	3G - GABBRO fine to medium grained, salt and pepper texture, carbonated with beige carbonate crystals, mafic crystals within a more lighter coloured altered matrix									
1	187.90	193.00	- fine grained, chilled margin ?, gradual contact, looks like it may be a coarser phase of the porphyritic andesite but no phenos ?									
1	193.00	194.50	- still chilled margin, fine to medium grained, locally silicified and pyritized over 30 cm sections									
1	194.50	198.00	- massive, medium grained to fine-medium grained, few chloritic fractures where core is slightly brecciated									
1	198.00	201.00	- becomes more carbonated									
1	201.00	201.80	- locally altered, chloritic fractures									
1	201.80	204.40	- large inclusion of altered yellowish coloured rhyolite or a	512721	202.50	204.00	1.50	53	59	11	97	15



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			rhyolite dyke, rhyolite is locally heavily fractured with irregular grey to white quartz veinlets, patches; disseminated py-po on fractures and margins of quartz veinlets									
1	204.40	207.00	- becomes gradually coarser grained, rare fractures at low angle to CA, core partly broken where fractured, locally layering (?) finer grained layers in contact with coarse grained sections, layering at 55° to 60° CA									
1	207.00	208.50	- as above									
1	208.50	210.00	- large inclusions of Rhyolite or rhyolite dyke ?, rhyolite is slightly brecciated, numerous hair-like quartz stringers, minor sulphides mainly along fractures									
1	210.00	210.30	- rhyolite, contacts at 45° to 50° CA									
1	210.30	213.00	- medium to coarse grained, altered gabbro, carbonated, narrow sections chloritized and silicified									
1	213.00	216.00	- greenish colour, mafic crystals stand out within altered matrix									
1	216.00	219.00	- rare irregular grey quartz stringers									
1	219.00	222.00	- 40 cm wide section chloritized, silicified with numerous grey quartz veinlets and disseminated coarse "blebs" of pyrite									
1	222.00	225.00	- massive, medium grained, carbonate crystals are more									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			evident than mafic crystals locally									
1	225.00	227.00	- rare sulphide disseminated, fairly massive section, locally weak shearing at 45° CA									
1	227.00	228.50	- fairly massive, carbonated, one inclusion 4 cm long by 2 cm wide of chert or rhyolite (felsic dyke ?)									
1	228.50	230.00	- large inclusion (or dyke) of cherty rhyolite rare quartz eyes, slightly fractured with po-py-trace cpy along fractures, core locally badly broken with fractures at low angle to CA									
1	230.00	231.30	- highly carbonated gabbro, weak foliation at 45° CA parallel to contacts of some cherty inclusions									
1	231.30	235.00	- gabbro becomes coarser grained, mafic crystals stand out within a finer grained carbonated matrix									
1	235.00	235.50	- brecciated section (folded schistosity) white quartz flooding (40% quartz) locally yellow carbonates, trace sulphides									
1	235.50	240.00	- fairly massive, coarse grained, mafic crystals within finer grained altered and carbonated matrix									
1	240.00	243.00	- as above, some sections are slightly sheared at 50° CA and altered									
1	243.00	244.50	- one 20-cm inclusion of rhyolite with quartz "eyes", weak foliation at 55° CA									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	244.50	246.00	- carbonated, fine disseminated py-po blebs									
1	246.00	249.00	- core partly broken, fracture at low angle to CA, rare grey to white quartz veinlets, minor chlorite + carbonate on fractures									
1	249.00	252.00	- as above, locally slightly brecciated, rare quartz irregular veinlets, trace of sulphides									
1	252.00	255.00	- possibly slightly epidotized along certain fractures									
1	255.00	257.80	- weak foliation at 45° CA, still slightly epidotized, lime green tint to core, lower contact oriented at 70° CA									
1	257.80	259.50	- finer grained, chilled margin lower contact of gabbro, few grey to white quartz veinlets with minor epidote locally									
0	259.00	267.00	V6-V4 - MAFIC TO INTERMEDIATE VOLCANICS grey green colour, fine grained usually massive, no phenos									
1	259.50	261.30	- mafic to intermediate volcanics highly brecciated with abundant quartz flooding, trace sulphides									
1	261.30	262.80	- highly sheared, slightly sericitized, minor chlorite, silicified with quartz flooding, carbonated, schistosity at 40° CA, trace sulphides									
1	262.80	264.00	- massive grey green colour, rare rounded phenos of feldspars, brecciated with abundant hair-									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			like quartz stringers, few quartz veinlets of irregular orientation									
1	264.00	267.00	- as above, more grey to black quartz as matrix to brecciated areas, trace sulphides									
0	267.00	273.20	V1 - FELSIC VOLCANICS fine grained, massive, grey colour, rounded quartz "eyes"									
1	267.00	270.00	- core locally partly broken, chloritic fractures with minor carbonate, quartz - po - cpy stringers of irregular orientation									
1	270.00	273.20	- as above, rounded quartz eyes + phenos of feldspars which locally looks like amygdules ?, fine blebs of cpy + po through out and also along fractures									
0	273.20	276.60	V6, por - PORPHYRITIC MAFIC VOLCANICS porphyritic andesite, pillow breccia at upper contact (tops up hole ?), large rounded phenos of feldspars									
1	273.20	276.60	- grey to black quartz veinlets, black quartz fragments surrounded by grey quartz. END OF HOLE									

End of Lithology and Assays ;

*ddh Mine Cooke*

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ddh Mine Cooke

**Hole:** C-07-03

**Easting:** 511175.0      **Northing:** 5513500.0      **Elevation:** 0.00  
**AltNorthing:** 0.00      **AltEasting:** 0.00      **AltElevation:** 0.00  
**Azimuth:** 180.0      **Dip:** -50.0      **Length:** 229.00 m.  
**AltAzimuth:** 0.00  
**Hole Type:** NQ      **Zone:** 18 NAD 83      **Contractor:** Forages Chibougamau  
**Started:** 08/08/2007      **Finished:** 11/08/2007      **Logged By:** C. Larouche Ing.  
**Claim:** 86253      **Cemented:**       **Surveyed:**       **Casing:**   
**Township:** Levy township, Chapais  
**Description:**

**Deviations:**

Depth	Azimuth	AltAzimuth	Dip	Type	State
201.00	202.90	0.00	-48.50	None	Active

End of Deviations ; 1 record(s) printed.



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	40.50	Ov - OVERBURDEN granite boulders along with felsic volcanics and mafic volcanics blocks									
0	40.50	47.50	V6 - MAFIC VOLCANICS basalt fine grained, massive, green colour									
1	40.50	45.00	- usually massive but banding between fine grained and fine to medium grained sections, gradual contacts, trace carbonate on fractures									
1	45.00	47.50	- section more altered, more epidotized, chloritic layers, narrow sections brecciated and epidotized (pillow breccia)									
0	47.50	48.30	1FP - FELDSPAR PORPHYRY brownish colour, inclusions of mafic volcanics, contacts at 45° to 50° CA									
0	48.30	67.50	V6 - MAFIC VOLCANICS as before									
1	48.30	54.00	- core locally partly broken, hematized quartz on fractures and as stringers									
1	54.00	62.00	- variation between fine grained and fine-medium grained sections, certain patches are more epidotized, hematized quartz on fractures and as stringers which are locally parallel to CA									
1	62.00	66.00	- numerous section usually narrow which are slightly silicified and epidotized, minor sulphides where mafic volcanics is more chloritized (pillow rims ?)									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	66.00	67.50	- as above, few quartz + hematized quartz stringers locally at low angle to CA									
0	67.50	78.80	2D - DIORITE grey green colour, fine to medium grained, massive, few quartz - carbonate irregular stringers, contacts are gradual (coarse flow ?) locally grey quartz flooding present over 10 cm sections									
0	78.80	94.00	V6-2D - DIORITE - MAFIC VOLCANICS alternating sections of fine grained and fine to medium grained material									
1	78.80	81.00	- core locally partly broken, fine to medium grained in place									
1	81.00	94.00	- massive, fine grained in places but usually fine to medium grained, gradual contacts, slightly brecciated with quartz-carbonate stringers, trace py., minor epidote alteration associated to fracturing injected by qtz-carb stringers									
0	94.00	96.00	3G, bio - BIOTITE GABBRO, medium grained, biotite present, locally sheared with brecciated black and grey quartz veining, contacts are chilled over 15 cm and oriented at 40° CA									
0	96.00	97.50	2D - DIORITE grey green colour, fine to medium grained large inclusions of mafic volcanics, contacts oriented at 40° to 45° CA									
0	97.50	109.50	V6 - MAFIC VOLCANICS fine grained, green to dark grey colour, locally coarsely	98166	97.50	99.00	1.50	5	72	43	227	37



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			brecciated with minor epidote alteration, narrow brecciated and silicified + chloritic zone in close proximity to amygdules (below pillow rim ?) Tops up hole									
0	108.50	111.00	1FP - FELDSPAR PORPHYRY large subhedral to euhedral phenos of feldspar (1 cm), brownish colour phenos within a dark grey fine grained matrix, contacts oriented at 45° CA									
0	111.00	124.30	V6 - MAFIC VOLCANICS as before									
1	111.00	112.50	- slightly brecciated with numerous hair-like quartz-carbonate stringers, rare grey quartz veinlets at 45° to 50° CA									
1	112.50	114.00	- epidotized patches, silicified with minor pyrite in places									
1	114.00	117.00	- fairly massive locally fine to medium grained, amygdules ? in places that looks like altered feldspar phenos ?									
1	117.00	120.00	- weak schistosity at 45° to 50° CA is present within more chloritic zones, section brecciated locally epidotized, few grey quartz stringers with minor sulphides (po-py)									
1	120.00	123.00	- as above									
1	123.00	124.30	- as above, some epidotized and silicified narrow sections, reddish hematitic quartz on later fractures									
0	124.30	125.50	1FP - FELDSPAR PORPHYRY red brick colour (hematized), slightly brecciated with grey									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			quartz + jasper like quartz veinlets									
0	125.50	128.00	V6, sheared - SHEARED MAFIC VOLCANICS shearing at 30° to 40° CA, elongated pyrite crystals parallel to ssty, irregular qtz-carb stringers and veinlets, locally ssty parallel to core over 30 cm section									
0	128.00	157.00	V6 - MAFIC VOLCANICS as before massive, dark green colour, usually fractured with irregular qtz-carb veinlets and stringers									
1	128.00	129.50	- massive, fine grained, green to dark green colour, rare quartz - carbonate stringers at low angle to CA									
1	129.50	132.00	- narrow black sections at 45° CA, pillow rims?, minor qtz-carb amygdules, narrow brecciated zones									
1	132.00	135.00	- dark green colour, 0.5% fine disseminated pyrite cubes, locally fractured with hair-like qtz - carb stringers									
1	135.00	138.00	- locally coarsely brecciated with epidotized matrix, trace py.									
1	138.00	141.00	- some chloritic zones at 35° CA, pyrite cubes with halos of chlorite, coarsely brecciated with quartz-carbonate cement									
1	141.00	144.00	- core locally badly broken, abundant quartz - carbonate veinlets and veins (comb layering)									
1	144.00	146.50	- as above, some quartz veinlets at low angle to CA									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	146.50	147.00	- locally small mafic crystals or patches, amygdules ?, they are elongated in places, rare narrow zones more chloritic with qtz-carb + minor pyrite									
1	147.00	150.00	- locally slightly altered (silicified) with minor fine disseminated pyrite									
1	150.00	153.00	- strongly altered, more chloritic, 35% quartz-carbonate stringers and veinlets parallel to ssty at 40° CA, pyrite cubes locally 10% "overprinting" quartz and volcanics									
1	153.00	157.00	- rare qtz flooding in certain areas with amphiboles ?, trace pyrite									
0	157.00	164.50	V6 sheared - SHEARED MAFIC VOLCANICS highly silicified and carbonated, strong ssty at 40° to 45° CA									
1	157.00	159.00	- locally core partly broken, carbonated, silicified, in places may be mafic tuffs deformed and altered									
1	159.00	160.50	- as above, locally silicified and pyritized, 10% pyrite over 10 cm with 15% quartz stringers	98170	159.00	160.50	1.50	7	179	50	239	48
1	160.50	163.00	- strongly silicified, carbonated, ssty at 45° CA, more chloritic, 30% quartz-carbonate layers ?									
1	163.00	164.50	- strong shearing at 50° CA, highly carbonated, quartz flooding + irregular stringers parallel to ssty									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	164.50	168.00	V6-V9 - MAFIC VOLCANICS flows maybe tuff locally, fine grained, green colour, coarse layering locally									
1	164.50	165.00	- still locally slightly sheared at 45° to 50° CA, carbonated, rare quartz veinlets									
1	165.00	166.10	- fairly massive, few chloritic and other quartz stringers usually at 45° CA									
1	166.10	166.50	- irregular gabbro dyklet with inclusions of volcanics and also irregular fingers of gabbro into volcanics									
1	166.50	168.00	- coarse layering at 45° CA, minor quartz flooding, slightly carbonated									
0	168.00	175.30	V6 - MAFIC VOLCANICS massive, fine grained, green colour, locally weak ssty at 45° CA, slightly brecciated with irregular qtz-carb stringers and veinlets									
0	175.30	176.80	3G - GABBRO dyke, medium grained, contacts at 45° CA									
0	176.80	183.00	V6 - MAFIC VOLCANICS as before fine grained green colour									
1	176.80	180.00	- fairly massive, few dyklets of gabbro at 45° CA, ssty at 40°CA									
1	180.00	181.50	- section rich in amygdules ( mafic core felsic rims)	98167	180.00	181.50	1.50	6	58	39	135	46
1	181.50	183.00										

# ddh Mine Cooke

**Lithology and Assays:**

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	181.50	183.00	- fine grained, green colour brecciated with qtz stringers, sulphides disseminated close to qtz stringers	98168	181.50	183.00	1.50	6	80	39	190	33
0	183.00	184.50	3G - GABBRO massive, medium grained dark grey green colour									
0	184.50	189.00	V6 - MAFIC VOLCANICS as before, fine grained, green colour, fairly massive, locally possible banding (tuffs), carbonated, locally sheared at 45° CA with chloritic fractures filled up with qtz-carb + trace sulphides									
0	189.00	204.30	V6, por - PORPHYRITIC ANDESITE fine grained variable amount of coarse feldspar phenos (glomeroporphyritic texture)									
1	189.00	195.00	- usually brecciated with qtz-carb + sulphides filling up fractures									
1	195.00	196.50	- locally 5% sulphides mainly along fractures	98169	195.00	196.50	1.50	5	114	57	211	40
1	196.50	196.70	- sheared at 40° CA, more chloritic									
1	196.80	198.00	- weak shearing at 35° to 45° CA									
1	198.00	201.00	- numerous qtz-carb stringers, <1% phenos									
1	201.00	204.30	- becomes more sheared, ssty at 35° CA, abundant qtz-carb stringers parallel to ssty, sulphide stringers also appear toward 204 m									
0	204.30	206.00	Dyke V1 - RHYOLITE DYKE same as hole #2,									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			upper part is thylolite with quartz eyes, sericitized, lower part looks like thinly bedded chert, both fractured with quartz stringers and rare later po stringers									
0	206.00	219.50	V6, por - PORPHYRITIC ANDESITE fine grained, massive, <2% phenos usually rounded, green colour andesite									
1	206.00	207.00	- core partly broken									
1	207.00	210.00	- slightly fractured, rare quartz - carbonate stringers with sulphides often oriented at 40° CA									
1	210.00	213.50	- as above, fairly massive, rare stringers of quartz, small silicified sections at 20° CA									
1	213.50	219.50	- fairly massive, 2% to 3% phenos (locally glomeroporphyritic texture), few quartz - carbonate stringers, rare po stringers with trace cpy, weakly fractured with qtz-carb matrix in places									
0	219.50	223.00	1FP - FELDSPAR PORPHYRY dark grey colour with reddish feldspar phenos, sharp contacts at 40° to 45° CA, quartz + pyrrhotite veinlets at upper contact									
0	223.00	229.00	V6 - MAFIC VOLCANICS fine grained, massive green colour									
1	223.00	225.00	- core locally badly broken									
1	225.00	229.00	- massive, slightly carbonated, weak ssty at 40° to 45° CA, rare quartz - carbonate stringers.									

*ddh Mine Cooke*

*Lithology and Assays:*

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>SampleNum</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>ppb</i>	<i>Cu</i> <i>ppm</i>	<i>Zn</i> <i>ppm</i>	<i>Pb</i> <i>ppm</i>	<i>As</i> <i>ppm</i>
			END of HOLE									

End of Lithology and Assays ;

ddh Mine Cooke

**Hole:** C-07-04

**Easting:** 511170.0      **Northing:** 5513170.0      **Elevation:** 0.00  
**AltNorthing:** 0.00      **AltEasting:** 0.00      **AltElevation:** 0.00  
**Azimuth:** 270.0      **Dip:** -50.0      **Length:** 294.00 m.  
**AltAzimuth:** 0.00  
**Hole Type:** NQ      **Zone:** 18 NAD 83      **Contractor:** Forages Chibougamau  
**Started:** 11/08/2007      **Finished:** 15/08/2007      **Logged By:** C. Larouche ing.  
**Claim:** 86253      **Cemented:**       **Surveyed:**       **Casing:**

**Township:** Levy township, Chapais

**Description:**

**Deviations:**

Depth	Azimuth	AltAzimuth	Dip	Type	State
186.00	276.60	0.00	-44.90	Multi-shot	Active

258.00	277.50	0.00	-45.00	Multi-shot	Active
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End of Deviations ; 2 record(s) printed.





# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	36.00	OV - OVERBURDEN granite and mafic volcanics boulders									
0	36.00	44.30	V6 - MAFIC VOLCANICS fine grained, grey green massive andesite									
1	36.00	39.00	- core badly broken									
1	39.00	44.30	- highly brecciated, white carbonate + yellow carbonate on fractures, abundant hair-like qtz-carb stringers, section fractured with highly brecciated zones									
0	44.30	47.50	2D - DIORITE grey green colour, fine to medium grained, gradual contacts ?									
1	44.30	46.00	- rusty fractures with carbonates and chlorite, fractures at low angle to CA									
1	46.00	47.50	- slightly brecciated, carbonate on fractures, narrow more silicified zones, 30 cm wide, with black and grey quartz + carbonate, local weak schistosity at 40° CA									
0	47.50	63.00	V6 - MAFIC VOLCANICS as before but locally slightly porphyritic, massive, fine grained grey green colour									
1	47.50	49.00	- brecciated with minor quartz flooding									
1	49.00	52.50	- core partly broken, carbonate on fractures + chlorite, fractures locally at low angle to CA									
1	49.20	150.00	- brecciated with black graphitic									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			? fractures which are also chloritic									
1	52.50	54.40	- core locally badly broken, altered, fractured at low angle to CA									
1	54.40	60.00	- brecciated with locally abundant grey quartz + carbonate veinlets, also hematized quartz stringers cut by grey quartz, rare black chloritic material on rare fractures (graphite ?)									
0	60.00	63.00	- more massive, slightly porphyritic									
0	63.00	78.30	2D - DIORITE fine to medium grained, massive grey green colour (coarse flow ?)									
1	63.00	68.80	- gradual upper contact, fine to medium grained, carbonate on fractures which are usually at low angle to CA, minor fine pyrite on fractures, rare black chlorite? on certain fractures (graphite ?), rusty patches in places									
1	68.80	69.00	- fractured slightly carbonated									
1	69.00	72.00	- locally core badly broken with fractures at low angle to CA, rare quartz - carbonate stringers									
1	72.00	78.30	- as above, massive to slightly brecciated, locally numerous irregular stringers of qtz - carb filling up fractures, gradual lower contact									
0	78.30	113.50	V6, por - PORPHYRITIC ANDESITE fine grained									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			grey green colour, massive, 0% to 1% feldspar phenos									
1	78.30	83.30	- rare phenos slight glomeroporphyritic texture, few black graphitic fractures, numerous grey quartz + carb stringers									
1	83.30	97.50	- massive, fine grained, rare phenos (glomeroporphyritic), few fractures and veinlets of black quartz + grey quartz									
1	97.50	100.50	- more brecciated to strongly brecciated, core partly broken, fractures with chlorite and minor graphite at low angle to CA, trace carbonate + pyrite on certain fractures									
1	100.50	102.00	- locally core partly broken, fractures at low angle to CA in places, few graphitic fractures, minor injection of grey quartz									
1	102.00	107.50	- fairly massive, core partly broken, small fractures filled up with graphite ?									
1	107.50	113.50	- fairly massive, rare phenos of feldspars, few quartz stringers of irregular orientation, narrow brecciated sections with abundant hair-like qtz stringers									
0	113.50	117.30	2D - DIORITE fine to medium grained grey green colour									
1	113.50	114.00	- gradual contact									
1	114.00	116.50	- massive, rare quartz - carbonate fractures, trace pyrite									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			+ carbonate on fractures									
1	116.50	117.30	- fine to medium grained, slightly porphyritic, rare quartz veinlets at 90° CA									
0	117.30	155.20	V6 - MAFIC VOLCANICS andesite fractured, locally graphitic, grey green colour, massive, rare phenos of feldspars									
1	117.30	119.00	- more brecciated with black and grey quartz + carbonate veining, minor po + trace cpy	98490	118.50	119.20	0.70	34	110	83	3	2
1	119.00	122.80	- still fractured and altered (silicified). Minor phenos all through									
1	122.80	123.00	- brecciated, black quartz vein with grey quartz, minor py-cpy (gold ?) very rare po									
1	123.00	126.00	- fairly massive	98489	123.00	124.00	1.00	5	256	52	2	3
1	126.00	129.00	- brecciated with black quartz cement, core locally badly broken									
1	129.00	132.50	- fractured and slightly brecciated, black coloured fractures are locally graphitic									
1	132.50	138.00	- massive, fine grained, rare phenos of feldspars, few fractures with black quartz and grey quartz									
1	138.00	139.50	- as above, one black and grey quartz vein 4 cm wide, oriented at 45° CA within more sericitized section									
1	139.50	142.00	- fairly massive, about 1% phenos									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	142.00	143.00	- 7-cm wide graphitic shear oriented at 60° CA, sharp contacts no shearing in wall rock									
1	143.00	147.00	- massive, fine grained, rare phenos									
1	147.00	149.20	- as above, minor alteration along fractures, few hair-like qtz-carb stringers									
1	150.00	153.00	- locally altered (silicified - carbonated - epidotized), minor chlorite, dominant fractures at low angle to CA									
1	153.00	155.20	- becomes highly altered, brecciated, silicified and carbonated, abundant irregular quartz filled fractures parallel to CA and also 90° CA									
0	155.20	166.70	Dyke V1 - RHYOLITE DYKE fine grained grey to light green colour									
1	155.20	156.00	- cherty looking at upper contact with local banding (looks like thinly bedded black chert)									
1	156.00	157.50	- fractured, minor chlorite on fractures, fine disseminated pyrite through out, rare quartz veinlets	98171	156.00	157.50	1.50	12	3	1	26	61
1	157.50	159.00	- minor disseminated sulphide	98172	157.50	159.00	1.50	8	1	1	19	45
1	159.00	160.50	- as above	98173	159.00	160.50	1.50	37	1	35	29	54
1	160.50	162.00	- as above	98174	160.50	162.00	1.50	8	1	7	24	31
1	162.00	163.50	- as above	98175	162.00	163.50	1.50	25	3	13	32	57

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	163.50	165.00	- as above	98176	163.50	165.00	1.50	48	1	1	25	81
1	165.00	166.70	- fractured, lower contact at 35° CA, cherty looking, chlorite rich contact zone, fine disseminated sulphides	98177	165.00	166.50	1.50	24	3	114	24	64
0	166.70	243.00	V6, por - PORPHYRITIC ANDESITE fine grained, massive, grey green colour, about 1% phenos of feldspars (locally glomeroporphyritic texture)									
1	166.70	171.00	- sheared at 35° CA, carbonated, locally kind of small mafic inclusions ?									
1	171.00	174.00	- few phenos with locally amygdules (mafic core with felsic rim), some section are fine to medium grained with gradual contacts									
1	174.00	177.00	- few veinlets at 70° CA with black quartz grey quartz and some carbonates, some phenos up to 1 cm across, rare altered fractures at low angle to CA									
1	177.00	180.00	- fairly massive, rare qtz stringers, some altered fractures, rare phenos									
1	180.00	181.50	- as above, minor carbonate on fractures									
1	181.50	186.00	- fairly massive, slightly porphyritic, fractured with black qtz, grey qtz and also white carbonate stringers, trace sulphides close to black quartz injections									
1	186.00	187.70										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	186.00	187.70	- sheared and quartz flooded areas, shearing at 30° CA, more chloritic, carbonated, brecciated, fractured black quartz with minor py-po-cpy cemented by grey quartz, both injected by carbonates	98483	186.00	187.50	1.50	5	39	64	2	7
1	187.70	192.00	- slightly porphyritic, numerous qtz-carb stringers, rare black quartz + trace sulphides stringers and veinlets of irregular orientation									
1	192.00	195.00	- as above									
1	195.00	198.50	- always micro brecciated with hair-like fractures, one veinlet at 45° CA 5 cm wide of black and grey quartz + carbonate and trace sulphides									
1	198.50	201.00	- fine grained, locally slightly porphyritic andesite, 30 cm section sheared at 35° CA injected with minor black quartz, grey quartz and carbonate, trace of sulphides closely associated to black quartz									
1	201.00	202.50	- as above, some irregular veinlets with stringers 0.3 cm wide of massive sphalerite (brown colour)									
1	202.50	207.00	- slightly porphyritic, few black & grey quartz veinlets of irregular orientation but usually close to 45° CA but 90° to each other									
1	207.00	211.30	- as above, locally lighter coloured sericitized ? Carbonated ?									
1	211.30	212.80	- first half of section sheared at	98488	211.30	212.10	0.80	5	96	81	3	9

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	211.30	212.80										
			40° CA and highly silicified, second half highly brecciated with black quartz + grey quartz stringers as cement									
1	212.80	215.50	- becomes more massive, less fractured, minor stringers of quartz, rare rounded phenos of feldspars									
1	215.50	219.00	- massive, fine grained grey green colour, sometimes looks like mafic to intermediate volcanics, narrow sections of fine to medium grained									
1	219.00	220.50	- slightly fractured with hair-like black quartz stringers with trace cpy-po									
1	220.50	222.50	- highly brecciated, carbonated, micro breccia with carbonate cement									
1	222.50	224.20	- fractured with few zones of brecciated black quartz, cemented by grey quartz and calcite ? Vein, trace cpy-po	98487	222.80	223.20	0.40	5	126	44	2	5
1	224.20	228.00	- usually massive fine grained, rarely brecciated, some sections with black quartz fractures, these zones are slightly sericitized ?									
1	228.00	231.00	- as above, few black quartz - grey quartz + carbonate fractures at low angle to CA									
1	231.00	232.50	- micro breccia locally with abundant hair-like qtz stringers, few black + grey quartz veinlets at 60° CA with trace of sulphides									
1	232.50	237.00	- massive fine grained grey									



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	237.00	243.00	green colour, slightly brecciated with grey to black quartz stringers, rare fractures with minor sulphide									
			- massive, slightly brecciated with fractures filled up with black and grey quartz, trace cpy - po, rare phenos of feldspars									
0	243.00	248.50	2D - DIORITE fine to medium grained locally altered and slightly carbonated + silicified over 30 cm, weak ssty at 40° CA, few fractures usually at low angle to CA filled up with grey + black qtz, trace cpy - py - po	98485	248.40	249.20	0.80	16	193	39	2	2
0	248.50	258.00	V6 - MAFIC VOLCANICS as before massive, fine grained to fine - medium grained locally, gradual contacts									
1	248.50	250.20	- mineralized quartz zone, mafic volcanics fractured with black quartz veinlets at low angle to CA with 1% cpy, minor po vein which is locally fractured and cemented by grey quartz and later injected by carbonate	98484	249.20	249.80	0.60	5	154	40	3	4
1	250.20	258.00	- more massive, rare phenos of feldspar, carbonated, irregular barren looking grey to black quartz veinlets, locally fracturing at low angle to CA									
0	258.00	268.50	2D - DIORITE grey colour, massive, gradual contacts									
1	258.00	261.00	- becomes gradually medium grained, massive, slightly altered locally, more beige colour, core locally badly broken at 258m to 258.3m, minor carbonate on									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			fractures at 15° CA									
1	261.00	263.00	- medium grained, rare mafic inclusions (rounded amphibolite ?)									
1	263.00	264.50	- brecciated with abundant quartz veinlets, usually at low angle to CA									
1	264.50	268.50	- fractured, usually at low angle to CA, slightly porphyritic, rare irregular patches of feldspar phenos									
0	268.50	271.30	V6 - MAFIC VOLCANICS as before grey green colour, slightly porphyritic, gradual upper contact, minor carbonates on fractures									
0	271.30	273.00	2D - DIORITE medium grained, grey to brownish grey colour, inclusions of felsic and mafic volcanics, rare barren quartz veinlets, sharp contacts at 40° CA									
0	273.00	290.20	V6 - MAFIC VOLCANICS fine grained, grey green colour									
1	273.00	278.50	- strongly brecciated with grey quartz flooding (10% to 20% of the rock) usually flooding oriented at low angle to CA, volcanics are still slightly porphyritic, weak ssty at 15° to 20°									
1	278.50	282.00	- massive, fine grained, rarely porphyritic rounded irregular feldspar patches									
1	282.00	284.80	- as above, irregular qtz stringers									

# ddh Mine Cooke

**Lithology and Assays:**

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	284.80	285.50	and veinlets - black quartz + grey quartz flooded area, volcanics are more chloritic and quartz area is oriented at low angle to CA	98486	284.80	285.60	0.80	5	177	58	4	2
1	285.50	290.20	- fine grained, massive, slightly brecciated, rare phenos and locally glomeroporphyritic texture,									
0	290.20	294.00	2D - DIORITE fine to medium grained, massive, grey colour (coarse part of a flow ?) still pseudo feldspar phenos END of HOLE									

End of Lithology and Assays ;

**ddh Mine Cooke**

**Hole:** C-07-05

<b>Easting:</b> 511123.0	<b>Northing:</b> 5512240.0	<b>Elevation:</b> 0.00
<b>AltNorthing:</b> 0.00	<b>AltEasting:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 45.0	<b>Dip:</b> -50.0	<b>Length:</b> 246.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> NQ	<b>Zone:</b> 18 NAD 83	<b>Contractor:</b> Forages Chibougamau
<b>Started:</b> 15/08/2007	<b>Finished:</b> 19/08/2007	<b>Logged By:</b> C. Larouche ing.
<b>Claim:</b> 85420	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>

**Township:** Levy township, Chapais

**Description:** STARTED IN MINERALIZATION (PY,PO,PB, CU,ZN) , INPUT ANOMALY= SEMI-MASSIVE PY-PO DISSEMINATED + Cu locally native copper?

**Deviations:**

Depth	Azimuth	AltAzimuth	Dip	Type	State
75.00	39.90	0.00	-47.30	Multi-shot	Active

189.00	39.80	0.00	-46.90	Multi-shot	Active
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End of Deviations ;    2 record(s) printed.



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	27.00	OV - OVERBURDEN									
0	27.00	39.00	2D - DIORITE fine to medium grained, dark grey colour, fairly massive but usually brecciated									
1	27.00	28.50	- chlorite-quartz stringers along fractures parallel to CA									
1	28.50	30.00	- quartz stringers with minor sulphides, carbonate on fractures	98195	28.50	30.00	1.50	7	116	196	235	44
1	30.00	31.50	- as above, locally pyrite sheets on fractures	98196	30.00	31.50	1.50	5	122	32	147	44
1	31.50	33.00	- fine disseminated sulphide throughout	98178	31.50	33.00	1.50	6	156	59	219	42
1	33.00	34.50	- as above	98179	33.00	34.50	1.50	5	141	40	234	59
1	34.50	36.00	- abundant pyrite sheets on fractures, fine disseminated sulphide throughout	98180	34.50	36.00	1.50	7	251	573	498	52
1	36.00	37.50	- as above	98181	36.00	37.50	1.50	5	224	283	294	55
1	37.50	39.00	- as above	98182	37.50	39.00	1.50	5	160	105	232	71
0	39.00	48.00	V6 - MAFIC VOLCANICS black colour, fine grained mafic volcanics									
1	39.00	42.00	- fractured, altered, possible amygdules, brecciated and altered along fractures (mafic volcanics altered to fine grained amphibolite ?)									
1	42.00	46.50	- fine grained, black colour, massive but brecciated with abundant hair-like quartz									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			stringers, narrow sections brecciated (pillow breccia ?), silicified and altered, locally grey colour (more felsic?)									
1	46.50	48.00	- massive, fine grained, locally amygdules like rounded patches with mafic core and felsic rim up to 1cm in diameter									
0	48.00	50.40	1T - TONALITE DYKE light grey colour, medium grained, massive, (biotite rich tonalite)	98183	48.00	49.50	1.50	5	34	66	49	28
				98184	49.50	51.00	1.50	5	74	33	111	63
0	50.40	55.50	V6 - MAFIC VOLCANICS as before, fine grained, altered along fractures with few dyklets of tonalite, fine sulphides on certain fractures									
0	55.50	57.00	1T - TONALITE DYKE as before									
0	57.00	111.00	V6 - MAFIC VOLCANICS as before, black colour (amphibolite) fine grained usually brecciated with altered fractures									
1	57.00	58.50	- brecciated with silicified fractures at low angle to CA with minor sulphides	98188	57.00	58.50	1.50	5	80	59	164	43
1	58.50	62.50	- highly fractured, black colour, fine grained, locally looks like cherty rhyolite ?, rare amygdules, abundant hair-like qtz - carb stringers									
1	62.50	69.00	- fine grained, black colour, (more felsic looking volcanics ?) highly fractured and brecciated with abundant qtz - carb hair-like stringers, locally epidotized, secitized ? and slightly									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			carbonated									
1	69.00	70.50	- narrow sections more dioritic looking, fine disseminated sulphides po-py within diorite (5% in places) one narrow dyklet of tonalite	98185	69.00	70.50	1.50	6	111	58	190	76
1	70.50	72.00	- black volcanics, fine grained as before, still micro brecciated									
1	72.00	73.50	- fine grained, mineralized diorite. 1% to 3% fine py - po	98186	72.00	73.50	1.50	5	145	189	206	28
1	73.50	75.00	- as above, more barren looking white quartz veinlets, pyrite sheets on fractures along with minor carbonate	98187	73.50	75.00	1.50	5	87	124	219	34
1	75.00	79.50	- altered mafic to intermediate volcanics, rare tonalite dyklets, few grey quartz stringers with chloritic margins									
1	79.50	95.50	- mafic to intermediate volcanics, locally epidotized, slightly carbonated, usually micro brecciated with abundant hair-like qtz-carb stringers, locally silicified, tonalite dyklet injected by pegmatite 4 cm wide									
1	95.50	99.00	- mafic volcanics, locally epidotized, slightly fractured with qtz - carb + trace sulphides veinlets									
1	99.00	102.00	- slightly epidotized and carbonated									
1	102.00	105.00	- few irregular gabbro patches and dyklets									
1	105.00	108.00	- more epidotized and altered									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			along fractures, rare narrow 6 cm zones silicified with qtz veining									
1	108.00	111.00	- more gabbro dyklets which are full of mafic volcanics inclusions, gabbro is slightly porphyritic									
0	111.00	203.00	v6 Brx - BRECCIATED MAFIC VOLCANICS narrow section are brecciated (flow breccia ?) mafic volcanics usually irregularly epidotized fractured and brecciated									
1	111.00	112.50	- epidotized, abundant qtz - carb heir-like stringers. Hematized brownish quartz veinlets usually at 25° CA, some slightly sheared sections more chloritic, carbonate + minor sulphides on fractures 112.5									
1	112.50	121.50	- mafic volcanics (locally pillow breccia ?) epidotized in places, minor gabbro intrusions, locally highly silicified with quartz flooding, these zone are 40 cm wide in places, only trace sulphides									
1	121.50	123.00	- as above, locally stringers of quartz + po + cpy, also green chlorite with quartz on fractures, quartz is locally hematized	98189	121.50	123.00	1.50	5	247	76	223	52
1	123.00	126.00	- fairly massive, mafic to intermediate volcanics, fine grained, slightly fractured with qtz-carb veinlets									
1	126.00	127.50	- as above, numerous po - py rich stringers at low angle to CA	98190	126.00	127.50	1.50	30	190	37	208	38
1	127.50	129.00	- as above, much pyrite associated to certain stringers	98191	127.50	129.00	1.50	5	139	50	185	32



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	129.00	129.30	- slightly porphyritic gabbro dyke									
1	129.30	146.50	- breccia mainly altered and fractured, mafic volcanics locally epidotized with about 10% gabbro as matrix to breccia, 40 cm sections highly silicified, usually abundant hair-like quartz = carbonate stringers within volcanics									
1	146.50	147.00	- breccia, 50% gabbro, numerous hair-like quartz stringers									
1	147.00	148.50	- about 30% gabbro, 70% volcanics, fine disseminated po within gabbro (up to 15% locally) also po + trace cpy associated to stringers	98192	147.00	148.50	1.50	6	287	401	231	40
1	148.50	150.00	- section with > 25% fine disseminated po + trace cpy within more siliceous matrix	98193	148.50	150.00	1.50	13	264	210	290	54
1	150.00	151.50	- numerous fractures and blebs of po + trace cpy, minor carbonate + epidote on certain fractures	98194	150.00	151.50	1.50	9	154	61	221	23
1	151.50	153.00	- as above	98197	151.50	153.00	1.50	7	135	96	225	48
1	153.00	154.50	- as above	98198	153.00	154.50	1.50	14	360	115	316	83
1	154.50	156.00	- as above	98199	154.50	156.00	1.50	12	216	79	275	26
1	156.00	160.50	- about 50 - 50 altered volcanics and gabbro matrix, locally slightly epidotized									
1	160.50	162.00	- mostly gabbro, fine to medium grained, fine disseminated po also in patches	98200	160.50	162.00	1.50	10	128	98	259	46

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	162.00	163.50	- narrow section more siliceous and rich in po + trace cpy, 15% disseminated po locally, numerous hair-like po stringers, pyrite sheets on some fractures along with carbonate									
1	163.50	165.00	- brecciated volcanics, quartz - pyrrhotite flooding into fractures, pyrite on certain fractures	98101	163.50	165.00	1.50	8	173	105	191	9
1	165.00	166.50	- as above, volcanics are epidotized, po-qtz flooding within fractures of breccia, locally section 15 cm wide of semi-massive po + trace cpy	98102	165.00	166.50	1.50	12	289	237	263	6
1	166.50	171.00	- about 90% volcanic blocks with black alteration rims and 10% porphyritic gabbro as matrix	98103	166.50	168.00	1.50	5	144	92	178	3
1	171.00	174.00	- volcanics usually fine grained but locally fine to medium grained (diorite looking locally)									
1	174.00	177.00	- volcanic blocks are more epidotized, about 30% fine to medium grained gabbro matrix, fractures epidotized with qtz-po+trace cpy veinlets, large amphiboles (?) are present into quartz - pyrrhotite veinlets									
1	177.00	180.20	- as above, po + trace cpy on certain fractures	98108	180.00	181.50	1.50	5	326	76	204	5
1	180.20	181.50	- brecciated minor gabbro matrix, quartz + carbonate veinlets, pyrite on fractures, minor pyrrhotite disseminated close to fractures									
1	181.50	183.00	- silicified and slightly pyritized,	98107	181.50	183.00	1.50	9	377	89	204	5

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			quartz stringers at low angle to CA 15° CA, few hematitic rich quartz stringers and veinlets									
1	183.00	187.50	- multi phases gabbro, fine grained and medium grained locally porphyritic, more abundant volcanics rounded blocks with black (chloritic) rims									
1	187.50	189.00	- numerous qtz - amphibole stringers with 10% disseminated sulphides, locally volcanics are highly epidotized	98104	187.50	189.00	1.50	5	126	81	187	4
1	189.00	190.50	- as above, po-py disseminated up to 15%, coarse pyrite on fractures, locally highly epidotized sections	98105	189.00	190.50	1.50	5	239	417	318	6
1	190.50	192.00	- as above	98106	190.50	192.00	1.50	5	202	100	233	3
1	192.00	197.00	- coarse breccia, 80% mafic volcanic blocks within 20% gabbro matrix, mafic volcanics blocks have reaction rims with gabbro									
1	197.00	203.00	- epidotized mafic volcanics, brecciated and cemented by gabbro and locally sulphide quartz rich material. Rare red brick quartz stringers of irregular orientation									
0	203.00	246.00	3G, biotite - BIOTITE GABBRO usually porphyritic, minor biotite, grey green colour, highly variable in composition from porphyritic to coarse grained and massive									
1	203.00	204.00	- large inclusions of volcanics within porphyritic gabbro									
1	204.00	207.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	204.00	207.00	- fairly massive porphyritic gabbro									
1	207.00	210.00	- locally partly broken core, section epidotized, chlorite rich fractures which are locally at low angle to CA									
1	210.00	213.30	- less porphyritic to massive, coarse to medium grained, carbonate + hematized quartz on fractures, trace po									
1	213.30	214.50	- weak layering with sections massive no phenos alternating with sections rich (20%) in phenos.									
1	214.50	216.50	- FAULT ZONE zone 30 cm wide with gouge material, serpentinized stringers and veinlets with minor quartz flooding, fault oriented at 15° CA									
1	216.50	218.00	- still layering with section more biotite rich no feldspar phenos alternating with sections rich in phenos, variations are usually sharp									
1	218.00	219.00	- as above									
1	219.00	222.00	- locally inclusions of fine grained mafic volcanics 7 cm across and rounded									
1	222.00	225.00	- mainly porphyritic									
1	225.00	228.00	- about 20% white quartz veins oriented at 40° CA, minor green amphiboles (?) and trace of pyrite (cubes) along fractures within quartz veins									
1	228.00	230.20	- locally sheared and silicified,									

# ddh Mine Cooke

**Lithology and Assays:**

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			one inclusion of sulphide with rim of epidote, 3 cm long, 1.5 cm wide									
1	230.20	233.00	- porphyritic biotite gabbro, quartz (?) crystals, rounded white to pinkish feldspars phenos within a black to dark green finer grained matrix, minor hematite and epidote on fractures									
1	233.00	237.00	- inclusions of fine grained more mafic material, inclusions up to 15 cm in diameter, one inclusion with blebs 2 cm X 1 cm of semi-massive chalcopyrite									
1	237.00	240.00	- again inclusions of mafic fine grained material rich in biotite (looks like lamprophyres)									
1	240.00	243.00	- locally quartz flooding, quartz vein with black tourmaline (?) and belbs of po + minor cpy									
1	243.00	246.00	- feldspar appear epidotized close to fracture, locally gabbro is less porphyritic and appear richer in biotite. END of HOLE									

End of Lithology and Assays ;

*ddh Mine Cooke*

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*ddh Mine Cooke*

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**Hole:** C-07-06

<b>Eastings:</b> 511402.0	<b>Northing:</b> 5512272.0	<b>Elevation:</b> 0.00
<b>AltNorthing:</b> 0.00	<b>AltEastings:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 225.0	<b>Dip:</b> -50.0	<b>Length:</b> 46.50 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> NQ	<b>Zone:</b> 18 NAD 83	<b>Contractor:</b> Forages Chibougamau
<b>Started:</b> 19/08/2007	<b>Finished:</b> 20/08/2007	<b>Logged By:</b> C. Larouche ing.
<b>Claim:</b> 85420	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>

**Township:** Levy township, Chapais

**Description:** hole 200 meters to the east of hole #5, located north of gravel road



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	19.50	OV - OVERBURDEN, sand clay gravel and boulders									
0	19.50	46.50	1T - TONALITE coarse grained, pinkish colour, few rounded inclusions of mafic volcanics (reaction rims on inclusions) larger amphiboles in places									
1	19.50	21.00	- core partly broken									
1	21.00	25.00	- massive, few fractures at various angles with minor carbonate									
1	25.00	29.00	- numerous small inclusions (mafic volcanics) weak foliation at 45° CA, few rusty fractures but usually chloritic + minor carbonate									
1	29.00	33.00	- massive, rare fractures with carbonates									
1	33.00	36.00	- massive, as above									
1	36.00	37.00	- locally silicified, darker grey colour, trace of pyrite (cubes), finer grained more chloritic									
1	37.00	42.00	- massive, few rusty fractures									
1	42.00	42.50	- silicified zone brecciated with hair-like carbonate stringers with quartz									
1	42.50	46.50	- massive, few mafic inclusions, locally weak foliation at 40° CA (?) END of HOLE									

End of Lithology and Assays ;



*ddh Mine Cooke*

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# ddh Mine Cooke

**Hole:** C-07-07

**Eastng:** 511513.0      **Northng:** 5512141.0      **Elevation:** 0.00  
**AltNorthng:** 0.00      **AltEastng:** 0.00      **AltElevation:** 0.00  
**Azimuth:** 225.0      **Dip:** -45.0      **Length:** 249.00 m.  
**AltAzimuth:** 0.00

**Hole Type:** NQ      **Zone:** 18 NAD 83      **Contractor:** Forages Chibougamau  
**Started:** 20/08/2007      **Finished:** 25/08/2007      **Logged By:** C. Larouche ing.  
**Claim:** 86117 85421      **Cemented:**       **Surveyed:**       **Casing:**

**Township:** Levy township, Chapais

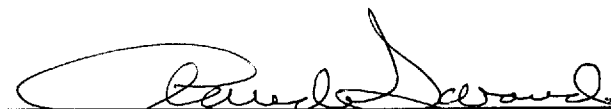
**Description:**

**Deviations:**

Depth	Azimuth	AltAzimuth	Dip	Type	State
0.00	0.00	0.00	-90.00	FlexIT	Active
201.00	232.00	0.00	-43.20	FlexIT	Active

117.00	231.80	0.00	-44.10	FlexIT	Active
242.00	233.10	0.00	-42.50	FlexIT	Active

End of Deviations ; 4 record(s) printed.



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	17.50	OV - OVERBURDEN									
0	17.50	249.00	1T - TONALITE medium to coarse grained locally altered									
1	17.50	22.00	- highly silicified tonalite, grey colour, locally sericitized, also brown carbonate, minor pyrite close to quartz veinlets, pyrite usually disseminated, some chloritic fractures									
1	22.00	27.00	- fairly massive, brownish colour, medium to coarse grained, rare phenos of feldspars, numerous inclusions of mafic volcanics (amphibolite ?)									
1	27.00	32.20	- grey colour, appear finer grained, silicified and locally pyritized, quartz veining over 30 cm in places with minor pyrite, quartz is usually fractured with chloritic fractures	98472	31.50	33.00	1.50	10	8	20	6	2
1	32.20	36.80	- slightly hematized locally									
1	35.00	51.50	- massive, pinkish to brownish colour, medium grained, rare epidotized feldspar phenos in places, rare chloritic + trace carbonate on fractures, numerous rounded mafic inclusions + few chloritic slivers oriented at 40° CA									
1	36.80	38.00	- silicified with rare grey quartz stringers oriented at 65° CA, trace pyrite disseminated usually close to quartz stringers									
1	51.50	62.80	- massive, medium grained, brownish colour, locally more									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			reddish (hematization) rare feldspar phenos, few inclusions of mafic volcanics									
1	62.80	69.00	- 40% grey coloured silicified zones with minor fine disseminated pyrite usually close to grey quartz, white barren looking quartz veinlets 2 cm wide oriented at 45° to 50° CA, chloritic fractures with trace carbonate									
1	69.00	70.50	- silicified and hematized in bands, rare grey quartz veinlets within silicified grey coloured zones, minor associated pyrite									
1	70.50	75.00	- hematized, hematization is usually concentrated along numerous fractures									
1	75.00	77.00	- silicified grey colour, minor sericite alteration, numerous hair-like quartz stringers, rare grey quartz veinlets at 60° CA									
1	77.00	79.50	- slightly hematized along fractures									
1	79.50	83.50	- silicified in section 30 to 45 cm wide, usually grey colour and finer grained									
1	83.50	85.40	- more massive, still fractured, medium grained, brownish colour, minor carbonate on chloritic fractures									
1	85.40	87.00	- locally silicified, narrow shear at 75° CA, section carbonated with chloritic fractures									
1	87.00	90.10	- more massive less fractured									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	90.10	92.20	- more silicified finer grained, carbonate on fractures, trace sulphides									
1	92.20	99.00	- more massive, fresh looking, minor chlorite and carbonate on rare fractures									
1	99.00	102.00	- massive, numerous small rounded mafic inclusions, minor sericite alteration locally (white micas ?), rare hematized fractures									
1	102.00	111.00	- massive, medium to coarse grained, slightly hematized, chlorite + trace carbonate on fractures									
1	111.00	117.00	- massive, narrow grey sections (silicified) core partly broken where rare fractures oriented at low angle to CA									
1	117.00	118.70	- as above, few larger mafic inclusions (amphibolite ?) rare fractures parallel to CA									
1	118.70	121.00	- hematized, reddish colour, few chloritic fractures	98471	120.80	122.30	1.50	44	7	25	4	6
1	121.00	122.50	- highly silicified and pyritized, quartz is locally brecciated with chloritic matrix, fine disseminated pyrite, feldspar are sericitized									
1	122.50	124.00	- narrow section highly silicified and slightly pyritized, altered zone oriented at 45° CA									
1	124.00	129.00	- massive, medium grained, very weak foliation at 45° CA,									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			irregular inclusions of mafic materials (amphibolite)									
1	129.00	132.00	- slightly fractured and hematized, locally numerous hair-like quartz stringers, rare grey quartz veinlets oriented at 65°CA barren looking									
1	132.00	135.50	- as above, narrow sections slightly hematized									
1	135.50	144.00	- locally strongly hematized, reddish colour, sections silicified with irregular quartz veinlets with trace pyrite, chlorite + epidote on fractures									
1	144.00	152.00	- massive, medium to coarse grained, rare phenos of feldspars, numerous small amphibolite inclusions, locally few hematized fractures, always minor chlorite and trace carbonate on fractures									
1	152.00	154.50	- hematized along fractures, rare quartz + reddish quartz stringers									
1	154.50	159.00	- massive, medium to medium-coarse grained, few fractures									
1	159.00	161.00	- locally highly silicified, sections more hematized mainly along fractures within more brecciated areas									
1	161.00	168.00	- fairly massive, rare quartz + chlorite (?) stringers, also chlorite + minor carbonate on fractures									
1	168.00	168.70	- becomes grey colour more silicified, more carbonated									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			beside chloritic fractures									
1	168.70	170.50	- massive, brownish colour, medium grained									
1	170.50	179.00	- altered zone, changes colour to grey where more silicified, 1% to 2% fine disseminated pyrite, rare pinkish quartz veins 3 cm wide oriented at 40° CA, chlorite - minor pyrite - carbonate on fractures									
1	179.00	185.50	- medium grained, massive brownish to pinkish colour, abundant quartz crystals, mafic mineral is hornblende, sericitized (micas), rare phenos of feldspars euhedral and zoned (?), rare rounded mafic inclusions (amphibolite)									
1	185.50	197.50	- massive brownish colour, locally rounded mafic inclusions (3 cm) rare hair-like quartz - carbonate stringers in slightly brecciated areas, numerous hematized fractures									
1	197.50	199.20	- grey colour, altered, silicified, slightly sericitized									
1	199.20	200.00	- one inclusion 3 cm rounded of massive py+cpy+ amphiboles									
1	200.00	202.50	- massive, as before, more medium grained									
1	202.50	207.00	- massive, brownish colour weak foliation at 45° CA									
1	207.00	210.50	- massive, medium to coarse grained, irregular and rounded mafic inclusions									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	210.50	213.00	- locally slightly silicified, more grey colour									
1	213.00	216.00	- as above, locally more silicified									
1	216.00	219.00	- core locally partly broken, trace carbonate on fractures, more fractured locally with some fractures at low angle to CA									
1	219.00	225.00	- massive, brownish colour, narrow silicified sections									
1	225.00	228.00	- locally strongly silicified, carbonated, 2% fine disseminated pyrite, abundant hair-like quartz stringers									
1	228.00	231.00	- as above									
1	231.00	232.50	- more hematized reddish colour									
1	232.50	235.50	- fairly massive, narrow hematized sections, locally numerous rounded mafic inclusions, 15 cm wide reddish quartz vein at 45° CA									
1	235.50	237.00	- massive, locally slightly hematized									
1	237.00	240.00	- massive, few rounded inclusions of mafic volcanics (amphibolite)									
1	240.00	243.00	- grey colour, more altered, silicified, slightly carbonated, trace sulphides									
1	243.00	246.00	- massive, locally abundant small rounded mafic inclusions, rare grey quartz stringers at 60°									



# ddh Mine Cooke

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>SampleNum</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>ppb</i>	<i>Cu</i> <i>ppm</i>	<i>Zn</i> <i>ppm</i>	<i>Pb</i> <i>ppm</i>	<i>As</i> <i>ppm</i>
1	246.00	249.00	CA, some stringers are slightly hematized  - locally altered, silicified, one quartz vein 3 cm wide (comb-layering), trace pyrite END of HOLE									

End of Lithology and Assays ;

# ddh Mine Cooke

**Hole:** C-07-08

<b>Easting:</b> 511177.0	<b>Northing:</b> 5512007.0	<b>Elevation:</b> 0.00
<b>AltNorthing:</b> 0.00	<b>AltEasting:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 225.0	<b>Dip:</b> -50.0	<b>Length:</b> 338.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> NQ	<b>Zone:</b> 18 NAD 83	<b>Contractor:</b> Forages Chibougamau
<b>Started:</b> 25/08/2007	<b>Finished:</b> 28/08/2007	<b>Logged By:</b> C Larouche ing.
<b>Claim:</b> 85420	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b> Levy township, Chapais		
<b>Description:</b>		

**Deviations:**

Depth	Azimuth	AltAzimuth	Dip	Type	State
102.00	225.00	0.00	-44.30	Multi-shot	Active
300.00	228.20	0.00	-43.70	Multi-shot	Active

201.00	227.00	0.00	-44.90	Multi-shot	Active
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End of Deviations ;    3 record(s) printed.



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	22.50	OV - OVERBURDEN									
0	22.50	29.70	V6 - MAFIC VOLCANICS fine to locally fine to medium grained, altered along fractures, grey green colour									
1	22.50	27.00	- strong alteration mainly along fractures									
1	27.00	28.50	- altered, silicified, minor sulphides	98117	27.00	28.50	1.50	5	146	73	175	4
1	28.50	29.70	- as above	98118	28.50	30.00	1.50	5	143	76	162	2
0	29.70	38.00	1T - TONALITE medium to coarse grained, massive, grey colour, numerous inclusions (5cm to 40 cm of mafic volcanics)									
0	38.00	54.50	V6 - MAFIC VOLCANICS fine grained, usually fractured and altered									
1	38.00	42.00	- highly altered, silicified, sulphides disseminated and also along fractures, sulphide stringers parallel to CA and also 90° CA	98109 98110 98111	38.00 39.00 40.50	39.00 40.50 42.00	1.00 1.50 1.50	5 5 5	181 205 162	1227 1390 136	161 211 182	3 2 7
1	42.00	48.00	- still altered, locally silicified and slightly mineralized									
1	48.00	49.50	- stringers of po + blebs of cpy within altered volcanics	98112	48.00	49.50	1.50	6	137	126	223	10
1	49.50	51.00	- as above	98113	49.50	51.00	1.50	5	482	891	386	19
1	51.00	52.00	- breccia cemented by tonalite									
1	52.00	54.50	- massive, medium grained brownish tonalite with inclusions									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			of mafic volcanics									
0	54.50	135.00	V6, por - PORPHYRITIC ANDESITE grey green colour, fine grained, sheared and brecciated									
1	54.50	55.50	- highly brecciated/altered and silicified									
1	55.50	57.00	- as above, po-py-sphalerite along fractures and as stringers	98114	55.50	57.00	1.50	20	158	305	418	11
1	57.00	60.00	- strong fracturation + chlorite along fractures at low angle to CA.									
1	60.00	63.50	- about 1% rounded feldspar phenos, andecite is more massive less fractured, minor carbonate on fractures, few quartz - carb stringers of irregular orientations									
1	63.50	66.00	- usually fine to medium grained, core partly broken, fractures at low angle to CA									
1	66.00	69.00	- fine to medium grained, massive, 1% phenos of feldspars									
1	69.00	72.00	- as above, narrow zone at 45° to 55° CA more sheared and chloritic									
1	72.00	75.00	- micro brecciated and locally highly altered									
1	75.00	78.00	- as above									
1	78.00	79.00	- more massive, minor carbonate on fractures									
1	79.00	93.50										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	79.00	93.50	- fairly massive, fine grained and fine to medium grained (layering ?) gradual contacts, 1% to 4% fine phenos of feldspar, abundant chloritic fractures with locally minor carbonate, minor alteration along certain fractures									
1	93.50	94.50	- highly altered and silicified, light grey green colour, abundant qtz - carb hair-like stringers									
1	94.50	99.00	- highly fractured with chloritic fractures at low angle to CA									
1	99.00	102.00	- slightly altered, fractures usually parallel to CA									
1	102.00	103.50	- highly altered, silicified, minor pyrite usually disseminated, brownish quartz veinlets which are locally abundant	98115	102.00	103.50	1.50	5	72	118	159	4
1	103.50	105.00	- as above	98116	103.50	105.00	1.50	5	88	89	117	2
1	105.00	109.00	- fractured and usually highly altered, one zone 10 cm wide highly graphitic and oriented at 45° CA									
1	109.00	110.00	- more massive looking but micro fractured, irregular small masses of silica filling up fractures and locally they look like phenos ?									
1	110.00	119.00	- mafic volcanics, rare phenos, micro brecciated with irregular lenses of grey quartz									
1	119.00	127.00	- more massive, no phenos, few chloritic fractures with carbonate, rare silicified areas epidotized (?), few quartz - carbonate									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			stringers									
1	127.00	129.00	- highly altered with sericite epidote quartz carbonate flooding, minor disseminated pyrite									
1	129.00	132.00	- core partly broken and fractured at low angle to CA, pyrite sheets on chloritic fractures									
1	132.00	135.00	- zone of breccia cemented by quartz, fragments locally parallel to CA, trace py, much carbonate on fractures									
0	135.00	150.00	2D - DIORITE fine medium grained grey green colour, massive									
1	135.00	140.80	- usually fractured with dark colour (black) hair-like stringers, later quartz - carbonate stringers, some carb on fractures									
1	140.80	144.00	- massive, fine to medium grained, fractured with numerous quartz - carbonate stringers at 45° CA and also parallel to CA									
1	144.00	147.00	- medium grained, looks like gabbro with mafic minerals within an altered lighter coloured matrix									
1	147.00	148.50	- highly brecciated with qtz-carb cement, one quartz vein 30 cm wide oriented at 70° CA, black quartz - trace cpy + po, also grey quartz and pinkish quartz at center of vein	98492	147.30	148.90	1.60	7	81	72	51	14
1	148.50	150.00	- few chloritic fractures at low angle to CA, core badly broken									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			at lower contact									
0	150.00	180.00	V6 - MAFIC VOLCANICS dark grey black colour, fine grained (amphibolite ?)									
1	150.00	156.50	- highly fractured, chloritized, strong alteration along fractures locally over 15 cm away from fracture, abundant hair-like quartz stringers and rare hematized quartz later veinlets									
1	156.50	167.00	- coarsely brecciated, rare feldspar phenos, mafic volcanics are highly altered with irregular quartz flooding, grey quartz vein 30 cm wide with trace sulphide									
1	167.00	169.50	- more massive, finer grained, cherty looking (?) black colour	98491	169.20	170.30	1.10	5	531	95	12	2
1	169.50	170.00	- fractured with numerous fractures filled with po, 2 fractures 0.5 cm wide with massive po and larges blebs of massive cpy, these fractures are oriented at 25° to 40° CA									
1	170.00	173.00	- fractured with abundant quartz carbonate stringers locally parallel to CA									
1	173.00	173.50	- massive, fine grained, fractured and locally silicified, few amygdules like structures (?)									
1	173.50	175.50	- silicified and quartz flooded, grey quartz to black quartz, trace po									
1	175.50	177.00	- fractured with abundant quartz veinlets of irregular orientation									
1	177.00	180.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	177.00	180.00	- as above									
0	180.00	201.00	V6, por - PORPHYRITIC ANDESITE grey green colour, fine grained locally slightly coarser grained usually with gradual contacts									
1	180.00	183.00	- about 1.5% small phenos of feldspars									
1	183.00	186.00	- as above, minor py on fractures along with minor carbonate									
1	186.00	189.50	- small gradual variations in grain size (layering ?), still about 1% phenos fairly well disseminated, minor carbonate on fractures									
1	189.50	195.00	- slightly altered andesite, locally slightly porphiritic, py sheets on fractures locally at low angle to CA									
1	195.00	201.00	- more fractured, altered, silicified, carbonated, 5% grey quartz stringers + veinlets and rare veins at various angles, but 45° CA is dominant									
0	201.00	220.00	2D - DIORITE as before									
1	201.00	206.30	- coarse grained, rare phenos, micro brecciated with qtz-carb hair - like stringers, trace cpy close to quartz veinlets									
1	206.30	219.00	- fine to medium grained, fractured usually at low angle to CA, core partly broken, minor carb on fractures, about 1% phenos, rare qtz-carb stringers and veinlets									
1	219.00	220.00										



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	219.00	220.00	- section highly silicified with quartz veinlets at 80° CA									
0	220.00	261.00	V6 por - PORPHYRITIC ANDESITE as before									
1	220.00	222.00	- fractured andesite, rare phenos, sharp upper contact at 80° CA, much carbonate on fractures along with chlorite									
1	222.00	233.50	- fairly massive, narrow zones slightly coarser grained, rare phenos of feldspars locally looks like glassy amygdules (?), numerous fractures slightly altered and filled with quartz - carbonate									
1	233.50	234.70	- highly altered, sericitized, silicified, carbonated, quartz flooded, trace fine py - po	98494	233.50	235.00	1.50	5	99	50	2	5
1	234.70	239.00	- fractured, carbonated, rare phenos, abundant altered fractures filled up with qtz-carb veinlets oriented at 15° to 45° CA, trace sulphides									
1	239.00	254.60	- mafic to intermediate volcanics, fine grained, locally fine to medium grained with gradual contacts, very rare phenos of feldspars, fractured with hair-like stringers, one zone 30 cm wide highly altered (beige colour) oriented at 45° CA	98493	254.40	256.00	1.60	5	53	21	2	2
1	254.60	255.70	- Quartz vein greenish colour, darker grey quartz margins, few fractures with massive po stringers									
1	255.70	256.20	- fractured volcanics with abundant quartz - carbonate									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			stringers + veinlets									
1	256.20	258.00	- slightly fractured, rare rounded phenos (glomeroporphyritic texture) locally phenos look like rounded amygdules (?)									
1	258.00	261.00	- as above, in one place, large agglomeration of feldspar phenos up to 2.5 cm wide, here phenos looks like small inclusions (?)									
0	261.00	265.60	2D - DIORITE grey green colour, fine to medium grained, gradual contact over 5 cm (chilled margins ?) very rare phenos of feldspars, section slightly fractured with hair-like quartz carbonate stringers, minor sulphides + carbonate on fractures.									
0	265.60	270.40	V6, por - PORPHYRITIC ANDESITE as before, brecciated with locally dyklets (or layers ?) of diorite, rare phenos									
0	270.40	287.50	2D - DIORITE as before locally looks more like slightly porphyritic gabbro									
1	270.40	272.70	- upper contact at 70° CA, rare rounded phenos, core locally silicified and quartz flooded over 5 cm with trace po- cpy, zone at 70° CA, trace carbonate on fractures									
1	272.70	281.00	- fairly massive, fine- medium grained to medium grained, slightly porphyritic (glomeroporphyritic texture) locally felsic volcanic inclusions, chloritic fractures at low angle to CA									
1	281.00	283.50										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	281.00	283.50	- large inclusions of fine grained slightly porphyritic andesite, gradual contacts									
1	283.50	287.50	- fairly massive but fractured, rare elongated feldspar phenos									
0	287.50	307.50	V6 - MAFIC VOLCANICS as before									
1	287.50	289.30	- fine grained, dark grey green colour, usually highly fractured with abundant quartz - carbonate stringers, 30 cm section highly altered and beige colour, containing grey quartz veinlets + trace sulphides									
1	289.30	291.00	- breccia cemented by 20% grey quartz, rare hematized quartz veinlets , trace sulphides									
1	291.00	297.00	- fractured with abundant hair-like qtz-carb stringers, minor po along certain fractures									
1	297.00	300.00	- narrow zones of breccia cemented by grey to white quartz + carbonate									
1	300.00	305.80	- highly fractured (black chlorite rich fractures) abundant hair-like qtz-carb stringers, patches and ribbons of po, locally strong chloritic fractures (shear) at 15° to 20° CA									
1	305.80	307.50	- fractured, abundant qtz-carb hair-like stringers, rare quartz + minor po + trace cpy veinlets usually at low angle to CA									
0	307.50	316.10	2D-V6 - DIORITE - MAFIC VOLCANICS grey									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			green colour, fine grained and fine-medium grained bands (layering ?), core highly fractured and altered (silicified and carbonated), minor quartz flooding, fine dssmt po + qtz-carb-cpy veinlets									
0	316.10	334.00	V6 - MAFIC VOLCANICS as before									
1	316.10	322.50	- fractured, quartz - carb hair-like fractures at low angle to CA, locally more altered fractures injected by grey - white quartz with trace of sulphides									
1	322.50	324.00	- core locally partly broken, mafic volcanics dark grey green to black (amphibolite) colour									
1	324.00	327.00	- fractured and brecciated with quartz - chlorite - carbonate fractures locally parallel to CA									
1	327.00	330.00	- slightly more diorite looking, fine to medium grained, gradual contact (layering ?), qtz - carb veinlets parallel to CA									
1	330.00	334.00	- more massive, less fractured									
0	334.00	338.00	2D - DIORITE fine to medium grained, grey green colour, still fractured with qtz - carb on fractures, trace sulphides END of HOLE									

End of Lithology and Assays ;



*ddh Mine Cooke*

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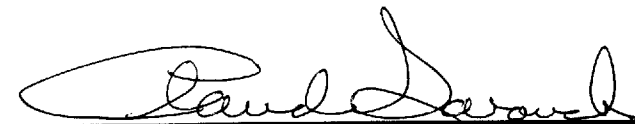
**Hole:** C-07-09

**Easting:** 511047.0      **Northing:** 5511851.0      **Elevation:** 0.00  
**AltNorthing:** 0.00      **AltEasting:** 0.00      **AltElevation:** 0.00  
**Azimuth:** 45.0      **Dip:** -50.0      **Length:** 99.00 m.  
**AltAzimuth:** 0.00

**Hole Type:** NQ      **Zone:** 18 NAD 83      **Contractor:** Forages Chibougamau  
**Started:** 29/08/2007      **Finished:** 30/08/2007      **Logged By:** C. Larouche ing.  
**Claim:** 85420      **Cemented:**       **Surveyed:**       **Casing:**

**Township:** Levy township. Chapais

**Description:**



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	22.00	OV - OVERBURDEN									
0	22.00	32.00	V6, por - PORPHYRITIC ANDESITE fine grained, grey to dark grey colour andesite, rare rounded phenos of feldspars									
1	22.00	22.50	- core badly broken									
1	22.50	31.00	- fine grained, highly fractured with abundant hair-like quartz- carbonate stringers, narrow zones which are silicified with grey to black quartz stringers and veinlets, trace sulphides									
0	31.00	33.00	2D - DIORITE massive, medium grained, minor carbonate on fractures, broken core at contacts									
0	33.00	39.00	V6, por - PORPHYRITIC ANDESITE dark grey to black colour, fine grained volcanics, certain layers (?) are altered and brecciated, flow breccia (?), minor quartz-carbonate stringers, trace sulphides, minor carb on fractures									
0	39.00	50.00	2D-3G - DIORITE-GABBRO fairly massive, fine grained at contacts, medium grained to locally medium-coarse grained									
1	39.00	39.50	- core usually badly broken									
1	39.50	40.50	- few layers of fine grained intermediate looking volcanics									
1	40.50	42.00	- carbonated, slightly brecciated with qtz-carb stringers									
1	42.00	45.00	- fairly massive, minor epidote									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			with qtz - feldspaths veinlets									
1	45.00	48.00	- medium grained to medium-coarse grained, becomes highly brecciated in places with abundant qtz-carb stringers									
1	48.00	50.00	- more greenish colour, slightly epidotized, brecciated with irregular qtz-carb stringers and veinlets, trace sulphides, minor carbonates on fractures									
0	50.00	79.00	V6 - MAFIC VOLCANICS fine to medium grained, massive, grey colour									
1	50.00	51.00	- darker grey colour, fine grained, silicified and locally banding at 40° CA									
1	51.00	54.00	- masive, fine to medium grained, locally core partly broken, minor carbonate on fractures									
1	54.00	57.00	- core partly broken, fractures at low angle to CA, section carbonated									
1	57.00	60.00	- fairly massive, few grey quartz stringers with chloritic margins									
1	60.00	63.00	- locally core badly broken, chloritic fractures with minor carbonate									
1	63.00	66.00	- fine to medium grained, slightly brecciated, numerous stringers of quartz + carbonate									
1	66.00	67.00	- fine grained, more fractured, slight sericite alteration along fractures usually over 1 cm									



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			(halos) around fractures, rare quartz stringers along these fractures									
1	67.00	68.00	- massive andesite, fine grained, grey green colour, usually slightly brecciated, altered in places									
1	68.00	69.00	- alteration (sericite = beige colour) along fractures, grey quartz stringers are abundant usually oriented at 40° CA, core highly silicified locally with grey to black quartz, trace py-po-cpy on fractures									
1	69.00	72.00	- core partly broken, carbonate on fractures, locally grey to beige quartz veins cut by grey quartz at 90°									
1	72.00	75.00	- slightly carbonated, fractured to brecciated, locally silicified and grey to black quartz injections, trace sulphides									
1	75.00	79.00	- fractured, brecciated and altered (beige colour) brecciation increases toward 79.0m, abundant hair-like fractures (qtz-carb) some quartz stringers cut by fractures filled with po-py+trace cpy									
0	79.00	99.00	V6, por - PORPHYRITIC ANDESITE massive grey colour, rare rounded phenos of feldspar, fine to medium grained									
1	79.00	83.00	- medium grained, diorite looking (?), highly fractured, carb on fractures, few "beige" quartz veinlets at 45° CA									
1	83.00	85.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	83.00	85.00	- core partly broken, chloritic - carbonate stringers, also carb on fractures, core is usually slightly brecciated									
1	85.00	87.00	- massive, still diorite looking (?), fine to medium grained, rare phenos									
1	87.00	89.50	- core locally partly broken, slightly brecciated with hair-like quartz-carbonate fractures									
1	89.50	90.50	- altered zone, beige colour (sericite), brecciated with hair-like quartz-carb stringers and few quartz veinlets, alteration persistent along fractures									
1	90.50	92.00	- brecciated and locally altered									
1	92.00	93.00	- core badly broken, brecciated with numerous hair-like qtz-carb stringers									
1	93.00	95.00	- locally finer grained, strongly brecciated with abundant quartz-carbonate stringers									
1	95.00	97.50	- less brecciated, rare rounded phenos, finely brecciated, locally patches of chalco + pyrrhotite along stringers (97.0m)									
1	97.50	99.00	- more silicified, locally sericitized, carbonate on fractures END of HOLE									

End of Lithology and Assays ;

*ddh Mine Cooke*


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*ddh Mine Cooke*

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**Hole:** C-07-10

<i>Easting:</i> 511150.0	<i>Northing:</i> 5511985.0	<i>Elevation:</i> 0.00
<i>AltNorthing:</i> 0.00	<i>AltEasting:</i> 0.00	<i>AltElevation:</i> 0.00
<i>Azimuth:</i> 45.0	<i>Dip:</i> -50.0	<i>Length:</i> 87.00 m.
<i>AltAzimuth:</i> 0.00		
<i>Hole Type:</i> NQ	<i>Zone:</i> 18 NAD 83	<i>Contractor:</i> Forages Chibougamau
<i>Started:</i> 30/08/2007	<i>Finished:</i> 31/08/2007	<i>Logged By:</i> C. Larouche ing.
<i>Claim:</i> 85420	<i>Cemented:</i> <input type="checkbox"/>	<i>Surveyed:</i> <input type="checkbox"/> <i>Casing:</i> <input type="checkbox"/>
<i>Township:</i> Levy township, Chapais		
<i>Description:</i>		



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	20.50	OV - OVERBURDEN									
0	20.50	47.40	V4-V1 - INTERMEDIATE TO FELSIC VOLVCANICS (?) grey to dark grey colour, always brecciated, altered, irregular qtz-carb stringers and veinlets, volcanics appear re-crystallized (?) locally (contact metamorphism ?)									
1	20.50	21.00	- abundant micro fractures with carbonate									
1	21.00	22.50	- altered (sericite-quartz- carbonate) along fractures usually over 1 cm, irregular grey quartz veinlets with massive pyrite at contacts and also disseminated pyrite within	98119	21.00	22.50	1.50	5	116	67	165	2
1	22.50	24.00	- as above(ERROR MISSING 1.0M OF CORE)									
1	24.00	25.50	- still fractured	98120	24.00	25.50	1.50	6	78	67	148	3
1	25.50	27.00	- more massive, less fractured, highly carbonated									
1	27.00	28.50	- fractured, slightly altered, minor sulphides mainly along fractures	98121	27.00	28.50	1.50	5	172	81	244	4
1	28.50	30.00	- as above	98122	28.50	30.00	1.50	5	99	67	194	5
1	30.00	31.50	- as above	98123	30.00	31.50	1.50	5	68	52	161	4
1	31.50	33.00	- as above	98124	31.50	33.00	1.50	5	106	62	167	6
1	33.00	34.50	- fractured, highly carbonated									
1	34.50	36.00	- minor epidote alteration (?), more cherty looking (black), concoidal fractures (?)	98125	34.50	36.00	1.50	5	105	60	189	7

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	36.00	37.50	- strongly altered in places, light grey colour, trace sulphides									
1	37.50	39.00	- highly fractured intermediate volcanics, epidote-carb-sericite along fractures, irregular stringers of sulphides (po), py+carb on fractures	98126	37.50	39.00	1.50	5	148	78	178	15
1	39.00	42.00	- highly brecciated with locally intrusive "fingers" at low angle to CA, light grey colour alteration along fractures									
1	42.00	43.50	- as above, irregular quartz stringers, trace sulphides	98127	42.00	43.50	1.50	5	123	184	189	18
1	43.50	47.40	- highly fractured, irregular intrusive "fingers", contact metamorphism (?) fine amphiboles (?)									
0	47.40	87.00	1T - TONALITE massive, medium to coarse grained, brownish grey colour, locally highly altered									
1	47.40	50.50	- altered locally along fractures at low angle to CA, silicified, carbonated and pyritized along fractures	98128	50.30	51.80	1.50	5	11	12	50	4
1	50.50	52.00	- altered, silicified, carbonated, locally 4% disseminated fine pyrite, rare grey quartz stringers at 55° CA									
1	52.00	54.50	- more massive, locally altered close to chloritic fractures at low angle to CA									
1	54.50	55.20	- massive, narrow silicified zones at 55° CA									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	55.20	57.80	- highly altered, greenish colour, strong silicification, highly carbonated (yellowish crystals), minor disseminated pyrite									
1	57.80	63.30	- massive, coarse grained, numerous small rounded mafic inclusions (amphibolite ?)									
1	63.60	67.50	- as above, few reddish quartz veins 5 to 10 cm wide oriented at 45° to 55° CA									
1	67.50	69.20	- locally hematized within more fractured area									
1	69.20	70.40	- grey colour altered, silicified, carbonated, slightly pyritized									
1	70.40	72.00	- massive, few rounded white feldspar phenos (?)									
1	72.00	74.80	- massive, locally core partly broken, narrow sections hematized									
1	74.80	79.20	- core partly broken, more reddish colour, hematized, slightly carbonated, chlorite on fractures									
1	79.20	79.50	- altered and slightly mineralized									
1	79.50	81.00	- silicified and pyritized, minor sericite alteration, chlorite quartz stringers locally parallel to CA, core is usually highly carbonated (yellow grains), masses of massive pyrite close to quartz stringers	98473	79.50	81.00	1.50	5	7	19	3	15
1	81.00	82.50	- altered, silicified carbonated <1% pyrite disseminated close to	98474	81.00	82.50	1.50	5	9	20	7	4

# ddh Mine Cooke

**Lithology and Assays:**

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	82.50	83.90	quartz veinlets oriented at 45° CA - only narrow sections which are altered	98475	82.50	84.00	1.50	65	6	49	19	2
1	83.90	84.20	- locally more pyritized in highly altered sections (silicified + carbonated)									
1	84.20	87.00	- more massive, brownish colour, narrow 15 cm wide altered sections oriented at 45° CA, (silicified, carbonated, minor pyrite) END of HOLE									

End of Lithology and Assays ;



ddh Mine Cooke

Hole: C-07-11

*Easting:* 511136.0      *Northing:* 5511959.0      *Elevation:* 0.00  
*AltNorthing:* 0.00      *AltEasting:* 0.00      *AltElevation:* 0.00  
*Azimuth:* 45.0      *Dip:* ~~-70.0~~  
-50      *Length:* 165.00 m.  
*AltAzimuth:* 0.00  
*Hole Type:* NQ      *Zone:* 18 NAD 83      *Contractor:* Forages Chibougamau  
*Started:* 30/08/2007      *Finished:* 02/09/2007      *Logged By:* C. Larouche ing.  
*Claim:* 85420      *Cemented:*       *Surveyed:*       *Casing:*   
*Township:* Levy township, Chapais  
*Description:*

*Deviations:*

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
165.00	40.60	0.00	-45.40	Multi-shot	Active

End of Deviations ; 1 record(s) printed.



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	21.00	OV - OVERBURDEN									
0	21.00	31.50	V4 - INTERMEDIATE VOLCANICS fine grained with minor leuco gabbro dykes and patches, core is fractured and brecciated, numerous quartz - carbonate stringers, patches of porphyritic dacite									
0	31.50	37.30	Min Zone - MINERALIZED ZONE altered and mineralized intermediate volcanics									
1	31.50	33.00	- silicified, stringers rich in po-py-cpy	98129	31.50	33.00	1.50	41	270	349	328	9
1	33.00	34.50	- locally large patches of po (3 cm wide) close to irregular white quartz veinlets	98130	33.00	34.50	1.50	24	435	75	381	9
1	34.50	36.00	- section 5 cm wide of massive pyrrhotite, also fractures rich in chalcopyrite, irregular 1 cm stringers of sulphide	98131	34.50	36.00	1.50	5	299	80	242	3
1	36.00	37.30	- brecciated, py-po-cpy along fractures, quartz vein 4 cm wide reddish grey colour, pyrite patches	98132	36.00	37.50	1.50	5	264	741	195	4
0	37.30	49.00	3G - GABBRO leucogabbro dykes 1m to 5m wide, interbedded (?) with intermediate volcanics									
1	37.30	37.90	- leucogabbro medium grained, inclusions of intermediate volcanics, fractures at low angle to CA with massive po, also patches of po within wallrock close to fractures									
1	37.90	39.50	- intermediate volcanics, fine									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			grained dark grey colour, core partly broken, fractures at low angle to CA									
1	39.50	40.00	- leucogabbro irregular contacts at 50° CA									
1	40.00	40.50	- altered intermediate volcanics									
1	40.50	42.00	- fractured and altered intermediate volcanics, py-po-cpy along fractures, foliation at 45° CA	98133	40.50	42.00	1.50	5	118	64	150	2
1	42.00	43.50	- as above	98134	42.00	43.50	1.50	5	129	49	174	3
1	43.50	44.50	- as above									
1	44.50	49.00	- massive, medium grained to coarse grained leucogabbro, rare qtz-carb fractures, rare hematized fractures									
0	49.00	61.50	V4 - INTERMEDIATE VOLCANICS dark grey colour, fine grained									
1	49.00	52.50	- fractured, altered, narrow zone with quartz flooding, minor sulphide, core partly broken									
1	52.50	53.00	- highly brecciated intermediate volcanics, dark grey colour	98481	52.50	54.00	1.50	5	136	81	10	2
1	53.00	54.50	- brecciated, altered and mineralized, silicified, carbonated, py-po-cpy along stringers and also as disseminated patches (?)	98482	54.00	55.50	1.50	5	150	51	2	2
1	54.50	57.00	- becomes less altered, highly fractured, core locally badly broken									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	57.00	61.50	- as above	98478	59.00	61.50	2.50	5	163	48	2	14
0	61.50	68.50	V4 - INTERMEDIATE VOLCANICS to locally felsic volcanics, massive, fine grained to medium grained, light grey colour, carbonate on fractures									
1	61.50	63.00	- altered and brecciated, quartz + minor po-cpy on fractures cut by grey-white quartz veinlets with patches of po-cpy	98477	61.50	63.00	1.50	5	172	48	2	19
1	63.00	66.00	- fractured to brecciated, irregular quartz flooding over narrow areas, more chloritic fractures locally									
1	66.00	68.50	- as above, numerous quartz - carb hair-like stringers locally oriented at 20° CA, minor carbonate on fractures									
0	68.50	73.50	V4 - INTERMEDIATE VOLCANICS fairly massive, fine grained, grey to grey green colour									
1	68.50	69.30	- highly fractured, numerous hair-like fractures and stringers of qtz-carb with locally py-po-trace cpy, irregular quartz veinlets oriented at 40° CA									
1	69.30	72.40	- as above, slightly altered along fractures, altered zones cut by grey quartz, minor pyrite disseminated, rare py-po-cpy along some fractures									
1	72.40	73.50	- as above, weak schistosity at 45° to 50° CA									
0	73.50	75.00	2D									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			- DIORITE grey colour, fine to medium grained, irregular chloritic stringers									
0	75.00	77.00	V4 - INTERMEDIATE VOLCANICS as before. Highly fractured, core partly broken									
0	77.00	80.00	2D - DIORITE grey colour, fine to medium grained diorite (maybe coarse flow ?)									
0	80.00	81.00	3G - LEUCO GABBRO grey white colour, amphiboles + biotite as mafic minerals, chloritic fractures with carbonate, contacts irregular and broken up									
0	81.00	83.00	V4 - INTERMEDIATE VOLCANICS massive, fine to fine-medium grained volcanics or diorite, highly fractured, chlorite + minor carbonate on fractures, trace sulphides, minor silicification, rare quartz veinlets									
0	83.00	165.00	3G - GABBRO massive, medium grained to coarse grained, pinkish grey colour, locally reddish (hematized), silicified in places (grey colour)									
1	83.00	84.00	- upper contact sharp at 55° CA									
1	84.00	90.00	- reddish (hematized) colour, locally core partly broken, carbonated (dotted with white carbonate crystals)									
1	90.00	93.00	- locally highly silicified, chloritic fractures, rare hair-like quartz-carbonate stringers parallel to CA									
1	93.00	96.00	- massive, pinkish grey colour, medium to coarse grained, hematite alteration over 1 cm									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			width along irregular fractures									
1	96.00	100.50	- as above, narrow grey silicified zones with trace pyrite									
1	100.50	102.00	- fairly massive, rare fractures at low angle to CA									
1	102.00	103.50	- altered section, minor sericite, silicified and carbonated, also carbonate on fractures, trace sulphide	98480	102.00	103.50	1.50	5	10	23	10	6
1	103.50	105.00	- slightly hematized									
1	105.00	116.00	- medium to coarse grained, massive, rare chloritic fractures which are usually hematized, rare white to grey quartz veinlets									
1	116.00	117.00	- locally silicified with 10cm reddish quartz vein at 55° CA, trace sulphide									
1	117.00	128.00	- massive, medium grained to coarse grained, few rounded inclusions of mafic material, narrow silicified and hematized sections, rare quartz veinlets also reddish colour (hematized)									
1	128.00	131.00	- strongly hematized section, rare epidote stringers									
1	131.00	134.00	- less hematized still slightly reddish in colour, numerous rounded inclusions of fine grained mafic material (amphibolite ?)									
1	134.00	138.00	- slightly fractured, chlorite on fractures, altered locally silicified, trace pyrite	98479	137.00	138.50	1.50	8	7	38	4	7
1	138.00	138.50										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	138.00	138.50	- fractured, silicified and minor pyrite locally, grey green colour									
1	138.50	139.50	- 60% grey to white quartz vein, fractured with chlorite on fractures, altered granodiorite at contacts is strongly silicified, carbonated with minor sericite and fine sulphide (Au ?)	98476	138.50	139.50	1.00	6	6	14	20	2
1	139.50	141.00	- slightly fractured and altered									
1	141.00	142.00	- as above, numerous hair-like quartz - carbonate stringers usually at low angle to CA									
1	142.00	144.00	- more massive, pinkish grey colour									
1	144.00	147.00	- narrow slightly altered sections, grey green colour, minor silicification, rare narrow section of badly broken core									
1	147.00	150.00	- massive, medium to coarse grained									
1	150.00	151.50	- as above, locally numerous fine mafic inclusions, rounded, minor carb - chlorite on fractures usually at 20° CA									
1	151.50	153.00	- massive, chlorite on rare fractures, few reddish stringers									
1	153.00	156.00	- locally silicified with rare whiye quartz veinlets, reddish (hematized) alteration along fractures (over 3.0cm)									
1	156.00	159.00	- rare fine inclusions of mafic volcanics, silicified zones more grey green colour cut by qtz-carb stringers with chloritic margins									

# ddh Mine Cooke

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>SampleNum</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>ppb</i>	<i>Cu</i> <i>ppm</i>	<i>Zn</i> <i>ppm</i>	<i>Pb</i> <i>ppm</i>	<i>As</i> <i>ppm</i>
1	159.00	162.00	- fairly massive, coarse grained									
1	162.00	165.00	- as above, locally epidote stringers parallel to CA cutting across hematite alteration zone END of HOLE									

End of Lithology and Assays ;



# ddh Mine Cooke

**Hole:** C-07-12

**Easting:** 511051.0      **Northing:** 5511853.0      **Elevation:** 0.00  
**AltNorthing:** 0.00      **AltEasting:** 0.00      **AltElevation:** 0.00  
**Azimuth:** 225.0      **Dip:** -48.0      **Length:** 575.00 m.  
**AltAzimuth:** 0.00

**Hole Type:** NQ      **Zone:** 18 NAD 83      **Contractor:** Forages Chibougamau  
**Started:** 02/09/2007      **Finished:** 12/09/2007      **Logged By:** C. Larouche ing.  
**Claim:** ~~86446~~ 85420      **Cemented:**       **Surveyed:**       **Casing:**

**Township:** Levy township, Chapais

**Description:**

**Deviations:**

Depth	Azimuth	AltAzimuth	Dip	Type	State
105.00	223.90	0.00	-43.90	Multi-shot	Active
402.00	225.80	0.00	-41.30	Multi-shot	Active
573.00	226.30	0.00	-40.40	Multi-shot	Active

318.00	225.30	0.00	-41.70	Multi-shot	Active
501.00	225.90	0.00	-40.90	Multi-shot	Active

End of Deviations ; 5 record(s) printed.



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	20.50	OV - OVERBURDEN									
0	20.50	34.50	V6 - MAFIC VOLCANICS dark grey to black colour, massive, irregular small phenos of feldspars, slightly altered along fractures									
0	34.50	40.00	2D - DIORITE fine to medium grained, massive, grey colour, upper contact at 40° CA, core badly broken at lower contact									
0	40.00	55.00	V6 - MAFIC VOLCANICS as above, usual dark grey green colour									
1	40.00	47.00	- locally highly fractured with abundant qtz - carb stringers and veinlets, minor pyrite on chloritic fractures									
1	47.00	55.00	- black colour amphibolite (?) micro brecciated with fractures filled up by quartz carbonate. Locally pseudo feldspar phenos									
0	55.00	62.00	2D - DIORITE fine to medium grained, grey colour, sharp contact at 80° CA									
0	62.00	76.00	V6 - MAFIC VOLCANICS altered, locally epidotized - silicified - carbonated over 30 cm bands, locally quartz flooding over 15 cm.									
0	76.00	82.10	V6 - MAFIC VOLCANICS altered locally flow breccia (?) with grey qtz matrix, fragments with altered halos									
0	82.10	89.00	2D - DIORITE fine grained, grey colour,	98144	84.00	85.50	1.50	5				

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			massive, brecciated altered with quartz flooding over first half of section, minor sulphide along fractures, pyrite also finely disseminated in more altered zones.									
0	89.00	105.00	V6, altered - ALTERED MAFIC VOLCANICS altered volcanics with minor shale looking (?) sections 40 cm wide oriented at 60° CA									
0	105.00	108.10	V6 - MAFIC VOLCANICS massive, fine grained, irregular quartz carbonate veinlets									
0	108.10	125.00	3G - GABBRO mafic crystals with a finer grained lighter colour altered matrix, sharp upper contact at 80° CA, gradual lower contact									
0	125.00	130.50	2D - DIORITE fine to medium grained, grey to grey green colour, slightly fractured									
0	130.50	193.00	V6 - SLIGHTLY PORPHYRITIC MAFIC VOLCANICS rare phenos									
1	130.50	132.30	- few phenos of feldspars									
1	132.30	142.50	- looks like intermediate volcanics, fractured and altered									
1	142.50	145.50	- pyrite-pyrrhotite on fractures, locally galena (?)	98136 98137	142.50 144.00	144.00 145.50	1.50 1.50	5 5	442 275	108 3839	281 2543	4 9
1	145.50	160.00	- coarsely brecciated and altered with epidote - quartz - carbonate, locally reddish stringers (hematized quartz)									
1	160.00	165.00	- mafic volcanics, locally badly broken core where fractures at low angle to CA, section usually									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			brecciated and altered in places									
1	165.00	167.00	- gabbro dyke, irregular contacts									
1	167.00	187.00	- in places 30 cm sections altered, 10 cm sections are quartz flooded, grey to black quartz irregular veinlets are abundant, irregular orientations, rare pyrrhotite rich stringers									
1	187.00	192.00	- mafic volcanics, no phenos, still fractured and altered epidote-sericite-quartz, also hair-like fractured filled up with quartz + minor carbonate									
1	192.00	193.00	- zone with one massive pyrrhotite vein + trace chalcopyrite, cherty fragments present within this zone	98135	192.00	193.50	1.50	5	206	155	526	7
0	193.00	220.70	V6, por - PORPHYRITIC ANDESITE									
1	193.00	195.00	- locally silicified with minor po over 15 cm sections oriented at 70° CA									
1	195.00	210.00	- fine grained, fairly massive, locally glomeroporphyritic texture, about 1% phenos of feldspar, rare intermediate to felsic dyklets with 2% disseminated po, rare gabbro dykes, pyrite sheets along fractures, one massive po stringer at 25° CA, 5 cm wide	98141 98142 98143	195.00 207.00 208.50	196.50 208.50 210.00	1.50 1.50 1.50	5 5 5	91	61	149	3
1	210.00	213.00	- large phenos up to 2 cm, section is altered, fractured with minor po on fractures									
1	213.00	217.50	- as above, few irregular quartz	98140	213.00	214.50	1.50	5	180	101	184	4

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			veinlets	98139	214.50	216.00	1.50	5	80	69	125	3
				98138	216.00	217.50	1.50	5	67	76	176	5
1	217.50	220.70	- highly fractured and altered epidote-silica-carbonate	98202	219.00	220.50	1.50	5				
				98203	220.50	222.00	1.50	5				
0	220.70	222.50	MS - MASSIVE SULPHIDE massive pyrrhotite with layers ( inclusions) of pyrite, bedding at 60° CA (it appears that pyrite has been replaced by pyrrhotite)									
0	222.50	223.50	3G - GABBRO sheared and carbonated									
0	223.50	225.00	MD - MAFIC DYKE locally fractures over 15 cm section with 20% pyrrhotite	98266	223.50	225.00	1.50	1	107	294	2	40
0	225.00	227.00	S - CHERTY SEDIMENTS abundant pyrrhotite stringers, trace chalcopyrite	98201	225.00	226.50	1.50	5				
				98150	226.50	228.00	1.50	5				
0	227.00	228.50	S - TUFFACEOUS AND CHERTY SEDIMENTS									
1	227.00	228.50	- chert grey to beige colour, fractured with carbonate and minor po on fractures	98149	228.00	229.50	1.50	5				
0	228.50	230.00	S4, graphite - GRAPHITIC SHALE about 30% massive pyrrhotite stringers at low angle to CA, pyrrhotite increases to 50% toward 230 m	98145	229.50	231.00	1.50	5				
0	230.00	235.50	S - SILICEOUS CHERTY SEDIMENTS abundant pyrite layers and also coarse pyrite along fractures, locally glassy pinkish brown colour (?)	98146	231.00	232.50	1.50	5				
				98147	232.50	234.00	1.50	5				
				98148	234.00	235.50	1.50	5				
0	235.50	237.50	MD - MAFIC DYKE grey colour, fine grained, massive, minor po on fractures									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	237.50	239.60	S - CHERTY SEDIMENTS about 20% pyrrhotite									
0	239.60	250.60	S4, graphite - GRAPHITIC SHALE locally badly broken where more graphitic, in lower section about 35% massive po stringers always at low angle to CA, minor dyklets of mafic dyke	98251 98252 98253 98269 98270	243.00 244.50 246.00 247.50 250.50	244.50 246.00 247.50 249.00 252.00	1.50 1.50 1.50 1.50 1.50	7 5 11 10 8	468 327 475 467 352	907 2110 1760 1830 192	8 34 22 28 12	2 4 2 2 2
0	250.60	251.70	MD - MAFIC DYKE grey colour, fine grained massive, irregular contacts at 50° CA, minor po on fractures									
0	251.70	257.70	S4, graphitic - GRAPHITIC SHALE, locally more cherty sections, dark grey to black colour, minor pyrrhotite stringers	98254 98255	252.00 253.50	253.50 255.00	1.50 1.50	5 5	59 28	49 63	7 13	7 2
0	257.70	260.00	MD - MAFIC DYKE as before, massive, more siliceous locally, rare fractures with trace po, contacts irregular at about 40° CA	98271	258.00	259.50	1.50	5	158	114	5	2
0	260.00	266.00	S4, graphitic - GRAPHITIC SHALE locally 30% pyrrhotite stringers always at low angle to CA, at 265.1m fault gouge over 5 cm and at 90° CA	98267	261.00	262.50	1.50	12	496	1740	40	31
0	266.00	268.00	MD - MAFIC DYKE locally fractured and slightly altered, patches of po in places									
0	268.00	280.00	MD - MAFIC DYKE fine grained, massive, dark grey colour									
1	268.00	269.00	- core badly broken, upper contact at 80° CA, cpy on rare fractures, minor patches									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			(inclusions) rich in po									
1	269.00	273.00	- few large inclusions 40 cm wide of graphitic shale with minor po stringers									
1	273.00	274.50	- cherty inclusions with few po stringers at low angle to CA	98256	273.00	274.50	1.50	5	153	61	3	2
1	274.50	280.00	- fairly massive	98257	276.00	277.50	1.50	5	96	98	4	2
				98258	277.50	279.00	1.50	5	151	424	14	2
				98259	279.00	280.50	1.50	5	233	703	56	2
0	280.00	282.50	S6	98260	280.50	282.00	1.50	5	253	2320	1395	7
			- CHERT black chert fractured with py - po, abundant mafic dykes, locally stringers of massive brownish sphalerite in contact with massive sulphide (pyrite)	98261	282.00	283.50	1.50	14	88	7060	1085	62
0	282.50	306.50	MS - MASSIVE SULPHIDE (PYRITE) massive pyrite horizon, minor chert and also graphitic argillites									
1	282.50	285.00	- massive pyrite, fractured with minor cpy + sphalerite, fractures are usually filled up with pyrrhotite	98262	283.50	285.00	1.50	12	108	2110	207	64
1	285.00	289.50	- locally 80% pyrrhotite with rare rounded blocks of pyrite, pyrrhotite also contains minor chalcopyrite and other black grains (?)	98263	285.00	286.50	1.50	9	644	544	26	35
				98264	286.50	288.00	1.50	9	697	3410	10	9
				98265	288.00	289.50	1.50	6	461	2220	171	40
1	289.50	306.00	- massive pyrite, minor less than 1% chert fragments, minor graphite on fractures locally	98076	289.50	291.00	1.50	8	111	135	71	35
				98077	291.00	292.50	1.50	5	75	77	42	38
				98078	292.50	294.00	1.50	5	74	111	37	47
				98079	294.00	295.50	1.50	7	61	45	26	69
				98080	295.50	297.00	1.50	5	67	82	28	62
				98081	297.00	298.50	1.50	6	45	167	30	58
				98082	298.50	300.00	1.50	5	47	134	40	72
				98083	300.00	301.50	1.50	5	62	139	36	59
				98084	301.50	303.00	1.50	8	56	94	23	64
				98085	303.00	304.50	1.50	7	102	120	26	61
				98086	304.50	306.00	1.50	11	372	109	27	62
1	306.00	306.50										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	306.00	306.50	- po matrix increases to 70% toward 306.5m, still rounded blocks of pyrite, lower contact oriented at 70° CA. Pyrite appears replaced by pyrrhotite	98087	306.00	306.80	0.80	5	421	54	19	51
0	306.50	329.90	Marble - MARBLE white to grey colour, medium grained, locally broken black chert layers within marble. Possibly impure limestone + contact metamorphism.									
1	306.50	309.00	- upper contact at 60° CA									
1	309.00	312.00	- layering at 30° CA									
1	312.00	315.00	- layering locally parallel to CA, stringers of massive po + large py cubes and trace of cpy, stringers at low angle to CA, pyrite is replaced by pyrrhotite (?)									
1	315.00	318.00	- locally black layers curved in and out of section over 40 cm									
1	318.00	321.00	- good bedding at 30° CA, locally cross-bedding (?) or displacement on a fracture									
1	321.00	323.00	- bedding usually at low angle to CA									
1	323.00	326.50	- as above, bedding at 35° CA									
1	326.50	329.90	- white marble with black filaments, lower contact is more silicified									
0	329.90	340.50	MD - MAFIC DYKE fine grained to fine - medium grained, slightly porphyritic (glomeroporphyritic texture), upper contact at 55° CA, lower contact irregular and injected with a semi-massive stringer of po									



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	340.50	371.50	1T	98268	348.00	349.50	1.50	5	371	63	10	2
			- TONALITE medium grained, massive, locally looks like a quartz-feldspar porphyry, silicified in places with grey quartz veins 5 cm wide oriented at 65° to 75° CA, minor mafic dyke from 367m to 368m	98274	367.50	369.00	1.50	5	71	33	8	9
				98272	369.00	370.50	1.50	5	83	22	6	2
				98273	370.50	372.00	1.50	5	171	41	3	2
0	371.50	374.30	S - TUFFACEOUS SEDIMENTS dark grey colour, siliceous layers with lapillis, fractured with po stringers, po also disseminated throughout, very hard section cherty (?)									
0	374.30	381.00	Marble - MARBLE impure limestone as before, good bedding at 35° to 40° CA, medium grained									
0	381.00	384.30	S - TUFFACEOUS SEDIMENTS as before, dark green horizon siliceous (very hard) with about 10% pyrrhotite disseminated and also present along fractures, trace chalcopyrite									
0	384.00	390.20	Marble - MARBLE as before, grey to white layers, section locally silicified, bedding at 45° CA, few layers of black cherty material, rare carbonate fractures at low angle to CA	98088	384.00	386.00	2.00	5	40	7	7	3
1	390.00	394.50	- fine to medium grained grey colour locally black and cherty									
0	390.20	394.50	Limestone - LIMESTONE grey marble, impure limestone grey colour, silica in variable amount, good bedding at 40° to 45° CA									
0	394.50	395.50	Marble - MARBLE beige colour, few narrow sections silica rich, bedding at 45°CA,	98089	394.50	395.50	1.00	5	17	21	7	4

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			bedding locally slightly folded (?)									
0	395.50	401.00	1T - TONALITE looks like quartz-feldspar porphyry, medium grained, grey colour, locally fractured and silicified with qtz-po as stringers and veinlets locally parallel to CA, 1 m section at upper contact is highly silicified	98090	395.50	397.50	2.00	5	132	7	6	2
0	401.00	418.40	V10 - FRAGMENTALS varies in colour from grey to beige to white, locally dark grey fragments, 1 to 5 cm in size, within a medium grained grey to white matrix									
1	401.00	411.00	- fragments 1 to 5 cm of felsic material locally bleached within a grey medium grained matrix, carbonate + quartz + minor pyrrhotite are present									
1	411.00	414.00	- as above, 50% grey to dark grey fragments, the other 50% is creamy to white colour matrix, light grey colour alteration rim around fragments									
1	414.00	418.40	- as above, fragments slightly coarser (?) all creamy in colour									
0	418.40	421.70	1FP - FELDSPAR PORPHYRY grey colour, massive, 3% fine disseminated pyrrhotite, one section 50 cm wide of dark grey fine grained (felsic dyke ?)									
0	421.70	426.40	V10, grey - FRAGMENTALS grey colour									
1	421.70	426.40	- 70% blocks 1 cm to 5 cm of felsic material (rhyolite), very rare mafic blocks, all within a grey matrix									
0	426.40	441.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	426.40	441.00	V10 - FRAGMENTALS beige colour, abundant bleached blocks 0.5 cm to 3.0 cm, weak foliation at 40° CA within grey quartz - carbonate matrix, rare good bedding at 40° CA, locally large garnet (?)									
0	441.00	443.90	V10 - FRAGMENTALS dark grey colour, grey fragments not bleached within a grey matrix, foliation at 40°CA, slightly elongated fragments									
0	443.90	445.00	Limestone - LIMESTONE weak bedding at 35° to 40° CA, fairly massive, fine grained, fine disseminated pyrrhotite (easily scratched)									
0	445.00	456.30	V10 - FRAGMENTALS beige colour, more massive at 445m, central portion contain large fragments 20 cm, lower section fragments more abundant and smaller fro 2cm to 10cm, matrix is medium grained, granitic locally (?) bedding at 40°CA	98091	456.00	457.50	1.50	5	85	167	30	4
0	456.30	457.90	FD - FELSIC DYKE granitic dyke, medium grained, fine disseminated sulphide, few inclusions, contacts at 40° CA									
0	457.90	460.00	V10 - FRAGMENTALS rounded felsic and also more mafic blocks (mafic blocks with alteration halos)									
0	460.00	463.00	V10 - FRAGMENTALS dark grey colour, locally massive, fine grained, siliceous sections, layers with felsic fragments									
0	463.00	473.00	V10 - FRAGMENTALS locally bleached, alternating sections with highly bleached fragments up to 15 cm within a quartz +									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			carbonate +5% fine disseminated matrix, other layers contain grey fragments within grey matrix									
0	473.00	476.00	V10 - FRAGMENTALS grey colour, subangular to rounded blocks up to 10 cm of grey cherty rhyolite material within a fine grained grey matrix									
0	476.00	481.60	V10 - FRAGMENTALS dark grey colour									
1	476.00	481.60	- dark grey colour, fragments- blocks 1 cm to 10 cm of fine grey rhyolite, brownish carbonate, within a dark grey green (?) matrix, locally irregular patches of semi-massive to massive pyrrhotite + trace chalcopyrite									
0	481.60	484.30	V10 - FRAGMENTALS bleached, bleached fragments up to 5 cm across within a coarser grained carbonate matrix, locally fragments are not bleached									
0	484.30	485.00	1T - TONALITE dyke, contacts at 75° CA, sharp but finer grained (chilled margins ?)									
0	485.00	487.90	V10 - FRAGMENTALS bleached, as above zones with highly bleached fragments (rhyolite) within a carbonate matrix									
0	487.90	489.40	1T - TONALITE medium to coarse grained, biotite rich, quartz eyes, rare inclusions of V10, contacts at 45° to 60° CA									
0	489.40	496.90	V10 - FRAGMENTALS bleached, mainly bleached felsic (rhyolite) fragments from 1									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			cm to 10 cm, rare mafic fragments 2 cm with alteration rims, all fragments rounded within pinkish - white matrix									
0	496.90	500.00	V10 - FRAGMENTALS grey colour, more massive, about 10% rounded fragments within a dark grey siliceous matrix, minor pyrrhotite locally disseminated and also in patches									
0	500.00	501.00	1T - TONALITE contacts at 45° CA									
0	501.00	503.00	V10 - FRAGMENTALS light grey colour, rounded blocks 1 to 10 cm slightly bleached within a light grey matrix (silica-carbonate)									
0	503.00	504.20	1T - TONALITE biotite, quartz eyes, contacts at 45° CA									
0	504.20	519.30	V10 - FRAGMENTALS grey to dark grey colour, slightly bleached, grey to brownish fragments within a more greenish matrix, locally rare feldspar phenos, possibly quartz eyes, massive po + trace cpy in patches 4 cm X 1 cm, micro brecciated in places									
0	519.30	522.00	1T - TONALITE with locally large fragments of V10									
0	522.00	533.80	V10 - FRAGMENTALS light grey to brownish colour, felsic (rhyolite) blocks within a fine grained matrix									
1	522.00	526.50	- blocks 1 cm to 20 cm of mainly felsic material into a greenish matrix									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	526.50	528.00	- fairly rounded blocks 1 to 10 cm of felsic material light grey to grey-beige in colour within a darker grey fine grained matrix									
1	528.00	531.00	- as above, about 50% blocks and lapillis									
1	531.00	533.80	- locally grey felsic blocks are altered (mainly rims) to creamy beige colour within an epidotized matrix									
0	533.80	534.50	1T - TONALITE dyke of tonalite, sharp contacts at 80° CA, minor inclusions of altered V10									
0	534.50	543.70	V10 - FRAGMENTALS creamy colour									
1	534.50	539.40	- creamy to pinkish colour, grey to beige lapillis within a fine grained light grey matrix, locally large garnet (?)									
1	539.40	540.20	- grey colour fragmentals, lapillis to small blocks of felsic (rhyolite) material within a darker grey matrix, foliation at 45° CA									
1	540.20	543.70	- as before, creamy fragmentals, grey lapillis to block size within a grey creamy matrix, locally large patches 10 cm of garnet (?)									
0	543.70	572.00	V10 - FRAGMENTALS grey to dark grey,									
1	543.70	549.00	- small 2.5 cm to large blocks 10 cm of grey felsic material (appears to be mainly rhyolite) within a dark grey green									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			(amphibolite ?) matrix									
1	549.00	552.00	- as above, about 30% blocks									
1	552.00	558.00	- locally felsic blocks increases to 80% by volume, with 20% amphibole rich matrix									
1	558.00	561.00	- still mainly rhyolite lapillis to block sizes, weak foliation at 45° CA									
1	561.00	570.20	- as above, less fragments but larger up to 30 cm (?)									
1	570.20	571.00	- tonalite dyke at 45° CA, biotite rich									
1	571.00	572.00	- abundant lapillis 60% within a dark grey matrix									
0	572.00	575.00	1T - TONALITE biotite rich, medium grained, quartz rich, massive with few inclusions of V10, END of HOLE									

End of Lithology and Assays ;

ddh Mine Cooke

**Hole:** C-07-13

**Easting:** 511099.0      **Northing:** 5512208.0      **Elevation:** 0.00  
**AltNorthing:** 0.00      **AltEasting:** 0.00      **AltElevation:** 0.00  
**Azimuth:** 45.0      **Dip:** -50.0      **Length:** 168.00 m.  
**AltAzimuth:** 0.00  
**Hole Type:** NQ      **Zone:** 18 NAD 83      **Contractor:** Forages Chibougamau  
**Started:** 13/09/2007      **Finished:** 14/09/2007      **Logged By:** C. Larouche ing.  
**Claim:** 85420      **Cemented:**       **Surveyed:**       **Casing:**   
**Township:** Levy township, Chapais  
**Description:**

**Deviations:**

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
168.00	221.20	0.00	-47.70	Multi-shot	Active

End of Deviations ; 1 record(s) printed.





# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	37.50	OV - OVERBURDEN									
0	37.50	90.00	V4 - INTERMEDIATE VOLCANICS variably brecciated and altered									
1	37.50	39.00	- zone highly altered light green colour with quartz + sulphide stringers									
1	39.00	44.00	- highly fractured with quartz + carbonate + chlorite + minor sulphides stringers at low angle to CA									
1	44.00	45.00	- locally slightly porphyritic, also numerous amygdules (mafic core, felsic rims)									
1	45.00	48.00	- fairly massive, few fractures at low angle to CA									
1	48.00	51.00	- section more fine grained, black in colour, some sections are highly altered with sericite, quartz, carbonate and trace sulphides									
1	51.00	54.00	- again black colour more cherty looking									
1	54.00	57.00	- brecciated, altered along fractures, locally amygdules									
1	57.00	60.00	- brecciated, abundant qtz-carb hair-like stringers, few qtz+sulphide veinlets at 40° CA, rare quartz + hematized quartz veins at 10° CA with trace sulphide and chloritic margins									
1	60.00	63.00	- brecciated, minor epidote alteration along fractures,									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			irregular quartz veinlets locally parallel to CA, stringers of massive po cutting (?) quartz veinlets									
1	63.00	66.00	- as above									
1	66.00	69.00	- grey quartz veinlets parallel to CA, local patches of sulphides (po + trace cpy)									
1	69.00	72.00	- locally amygdules like texture, mafic core surrounded by felsic material									
1	72.00	75.00	- highly brecciated, amygdules locally abundant over 3 cm, grey quartz veinlets at 15° CA									
1	75.00	76.00	- numerous hair-like quartz - carbonate stringers in brecciated sections, trace carbonate on fractures									
1	76.00	78.00	- slightly brecciated, locally amygdules like texture, rounded mafic core surrounded by more light grey material (felsic)									
1	78.00	81.00	- section highly brecciated with abundant qtz-carb hair-like stringers									
1	81.00	84.00	- numerous fractures filled up with pyrrhotite, also rare po stringers									
1	84.00	87.00	- additional 3m core, section has 6m of core, usually massive, brecciated slightly carbonated									
1	87.00	88.50	- massive, more diorite looking, fine to medium grained, gradual contacts									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	88.50	90.00	- locally more altered over 30 cm wide zones, carbonated (?)									
0	90.00	91.30	2D - DIORITE massive, dark grey colour, fine to medium grained, few fractures at low angle to CA, rare quartz stringers									
0	91.30	97.70	V4 - INTERMEDIATE VOLCANICS as before									
1	91.30	93.00	- locally core partly broken, fractures at low angle to CA, section highly fractured and altered (silica, epidote, sericite, carbonate)									
1	93.00	96.00	- more massive less altered, few quartz - carbonate + sulphide veinlets at 75° CA									
1	96.00	97.70	- locally rare amygdules (?), slightly porphyritic appearance									
0	97.70	99.00	2D - DIORITE as before, fine to medium grained, massive, gradual contacts (?)									
0	99.00	102.10	V4 - INTERMEDIATE VOLCANICS as before, massive, slightly carbonated, abundant hair-like qtz-carb stringers									
0	102.10	112.70	2D - DIORITE fine to medium grained fairly massive, locally brecciated with abundant qtz-carb stringers, minor sulphides on fractures									
1	102.10	105.00	- micro diorite, fairly massive, fine to medium grained, fractured, irregular quartz stringers									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	105.00	108.00	- fractured with numerous irregular qtz-carb stringers , locally grey quartz + semi-massive po veinlets at 45° to 60° CA, all quartz stringers + veinlets have alteration halos up to 1 cm wide									
1	108.00	111.00	- as above, few chloritic fractures									
1	111.00	112.70	- as above, slightly more fractured									
0	112.70	147.50	V4 - INTERMEDIATE VOLCANICS as before									
1	112.70	114.00	- gradual contact (?) fractured with numerous stringers of massive po + qtz, some disseminated po close to fractures									
1	114.00	120.50	- usually fractured and brecciated, alteration along fractures (sericite, silica, epidote, carbonate, hematite), py-po on fractures									
1	120.50	123.00	- slightly altered and fractured									
1	123.00	124.50	- more fractured and altered, py-po + trace cpy along fractures, irregular stringers of semi-massive po, "ALTERATION ZONE" for massive sulphides (?)	98275	123.00	124.50	1.50	5	170	63	4	2
1	124.50	126.00	- as above, section 15 cm wide of semi-massive po, trace cpy	98276	124.50	126.00	1.50	5	152	52	4	2
1	126.00	129.00	- fractured, alteration mainly along fractures, few minor py-po + trace cpy stringers									
1	129.00	132.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	129.00	132.00	- less altered									
1	132.00	135.00	- as above, becomes more altered toward 135m									
1	135.00	136.50	- highly fractured, brecciated and altered zone, light green to beige colour (sericite) abundant hair-like qtz - carb stringers, minor sulphides, irregular patches of quartz + sulphides surrounded by green chlorite within alteration zone									
1	136.50	138.00	- grey to dark grey colour, massive, fine grained highly fractured and altered, irregular quartz veinlets	98277	136.50	138.00	1.50	5	132	65	2	2
1	138.00	139.50	- section sericitized and highly silicified, ssty at 45° CA, quartz flooding as a mesh to brecciated volcanics, fine pyrite locally	98278	138.00	139.50	1.50	34	121	75	2	36
1	139.50	141.00	- as above	98279	139.50	141.00	1.50	38	42	67	10	23
1	141.00	144.00	- section more chloritic (darker grey to black colour) abundant hair-like qtz-carb fractures, narrow section with abundant phenos of feldspars (small porphyry dykes ) grey quartz veinlets cutting across hair-like stringers									
1	144.00	145.50	- as above, locally abundant porphyry on fractures along with minor cpy	98280	144.00	145.50	1.50	5	156	82	2	2
1	145.50	147.00	- 50% small porphyry dyklets, contacts at 65° to 70° CA, minor epidote on certain fractures	98281	145.50	147.00	1.50	5	51	99	8	2
1	147.00	147.50	- highly silicified and altered									
0	147.50	168.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	147.50	168.00	V4, por - PORPHIRITIC ANDESITE fine grained, dark grey colour, rare subrounded to rounded feldspar phenos									
1	147.50	150.00	- section highly altered (silica, epidote, sericite, carbonate)									
1	150.00	153.00	- more massive, slightly fractured, numerous quartz stringers, rare quartz veinlets									
1	153.00	157.00	- massive, fine grained dark grey colour, few % rounded feldspar phenos, also grey quartz phenos (eyes ?) RHYOLITE									
1	157.00	159.00	- lightly brecciated with altered fractures (light green colour epidote ?) few irregular quartz - carbonate stringers and veinlets									
1	159.00	162.00	- core partly broken, fractures at low angle to CA									
1	162.00	165.00	- narrow zones more schistose and altered, these zones are oriented at 45° CA, section carbonated									
1	165.00	168.00	- becomes more altered toward 168m, more carbonated, numerous altered fractures, rare irregular cross-cutting grey to white quartz stringers END of HOLE									

End of Lithology and Assays ;

*ddh Mine Cooke*

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# ddh Mine Cooke

**Hole:** C-07-14

<b>Eastings:</b> 511120.0	<b>Northing:</b> 5511788.0	<b>Elevation:</b> 0.00
<b>AltNorthing:</b> 0.00	<b>AltEastings:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 225.0	<b>Dip:</b> -54.0	<b>Length:</b> 450.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> NQ	<b>Zone:</b> 18 NAD 83	<b>Contractor:</b> Forages Chibougamau
<b>Started:</b> 15/09/2007	<b>Finished:</b> 20/09/2007	<b>Logged By:</b> C. Larouche ing.
<b>Claim:</b> 86116	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b> Levy township, Chapais		
<b>Description:</b>		

**Deviations:**

Depth	Azimuth	AltAzimuth	Dip	Type	State
102.00	230.40	0.00	-46.20	Multi-shot	Active
300.00	231.10	0.00	-46.20	Multi-shot	Active
450.00	231.70	0.00	-45.90	Multi-shot	Active

216.00	233.10	0.00	-45.70	Multi-shot	Active
402.00	232.20	0.00	-45.70	Multi-shot	Active

End of Deviations ; 5 record(s) printed.





# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	30.00	OV - OVERBURDEN									
0	30.00	64.40	V6 - MAFIC VOLCANICS rarely porphyritic, dark grey to black colour, fairly massive, rare phenos, usually fractured									
1	30.00	39.00	- narrow zones epidotized, sericitized and slightly silicified, some fractures filled up with quartz are slightly graphitic									
1	39.00	45.00	- carbonated									
1	45.00	51.00	- slightly altered along fractures, locally slightly porphyritic (glomeroporphyritic)									
1	51.00	54.00	- narrow 30 cm dyke of gabbro, sharp contacts at 60° to 65° CA									
1	54.00	64.40	- locally partly broken core, fractures at low angle to CA									
0	64.40	70.30	3G - GABBRO medium grained, mafic crystals with a finer grained more altered matrix lighter colour									
0	70.30	117.00	V6, breccia - MAFIC VOLCANICS COARSELY BRECCIATED									
1	70.30	73.50	- locally highly altered and brecciated, epidote & sericite + silica and carbonate alteration with quartz flooding surrounding fragments of mafic volcanics, contacts usually sharp, minor carbonate on fractures									
1	73.50	78.00	- about 15% of section is altered along fractures locally at low									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			angle to CA									
1	78.00	81.00	- strongly altered, silicified with minor sulphides	98282 98283	78.00 79.50	79.50 81.00	1.50 1.50	5 5	68 62	47 26	2 3	2 8
1	81.00	84.00	- as above, abundant quartz - carbonate veinlets usually at low angle to CA									
1	84.00	91.50	- highly sericitized silicified, minor sulphides (light grey green colour) trace chalcopyrite, minor sphalerite (?)	98284 98285 98286 98287 98288	84.00 85.50 87.00 88.50 90.00	85.50 87.00 88.50 90.00 91.50	1.50 1.50 1.50 1.50 1.50	5 5 5 5 5	79 84 93 130 112	54 38 22 23 377	2 2 2 2 32	2 2 2 2 2
1	91.50	93.40	- more massive, still highly fractured, minor dyklets of reddish quartz (hematized) oriented ta 45° to 50° CA									
1	93.40	109.50	- mafic volcanics, no phenos, fine grained, massive, dark grey colour, fractures at low angle to CA, core usually partly broken, rare quartz stringers + veinlets									
1	109.50	117.00	- as above, highly fractured, quartz -carbonate stringers at low angle to CA									
0	117.00	123.30	3G - GABBRO medium grained, locally schistose with numerous small shears (gouge material) oriented at 30° to 35° CA									
0	123.30	141.00	V6 - MAFIC VOLCANICS fractured									
1	123.30	126.00	- 10 cm graphite shear oriented at 45° CA, abundant quartz - carbonate hair-like stringers									
1	126.00	141.00	- more massive, still abundant fractures usually 15° to 20° CA									
0	141.00	146.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	141.00	146.00	Fault Zone - FAULT ZONE core badly broken, gouge material, graphitic sections, fault at low angle to CA, rare quartz + rusty quartz veinlets at 10° CA									
0	146.00	163.00	V6 - MAFIC VOLCANICS fine grained dark grey green colour, usually fractured									
1	146.00	150.00	- fractured with abundant hair-like qtz-carb stringers									
1	150.00	153.00	- carbonated, micor breccia, locally with abundant hair-like qtz-carb stringers									
1	153.00	156.00	- as above									
1	156.00	159.00	- locally highly silicified grey colour still brecciated with quartz-carbonate stringers									
1	159.00	162.00	- as above, one patch 5 cm of brown sphalerite close to quartz vein, all cut by reddish hematitic quartz stringers									
1	162.00	163.00	- more alteration along fractures, locally layers 5 cm wide rich in small amygdules									
0	163.00	202.50	V6, breccia - BRECCIA AND ALTERED MAFIC VOLCANICS									
1	163.00	168.00	- core locally partly broken, zone 15 cm to 30 cm wide highly altered (carbonate-sericite-epidote-silica) with minor sulphides along quartz stringers cutting through the altered zones									
1	168.00	171.00	- less fractured and altered									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	171.00	174.00	- zone highly silicified and carbonated with 10% to 15% disseminated po also present along irregular stringers and large patches	98289	171.00	172.50	1.50	5	154	115	7	2
				98290	172.50	174.00	1.50	6	191	100	25	2
1	174.00	177.00	- zone rich in amygdules (?), brecciated and altered section with 30% po blebs over 15 cm									
1	177.00	180.00	- brecciated silicified epidotized and carbonated, po+quartz stringers	98291	177.00	178.50	1.50	5	88	36	3	2
				98292	178.50	180.00	1.50	5	111	29	2	2
1	180.00	183.00	- locally highly silicified									
1	183.00	195.00	- altered breccia, 30% of the rock is altered, carbonate + grey quartz as matrix to breccia, sulphides along fractures, quartz + sphalerite stringers associated to red brick hematitic quartz veinlets									
1	195.00	198.00	- brecciated and silicified									
1	198.00	201.00	- more massive, 15 cm wide section of quartz flooding									
1	201.00	202.50	- fractured, less altered									
0	202.50	237.30	V6 por - PORPHYRITIC ANDESITE usually carbonated, altered mafic volcanics locally porphyritic, fine grained <1% phenos of feldspar locally glomeroporphyritic texture									
1	202.50	203.00	- large patch 7 cm of massive pyrrhotite									
1	203.00	205.50	- brecciated with altered fractures, silica-carbonate + sulphides (mainly po)	98293	204.00	205.50	1.50	5	123	47	14	2

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	205.50	210.00	- highly brecciated and altered, silicified, slightly sericitized, pyrite blebs and locally stringers of po, trace sphalerite locally									
1	210.00	213.00	- core highly brecciated, fractures at low angle to CA, narrow zone at 25° CA with gouge material FAULT									
1	213.00	219.00	- less brecciated still numerous altered fractures with quartz flooding, minor sulphides									
1	219.00	222.00	- locally 1% to 2% large phenos 1 to 1.5 cm of feldspar, coarsely brecciated section, fine disseminated po, quartz + carb as matrix in brecciated areas, few irregular large patches of semi-massive po									
1	222.00	223.50	- as above, brecciated and altered "OBATOGAMAU" FORMATION									
1	223.50	225.00	- highly altered, silicified slightly sericitized and carbonated mainly along fractures to coarse breccia, quartz flooding + pyrrhotite disseminated and as stringers	98358	223.50	225.00	1.50	5	123	53	4	2
1	225.00	226.50	- as above	98359	225.00	226.50	1.50	5	69	49	7	2
1	226.50	228.00	- highly sericitized locally	98360	226.50	228.00	1.50	5	121	33	6	2
1	228.00	229.50	- 10% to 15% pyrrhotite stringers at low angle to CA	98361	228.00	229.50	1.50	5	254	75	4	2
1	229.50	231.00	- brecciated silicified sericitized carbonated and numerous patches of po (10% to 15%)	98362	229.50	231.00	1.50	5	93	63	4	2

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	231.00	237.30	- less brecciated more massive, numerous hair-like qtz-carb stringers, locally silicified with qtz flooding over 15 cm									
0	237.30	238.00	2D - DIORITE grey massive, fine to medium grained slightly chilled contacts at 80° CA									
0	238.00	244.00	V6, por - PORPHYRITIC ANDESITE fractured and slightly brecciated, OBATOGAMAU, 1% large phenos 1 cm, abundant hair-like qtz-carb fractures, minor po along certain fractures	98053	240.00	241.50	1.50	5	267	107	60	13
0	244.00	253.50	Carbonate - CARBONATE ZONE brownish colour, brecciated, numerous sections of massive sulphides MS									
1	244.00	244.50	- brecciated carbonate with quartz stringers, abundant hair-like fractures									
1	244.50	246.00	- carbonate with quartz eyes (?) rare sulphides and few hair-like qtz fractures	98296	244.50	246.00	1.50	5	88	66	2	14
1	246.00	247.50	- section of porphyritic lavas (OBATOGAMA) highly carbonated									
1	247.50	249.00	- highly brecciated zone, alteration along fractures injected by quartz - carbonate and about 10% pyrrhotite	98297	247.50	249.00	1.50	5	140	100	11	2
1	249.00	250.50	- highly brecciated, slightly schistose at 40° CA fine disseminated sulphides	98294	249.00	250.50	1.50	5	154	95	3	3
1	250.50	251.00	- as above	98295	250.50	252.00	1.50	6	357	210	2	4

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	251.00	251.30	- MS massive sulphide, pyrrhotite 90% granular pyrrhotite with very fine black crystals (chert ?)									
1	251.30	253.50	- massive carbonate horizon (?) fine disseminated pyrite, rare pyrrhotite stringers	98298	252.00	253.50	1.50	5	58	186	9	3
0	253.50	256.30	MS, py-po - MASSIVE SULPHIDE pyrrhotite and pyrite									
1	253.50	254.50	- finely granular pyrrhotite with minor larger pyrite cubes, inclusions of grey chert and massive carbonate with 5% disseminated sulphides (po)	98299	253.50	255.00	1.50	17	492	664	4	29
1	254.50	255.60	- massive pyrite, brecciated and cemented by fine po, also bands at 45° CA at 70° CA of massive po with chert and carbonate fragments cutting across massive pyrite	98300	255.00	256.50	1.50	16	281	687	6	36
1	255.60	256.30	- cherty section with semi-massive section of pyrite cubed cemented by pyrrhotite matrix									
0	256.30	258.50	V6, carb - HIGHLY CARBONATED MAFIC VOLCANICS fine grained grey colour, fine disseminated po, weak schistosity at 40° CA	98351 98352	256.50 258.00	258.00 259.50	1.50 1.50	5 5	66 394	81 577	4 777	2 4
0	258.50	264.40	S6 - CHERTY SECTION with carbonate and semi massive sulphide									
1	258.50	260.00	- brecciated with fine disseminated po, also stringers of massive po always finely crystalline, trace cpy, much	98353	259.50	261.00	1.50	11	324	572	161	15

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			black and grey chert fragments									
1	260.00	262.50	- bands 30 cm wide of massive po + py cubes (about 30%), section brecciated with 20% po as matrix	98354	261.00	262.50	1.50	5	360	523	8	2
1	262.50	264.40	- semi-massive granular po with rare py crystals, bick rounded chert fragments	98355 98356	262.50 264.00	264.00 265.50	1.50 1.50	5 6	638 258	558 986	2 13	3 2
0	264.40	267.50	S4, graphitic - GRAPHITIC SHALE (ARGILLITES) brecciated with pyrrhotite stringers, also sections of tuffaceous sediments slightly graphitic and bands of semi-massive po									
1	264.40	267.00	- layering at 15° to 25° CA, mostly grey siliceous matrix with 15% disseminated py and few stringers like massive po oriented usually at 20° CA	98357	265.50	267.00	1.50	5	256	938	9	2
1	267.00	267.50	- as above, about 40% po, mostly siliceous matrix									
0	267.50	273.00	V6 - MAFIC VOLCANICS massive fine grained, dark grey green colour, slightly fractured, rare quartz - carbonate hair-like fractures									
0	273.00	276.00	MS, Po - MASSIVE SULPHIDE PYRRHOTITE									
1	273.00	274.50	- siliceous material with abundant fine disseminated po which is also present as layers	98363	273.00	274.50	1.50	5	143	52	3	2
1	274.50	276.00	- as above, locally 40% fine disseminated pyrrhotite within siliceous matrix	98364	274.50	276.00	1.50	5	125	98	5	2
0	276.00	280.30	V6									



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	280.30	297.50	- MAFIC VOLCANICS massive, fine grained, carbonated, minor disseminated po, rare quartz-carbonate stringers									
			3G									
			- GABBRO massive, medium grained gabbro, mafic crystals within altered finer grained more felsic matrix									
1	280.30	288.00	- few fractures with grey quartz veinlets usually at 45° to 60° CA, few altered areas with quartz flooding									
1	288.00	289.50	- looks like pyroxenite, few quartz + po stringers	98367	288.00	289.50	1.50	5	161	27	2	2
1	289.50	291.00	- as above	98366	289.50	291.00	1.50	5	163	27	2	2
1	291.00	297.50	- fairly massive, numerous quartz veins + veinlets, grey to pinkish grey colour									
0	297.50	302.50	V6									
			- MAFIC VOLCANICS massive, fine grained, dark grey green colour, slightly fractured and brecciated with minor quartz flooding									
0	302.50	315.00	V6, breccia									
			- BRECCIATED MAFIC VOLCANICS with 2% to 10% pyrrhotite matrix									
1	302.50	310.50	- few stringers of po locally at low angle to CA									
1	310.50	312.00	- stringers + patches of massive po	98365	310.50	312.00	1.50	5	68	64	2	2
1	312.00	315.00	- about 2% po stringers along with numerous hair-like quartz - carbonate stringers									
0	315.00	323.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	315.00	323.00	MS, Po - MASSIVE SULPHIDE, PYRRHOTITE zone with slightly graphitic argillites (black) highly brecciated with up to 70% po matrix									
1	315.00	316.50	- about 25% po as mesh-like texture around black fragments	98368	315.00	316.50	1.50	5	600	710	33	4
1	316.50	318.00	- as above, 40% po with trace cpy	98369	316.50	318.00	1.50	5	663	19	56	15
1	318.00	319.50	- about 20% sulphide	98370	318.00	319.50	1.50	8	486	17	155	2
1	319.50	321.00	- as above	98371	319.50	321.00	1.50	8	354	44	302	4
1	321.00	323.00	- up to 70% massive pyrrhotite locally	98389	321.00	322.50	1.50	5	708	748	46	10
0	323.00	325.00	S - TUFFACEOUS SEDIMENTS more siliceous sections with fine disseminated po also present along fractures									
0	325.00	327.40	V6 - MAFIC VOLCANICS dark grey green colour, massive, fine grained									
1	325.00	327.40	- few hair-like qtz-carb stringers, one dyklet 5 cm wide of Tonalite at 70° CA, numerous hair-like quartzcarbonate fractures	98495	327.00	328.50	1.50	5	94	174	35	2
0	327.40	329.60	1T - TONALITE locally looks like quartz- feldspar porphyry, dyke, brownish colour, locally glassy, locally highly porphyritic, fractured with minor pyrite also fine disseminated sulphide	98496	328.50	330.00	1.50	5	190	204	34	2
0	329.60	373.50	V6, breccia - BRECCIATED MAFIC VOLCANICS coarsely brecciated with pyrrhotite matrix, intermediate volcanics locally (?), some places more tuffaceous looking with									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			feldspar crystals.									
1	329.60	330.00	- gouge material over 7cm, Fault Zone oriented at 40° CA									
1	330.00	334.50	- core partly broken, highly brecciated andesite (?) with graphitic fractures locally filled up by py-po	98497	330.00	331.50	1.50	5	215	116	266	2
1	334.50	336.00	- more cherty locally, graphitic fractures parallel to CA	98390	334.50	336.00	1.50	5	327	831	54	15
1	336.00	337.50	- as above, numerous stringers of massive po parallel to CA	98391	336.00	337.50	1.50	5	698	1645	56	15
1	337.50	339.00	- graphitic shear "curved" at low angle to CA, much graphite on fractures locally									
1	339.00	343.50	- siliceous tuffaceous sediments highly brecciated and injected by 15% to 20% po stringers, narrow 5 cm fault zone with black gouge material oriented at 45° CA									
1	343.50	351.00	- slightly graphitic locally, breccia with irregular pyrrhotite matrix, 15% to 20% po									
1	351.00	352.50	- narrow section more siliceous with fine disseminated sulphide, brecciated with po stringers up to 1 cm wide	98392	351.00	352.50	1.50	5	431	1110	25	11
1	352.50	354.00	- fine grained volcanics, andesite, still brecciated less sulphides about 1%, mainly along fractures	98393	352.50	354.00	1.50	5	196	145	12	6
1	354.00	363.00	- massive, dark grey to black locally carbonated andesite, numerous hair-like fractures filled up with quartz + po +									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			carbonate									
1	363.00	373.50	- as above, some sections are highly carbonated, more brecciated with numerous po stringers									
0	373.50	377.00	MS, Po	98386	373.50	375.00	1.50	5	215	218	8	3
			- MASSIVE SULPHIDES PYRRHOTITE,	98387	375.00	376.50	1.50	5	1490	144	11	6
			zone of massive pyrrhotite with siliceous matrix, no pyrite crystals, massive po with weak banding at 70° CA, few rounded block of cherty sediments	98388	376.50	378.00	1.50	5	393	294	7	2
0	377.00	381.00	V6									
			- MAFIC VOLCANICS dark grey green colour, fine grained, carbonated locally									
1	377.00	378.00	- first half of section fractures filled with po, fine disseminated sulphides 3% to 5% throughout, second half of section numerous quartz veins with 5% po, veins oriented at 80° CA									
1	378.00	381.00	- mafic volcanics with abundant carbonate crystals, becomes more siliceous looking (cherty) downward,									
0	381.00	383.80	MS Po	98381	381.00	382.50	1.50	5	424	702	5	7
			- MASSIVE SULPHIDE, PYRRHOTITE siliceous section with 40% to 80% fine pyrrhotite locally rare pyrite porphyroblasts and also rare pyrite on fractures, layering at 80° CA	98382	382.50	384.00	1.50	5	624	2030	2	5
0	383.80	384.00	S4, graphitic									
			- GRAPHITIC ARGILLITES black colour, fine grained, minor pyrite nodules (?) and also irregular py lenses									
0	384.00	388.60	MS Pyrite									
			- MASSIVE SULPHIDE PYRITE									
1	384.00	385.10										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	384.00	385.10	- about 20% massive pyrite layers at 46° to 60° CA, silica - carbonate matrix with about 3% disseminated sulphides (impure limestone recrystallized into marble ) locally stringers (?) of pyrrhotite with fine disseminated chalcopyrite	98383	384.00	385.50	1.50	5	189	890	9	65
1	385.10	388.60	- massive pyrite with about 10% cherty blocks and layers, pyrite is brecciated with minor graphitic fractures, po-trace cpy- rusty carbonate - silica and possible sphalerite on fractures	98384 98385	385.50 387.00	387.00 388.50	1.50 1.50	5 5	138 199	225 91	16 25	80 76
0	388.60	393.20	Marble - MARBLE light grey to white in colour fine to medium grained, thinly bedded 1cm, with bedding at 20° to 30° CA, variable									
1	388.60	390.20	- fairly massive, 2% to 4% fine disseminated sulphides									
1	390.20	391.40	- few layers and blocks of black chert at about 30° to 35° CA, fine disseminated sulphides									
1	391.40	393.20	- more massive grey white colour, impure limestone (marble) trace sulphide, bedding at 15° to 40° CA									
0	393.20	394.40	Marble, S4, graphitic - MARBLE WITH GRAPHITIC ARGILLITES layers, locally nodules of massive pyrite are present within graphitic argillites									
0	394.40	397.20	MS Pyrite - MASSIVE SULPHIDE PYRITE, massive pyrite as elongated nodules (?) and layers about 70% to 75% sulphides with grey chert, marble and some graphitic argillites, strong foliation at 40° to 45° CA									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	394.40	395.00	- upper contact at 35° CA									
1	395.00	396.00	- massive pyrite is brecciated and locally injected by po, also rare po stringers 1 cm wide									
1	396.00	397.20	- pyrite brecciated with fractures filled with rusty carbonates, silica, po + trace cpy and possible sphalerite beside some graphite									
0	397.20	402.60	S4, graphitic - GRAPHITIC ARGILLITES dark grey to black in colour, irregular bedding from 40° to parallel to CA									
1	397.20	399.00	- about 19% irregular layers of pyrite, minor po and grey chert (?)									
1	399.00	402.60	- bedding at low angle to CA and locally parallel to CA, minor pyrite + grey chert, graphitic argillites are brecciated with abundant hair-like qtz-carb stringers	98372	402.00	403.50	1.50	16	174	65	12	62
0	402.60	405.20	MS Pyrite - MASSIVE SULPHIDES PYRITE, massive pyrite with locally graphitic argillites beds, pyrite still brecciated with fractures rusty and filled up with silica-carbonate-trace cpy, lower contact of massive pyrite is oriented at 50°CA	98373 98374	403.50 405.00	405.00 406.50	1.50 1.50	27 5	187 135	128 35	20 3	79 29
0	405.20	416.40	Marble - MARBLE grey to white impure limestone (carbonate + silica), medium grained, 1% to 3% fine disseminated sulphides									
1	405.20	408.00	- coarse grained locally pyrite beds 3 cm wide, bedding	98375	406.50	408.00	1.50	5	68	11	2	4

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	Sample Num	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			(layering) oriented at 60° to 80° CA									
1	408.00	411.00	- fairly massive, irregular layering, folding is evident									
1	411.00	414.00	- as above									
1	414.00	416.40	- gradually becoming white colour, medium grained, fine disseminated pyrite locally in large blwbs 2 cm long, bedding varies from 5° to 45° CA	98378 98377	414.00 415.50	415.50 417.00	1.50 1.50	5 5	9 343	19 37	7 2	4 8
0	416.40	418.20	MS Po - MASSIVE SULPHIDE PYRRHOTITE massive pyrrhotite with larger pyrite euhedral to subhedral crystals									
1	416.40	417.20	- upper contact at 45° CA, semi massive sulphides 30%, stringers of massive po and also massive pyrite within a fine to medium grained carbonate + silica matrix	98376	417.00	418.50	1.50	7	1340	62	2	23
1	417.20	418.20	- massive pyrrhotite surrounding larger crystals of pyrite, no inclusions of po within pyrite crystals, locally large blebs 0.5 cm of massive cpy within po, lower contact sharp at 50° CA									
0	418.20	431.70	Marble - MARBLE grey white colour, medium grained layering at 40° CA to 45° CA									
1	418.20	421.50	- fairly massive with fine disseminated po locally mesh like texture of po over 1.5 m with trace chalcopyrite	98379 98380	418.50 420.00	420.00 421.50	1.50 1.50	5 5	7 79	7 50	2 2	2 3
1	421.50	423.00	- still locally 10% po finely disseminated and along irregular									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			stringers									
1	423.00	426.00	- massive, bedding at 30° to 40° CA, carbonate + silica									
1	426.00	429.00	- more fractured with minor broken beds (?) of argillites + rare stringers of po									
1	429.00	431.70	- lighter colour, recrystallized. Fractures rich in black crystals (amphiboles)	98498	430.50	432.00	1.50	5	8	8	5	2
0	431.70	433.70	FD - FELSIC DYKE fine grained to locally porphyritic felsic dyke, grey to pinkish grey colour, contacts at 45° CA, minor amphiboles, trace sulphides	98499	432.00	433.50	1.50	5	4	9	9	2
0	433.70	438.40	Carbonate Horizon - CARBONATE RICH HORIZON with locally cherty sections, gradual contacts, irregular bedding locally at low angle to CA, irregular stringers and large patches 5 cm of massive pyrrhotite, po appears as fine grains as a matrix to silica and carbonate									
0	438.40	439.80	1QFP - QUARTZ FELDSPAR PORPHYRY grey white colour, quartz rich (tonalite ?) contacts at 45° to 50° CA slightly chilled, minor large inclusions of carbonate material (10 cm) fine disseminated sulphides 2%.	98051	439.00	440.50	1.50	5	436	359	643	10
0	439.80	450.00	Marble - MARBLE impure limestone recrystallized, grey colour to locally creamy colour, bedding from 45° to 80°, fine disseminated sulphides, locally narrow stringers END of HOLE	98500 98052	440.50 442.00	442.00 443.50	1.50 1.50	5 5	62 8	26 25	4 7	2 2

End of Lithology and Assays ;





# ddh Mine Cooke

**Hole:** C-07-15

<b>Easting:</b> 511199.0	<b>Northing:</b> 5511703.0	<b>Elevation:</b> 0.00
<b>AltNorthing:</b> 0.00	<b>AltEasting:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 225.0	<b>Dip:</b> -50.0	<b>Length:</b> 438.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> NQ	<b>Zone:</b> 18 NAD 83	<b>Contractor:</b> Forages Chibougamau
<b>Started:</b> 21/09/2007	<b>Finished:</b> 29/09/2007	<b>Logged By:</b> C. Larouche ing.
<b>Claim:</b> 86116	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b> Levy township, Chapais		
<b>Description:</b>		

**Deviations:**

Depth	Azimuth	AltAzimuth	Dip	Type	State
100.00	235.40	0.00	-48.60	Multi-shot	Active
300.00	238.00	0.00	-48.60	Multi-shot	Active
438.00	237.20	0.00	-48.10	Multi-shot	Active

201.00	235.30	0.00	-48.60	Multi-shot	Active
402.00	237.60	0.00	-48.20	Multi-shot	Active

End of Deviations ; 5 record(s) printed.

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	14.50	OV - OVERBURDEN									
0	14.50	19.00	2D - DIORITE grey green colour, fine to medium grained fairly massive, core partly broken, 30 cm brownish quartz vein at 45° CA									
0	19.00	22.60	V6 - MAFIC VOLCANICS fine grained, massive, dark grey green colour, some sections slightly coarser grained, rare amygdules, locally brecciated chloritized and silicified with few narrow stringers of massive pyrrhotite									
0	22.60	37.00	3G - GABBRO dark grey colour, medium grained, mafic crystals (black) within an altered lighter colour matrix finer grained									
1	22.60	24.00	- finer grained, chilled margins									
1	24.00	25.50	- brecciated carbonated and silicified few fractures at low angle to CA, core usually partly broken									
1	25.50	26.00	- zone silicified with one grey quartz vein 3 cm wide oriented at 45° CA, margins of semi-massive po with quartz and carbonate, also disseminated po within grey quartz									
1	26.00	27.50	- medium grained fairly massive, numerous fractures with minor carbonates									
1	27.50	31.50	- medium to coarse grained, core locally partly broken, fractured at low angle to CA									
1	31.50	34.50										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	31.50	34.50	- section is fractured, brecciated, carbonated and epidotized locally with irregular veins 5 cm to 30 cm of pinkish quartz, rare sulphides along fractures									
1	34.50	36.00	- medium grained fairly massive slightly carbonated									
1	36.00	37.00	- finer grained chilled margin									
0	37.00	64.00	V4-V6, por - MAFIC TO INTERMEDIATE VOLCANICS SLIGHTLY PORPHYRITIC									
1	37.00	43.00	- brecciated with much alteration in patches and along fractures, sericite, epidote, carbonate, silica, few irregular quartz veinlets									
1	43.00	46.50	- massive, very weak alteration mainly along fractures, about 1% phenos <1cm, rare chloritic fractures at low angle to CA									
1	46.50	51.00	- section fractured and highly altered as before, locally micro breccia with abundant hair-like quartz - carbonate fractures, rare pinkish "pegmatitic" veins 7 cm wide									
1	51.00	52.50	- altered, fractured, minor sulphides po-py + trace cpy within strongly altered zones of quartz-carbonate-epidote and sericite	98468	51.00	52.50	1.50	5	70	32	4	7
1	52.50	54.00	- as above	98469	52.50	54.00	1.50	5	84	13	2	2
1	54.00	55.50	- as above	98470	54.00	55.50	1.50	5	105	22	4	2
1	55.50	56.50	- still highly altered									
1	56.50	60.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	56.50	60.00	- massive, fine grained mafic volcanics with <1% rounded phenos < 1cm of feldspar, chloritic fractures at low angle to CA, core partly broken in places									
1	60.00	64.00	- as above, slightly fractured and carbonated									
0	64.00	70.60	3G - GABBRO as before, medium grained with slightly chilled margins, rare fractures at low angle to CA, narrow section brecciated with quartz - carbonate on fractures, trace po									
0	70.60	81.00	V6, por - PORPHYRITIC MAFIC VOLCANICS mafic volcanics are slightly porphyritic as before									
1	70.60	74.80	- slightly fractured, rare fractures parallel to CA with minor qtz-chlorite									
1	74.80	76.00	- mafic volcanics slightly porphyritic, chloritic fractures									
1	76.00	81.00	- contact zone with gabbro, section up to 1.5m of mafic volcanics alternating with medium grained gabbro, contacts are usually sharp oriented at 65° to 75° CA, gabbro is also slightly porphyritic locally									
0	81.00	97.50	3G - GABBRO medium grained, grey green colour, mafic crystals within more altered and finer grained matrix									
1	81.00	82.50	- fairly massive, rare rounded phenos of feldspar									
1	82.50	86.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	82.50	86.00	- abundant section of massive intermediate to mafic volcanics, contacts are irregular but always sharp									
1	86.00	90.00	- massive, medium grained slightly fractured with quartz - carbonate stringers, rare grey quartz + carbonate with trace sulphides, rosy quartz vein 4 cm wide at 60° CA in one place									
1	90.00	94.50	- fairly massive, fractured, rare phenos, slightly silicified and carbonated									
1	94.50	97.50	- gabbro becomes finer grained									
0	97.50	209.00	V6-V4 - MAFIC TO INTERMEDIATE VOLCANICS massive, grey green colour, no phenos									
1	97.50	115.00	- core usually badly broken, chloritic fractures parallel to CA, few Qtz-carb-trace sulphide stringers also parallel to CA, rare brecciated pinkish quartz vein 10 cm wide									
1	115.00	119.00	- badly fractured, also highly altered, light greenish grey colour, rusty fractures									
1	119.00	121.00	- FAULT zone + fault breccia with locally gouge material oriented at low angle to CA									
1	121.00	126.00	- highly altered with graphitic fractures parallel to CA									
1	126.00	127.50	- as above, trace sulphides	98466	126.00	127.50	1.50	5	82	524	41	2
1	127.50	129.00	- as above, minor rusty fractures	98467	127.50	129.00	1.50	5	64	841	12	2
1	129.00	129.20										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	129.00	129.20	- graphitic fracture parallel to CA									
1	129.20	133.00	- finer grained, zones silicified and altered at 60° to 70° CA cut by chloritic (graphitic) stringers at low angle to CA, carbonate on fractures, core locally badly broken									
1	133.00	137.00	- fairly massive, locally silicified over 15 cm with irregular quartz flooding									
1	137.00	146.00	- section is usually highly altered (sericite, epidote, quartz - carbonate, minor sulphides) grey to black quartz vein 15 cm wide at 75° CA with trace sulphide and carbonated fractures									
1	146.00	149.00	- more massive, still fractured, less altered, locally abundant quartz - carbonate hair-like stringers									
1	149.00	153.00	- fine grained, dark grey to black colour, few altered and silicified zones at 15° to 20° CA									
1	153.00	154.50	- highly altered, greenish grey colour (sericite, epidote, silica, carbonate, minor pyrite) narrow graphitic fractures, irregular quartz veins	98460	153.00	154.50	1.50	5	81	63	25	2
1	154.50	156.00	- as above	98461	154.50	156.00	1.50	5	74	44	6	5
1	156.00	163.50	- fine grained volcanics altered by bands 30 cm wide, locally vein of red quartz + graphite at 20° CA, 5 cm wide									
1	163.50	165.00	- highly silicified locally with	98465	163.50	165.00	1.50	5	122	48	10	2

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			sulphide along fractures									
1	165.00	166.50	- zone 30cm wide, silicified with semi-massive po + minor pyrite, zone at 75° CA, looks like a bed of sulphide (with chert ?)	98462	165.00	166.50	1.50	10	294	338	14	2
1	166.50	168.00	- highly altered, sulphide along fractures	98463	166.50	168.00	1.50	5	107	64	2	2
1	168.00	169.30	- altered with few po-py-cpy stringers at 15° to 20° CA, other fractures with massive po	98464	168.00	169.50	1.50	5	655	539	27	2
1	169.30	181.00	- narrow section of medium grained gabbro, volcanics are fractured altered and silicified along fractures, minor sulphides									
1	181.00	183.00	- gabbro fractured and silicified									
1	183.00	184.50	- silicified zone with semi-massive pyrrhotite as cement to micro breccia	98303	183.00	184.50	1.50	7	407	1265	21	5
1	184.50	186.00	- breccia, epidotized fine grained matrix cut by brownish quartz + minor sulphide	98304	184.50	186.00	1.50	5	316	398	17	2
1	186.00	189.10	- less brecciated, slightly altered locally	98305	189.00	190.50	1.50	6	197	55	6	2
1	189.10	190.50	- brecciated and altered									
1	190.50	192.00	- as above	98451	190.50	192.00	1.50	5	102	2850	59	2
1	192.00	193.50	- locally gabbroic, fractured at low angle to CA									
1	193.50	195.00	- highly silicified, quartz-carbonate minor sulphide, section cut by one vein 1 cm wide of semi-massive sphalerite,	98452	193.50	195.00	1.50	5	99	2780	56	2



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			vein oriented at 15° CA									
1	195.00	196.50	- highly brecciated and altered	98453	195.00	195.60	0.60	5	72	44	12	2
1	196.50	198.00	- more massive, narrow section 5-7cm highly silicified + 10% to 15% pyrrhotite disseminated and as stringers	98454	196.50	198.00	1.50	5	91	368	13	3
1	198.00	199.50	- as above	98455	198.00	199.50	1.50	5	103	818	14	5
1	199.50	201.00	- as above	98456	199.50	201.00	1.50	5	90	630	20	3
1	201.00	202.50	- as above	98457	201.00	202.50	1.50	5	142	598	40	5
1	202.50	204.00	- as above	98458	202.50	204.00	1.50	5	155	84	11	2
1	204.00	205.50	- as above, locally abundant silvery grey mineral on fractures (?)	98459	204.00	205.50	1.50	5	131	122	7	2
1	205.50	206.00	- more massive, fine to medium grained, carbonated, few altered fractures at 20° to 45° CA									
1	206.00	209.00	- altered volcanics, lower half is highly brecciated and quartz flooded									
0	209.00	234.00	3G - GABBRO grey green colour, massive, fine to medium grained									
1	209.00	210.00	- slightly chilled upper contact at 45° CA									
1	210.00	214.50	- slightly fractured, quartz-carbonate+locally minor po-cpy stringers and veinlets									
1	214.50	219.00	- few zones of shearing filled with graphite and pyrrhotite, zones oriented at 15° to 3° CA									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	219.00	222.00	- core partly broken, fractured at low angle to CA, narrow stringers of hematized quartz at 15° CA, one vein 20 cm wide at 35° CA of reddish granite (?), gabbro is slightly carbonated									
1	222.00	231.00	- mainly gabbro, few inclusions of mafic volcanics and possibly fine to medium grained diorite									
1	231.00	234.00	- reddish feldspar porphyry dyklet parallel to CA									
0	234.00	253.50	2D - DIORITE grey to grey green colour, fine to medium grained , massive									
1	234.00	238.50	- numerous chloritic fractures of irregular orientation filled up with quartz + pyrite also pyrrhotite and trace chalcopyrite, few slightly graphitic fractures at low angle to CA									
1	238.50	240.00	- fractured, fine to medium grained diorite, one dyke 40 cm wide of "felsite" with 2% disseminated py-po-cpy +silvery metal (?), silvery metal also present on fractures, dyke oriented at 60° CA									
1	240.00	241.50	- highly fractured, one mineralized dyke 10 cm wide with py-po-cpy + silvery metal.									
1	241.50	243.00	- few dyklets as before but core usually more massive still lightly fractured									
1	243.00	246.00	- one dyklet with "comb-layering", dyklet is 10 cm wide	98450	245.70	249.00	3.30	5	60	77	20	2

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			and mineralized, oriented at 50°CA									
1	246.00	247.50	- fractured and slightly sheared, much carbonate on fractures									
1	247.50	249.00	- section 60 cm wide of grey tonalite and pinkish felsic dyke which is fractured with minor sulphide along fractures									
1	249.00	250.50	- as above	98301	249.00	250.50	1.50	5	93	37	3	2
1	250.50	252.00	- fractured at low angle to CA									
1	252.00	253.50	- chloritic fractures parallel to CA with pyrite sheets and silvery metal	98302	252.00	253.50	1.50	5	103	289	58	2
0	253.50	262.00	3G - GABBRO as before									
1	253.50	254.00	- gabbro, mafic crystals within finer grained altered matrix									
1	254.00	262.00	- locally fractured, irregular blocks of felsic material (broken up dyket ?), some fractures with sulphides									
0	262.00	270.30	V6, Breccia - MAFIC VOLCANICS ALTERED AND HIGHLY BRECCIATED with more siliceous matrix, mineralized									
1	262.00	262.50	- abundant sulphide stringers at low angle to CA, py-po									
1	262.50	264.00	- looks like pillow breccia with a matrix more altered lighter colour, more siliceous and mineralized with disseminated and locally large blebs of pyrrhotite, trace chalcopyrite	98419	262.50	264.00	1.50	5	149	45	6	2

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	264.00	265.50	- as above	98420	264.00	265.50	1.50	5	164	52	13	5
1	265.50	267.00	- felsic dyke brecciated with fractures filled up with quartz + sulphides	98421	265.50	267.00	1.50	5	46	47	5	2
1	267.00	268.50	- few narrow felsic dyklets within breccia	98422	267.00	268.50	1.50	5	73	59	10	2
1	268.50	270.30	- highly brecciated, big patches of po-py + trace cpy, some chloritic fractures parallel to CA, grey quartz + hematized qtz stringers oriented at 10° CA, qtz strngs contain sulphides	98423 98424	268.50 270.00	270.00 271.50	1.50 1.50	5 5	106 77	855 97	241 51	2 3
0	270.30	273.50	3G - GABBRO medium grained, altered along fractures, quartz flooding, minor sulphides	98425 98426	271.50 273.00	273.00 274.50	1.50 1.50	5 5	79 72	46 48	3 2	2 2
0	273.50	289.50	V6, Breccia - MAFIC VOLCANICS BRECCIATED locally porphyritic, highly brecciated (coarsely brecciated)									
1	273.50	277.80	- sericite-epidote - quartz-carbonate as matrix to coarse breccia, locally 2 cm wide patches of massive pyrrhotite also present along qtz stringers	98427 98428 98429	274.50 276.00 277.50	276.00 277.50 279.00	1.50 1.50 1.50	5 8 5	123 104 79	51 41 43	3 3 3	2 2 2
1	277.80	282.00	- locally semi-massive po, rare rounded feldspar phenos, numerous alteration zones at low angle to CA	98430 98431	279.00 280.50	280.50 282.00	1.50 1.50	5 5	109 122	60 78	2 3	2 2
1	282.00	286.00	- 10% po stringers within altered matrix to breccia	98432 98433 98434	282.00 283.50 285.00	283.50 285.00 286.50	1.50 1.50 1.50	5 5 5	119 147 130	61 80 77	5 16 19	2 2 2
1	286.00	289.50	- still micor breccia with abundant qtz-carb hair-like stringers within zone coarsely brecciated and altered, grey	98435 98436	286.50 288.00	288.00 289.50	1.50 1.50	5 5	118 146	219 99	133 8	2 2

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			quartz + pyrrhotite flooding									
0	289.50	292.50	3G	98437	289.50	291.00	1.50	5	72	68	2	2
			- GABBRO fine to medium grained, dark grey green colour	98438	291.00	292.50	1.50	5	69	62	2	2
0	292.50	300.00	V6, por	98439	292.50	294.00	1.50	5	131	58	2	2
			- MAFIC VOLCANICS SLIGHTLY PORPHYRITIC locally minor diorite, both slightly fractured, few qtz + minor po zones	98440	294.00	295.50	1.50	5	141	46	2	2
				98441	295.50	297.00	1.50	5	78	56	2	2
				98407	297.00	298.50	1.50	1	71	60	4	2
				98394	298.50	300.00	1.50	3	180	48	10	2
0	300.00	308.00	3G	98442	300.00	301.50	1.50	5	50	55	2	3
			- GABBRO massive, medium grained, locally slightly porphyritic	98443	301.50	303.00	1.50	5	49	53	2	2
			(glomeroporphyritic), carbonate on fractures, also minor po on fractures	98444	303.00	304.50	1.50	5	58	49	2	2
				98445	304.50	306.00	1.50	5	44	50	3	2
				98396	306.00	307.50	1.50	2	56	60	4	6
				98395	307.50	309.00	1.50	4	345	244	5	2
0	308.00	313.90	MS po									
			- MASSIVE SULPHIDE PYRRHOTITE zone of cherty sediments (?) with massive po layers at 45° CA (roughly)									
1	308.00	309.00										
			- 50% massive fine grained Po layers, also minor py along fractures, pyrite locally disseminated									
1	309.00	311.40		98397	309.00	310.50	1.50	3	481	2220	3	3
			- massive po, some narrow sections parallel to core of cherty sediments and carbonate sediments flooded by pyrrhotite	98398	310.50	312.00	1.50	3	310	309	3	6
1	311.40	312.50		98399	312.00	313.50	1.50	3	913	886	6	9
			- cherty and carbonated sediments									
1	312.50	313.90		98400	313.50	315.00	1.50	3	149	160	6	2
			- massive, fine grained po with cherty fragments									
0	313.90	316.30	S	98401	315.00	316.50	1.50	1	49	102	4	3
			- TUFFACEOUS SEDIMENTS locally chloritic, usually cherty, schistosity and bedding at 35° to 40° CA, stringers of po									
0	316.30	336.00	V6, Amphibolite									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			- MAFIC VOLCANICS dark grey to black colour, fine grained AMPHIBOLITE (?), few gabbro dyklets									
1	316.30	324.00	- looks fine grained, numerous hair-like quartz-carbonate fractures	98402	316.50	318.00	1.50	1	50	31	2	2
1	324.00	330.00	- as above, some quartz flooding + minor po along fractures locally at low angle to CA									
1	330.00	336.00	- massive, narrow silicified sections 30 cm wide, few qtz-carb veinlets and stringers, no visible phenos	98403	334.50	336.00	1.50	1	151	962	245	14
0	336.00	346.00	Fault, Breccia	98404	336.00	337.50	1.50	8	735	5670	944	20
			- FAULT ZONE AND BRECCIA highly sheared and brecciated zone, locally slightly graphitic, usually injected by quartz-pyrrhotite flooding, also stringers of massive pyrite at low angle to CA, core locally badly broken, chloritic fractures, gouge in places	98405	337.50	339.00	1.50	6	434	66	36	2
				98406	339.00	340.50	1.50	4	151	53	32	2
				98408	340.50	342.00	1.50	5	176	71	9	2
				98409	342.00	343.50	1.50	5	122	267	16	2
				98410	343.50	345.00	1.50	5	141	55	16	2
				98411	345.00	346.50	1.50	5	146	52	12	6
0	346.00	348.00	Breccia	98412	346.50	348.00	1.50	5	193	55	10	5
			- BRECCIA highly brecciated volcanics, abundant hair-like fractures with po									
0	348.00	376.20	V6, por - PORPHYRITIC ANDESITE massive, dark grey to black (amphibolite ?)									
1	348.00	351.00	- minor sulphide stringers	98413	348.00	349.50	1.50	5	97	47	3	3
				98446	349.50	351.00	1.50	5	134	54	2	2
1	351.00	354.00	- still few stringers, small phenos of feldspar throughout < 1% by volume	98447	351.00	352.50	1.50	5	118	43	8	2
				98448	352.50	354.00	1.50	5	128	53	2	2
1	354.00	355.50	- numerous dyklets of reddish quartz material with fine disseminated sulphides	98449	354.00	355.50	1.50	5	132	63	14	3
1	355.50	364.50										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	355.50	364.50	- fairly massive, rare phenos of feldspar disseminated throughout, micro fractures with hair-like qtz-carb stringers, carbonate on fractures									
1	364.50	376.20	- usually massive but abundant qtz-carb hair-like fractures, <1% phenos of feldspar throughout locally glomeroporphyritic texture									
0	376.20	378.50	FD - FELSIC DYKE fine py-po disseminated, contacts at 70° CA	98417	378.00	379.50	1.50	5	64	136	11	3
0	378.50	411.30	V6, por - PORPHYRITIC ANDESITE as before									
1	378.50	384.50	- fairly massive, silicified and altered fractures with minor sulphides, rare black quartz veinlets at 45° CA with po margins	98418	379.50	381.00	1.50	5	212	38	7	2
1	384.50	386.20	- fairly massive									
1	386.20	389.00	- numerous sections 30 cm wide of quartz veinlets oriented at 80° CA, veins are of black grey to brownish colour fractured with fine sulphide along fractures, sulphide also disseminated throughout	98414	387.00	388.50	1.50	5	227	29	4	3
1	389.00	393.00	- brecciated with abundant hair-like quartz - carbonate stringers									
1	393.00	396.00	- brecciated with quartz + pyrrhotite flooding along fractures locally at low angle to CA	98415 98416	393.00 394.50	394.50 396.00	1.50 1.50	10 5	129 203	39 46	2 5	3 2
1	396.00	401.00	- fairly massive, rare phenos, still fractured with abundant qtz-carb									

# ddh Mine Cooke

**Lithology and Assays:**

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	401.00	405.00	hair-like stringers - core partly broken, fractures at low angle to CA, fractures are usually altered (quartz, epidote, carbonate)									
1	405.00	411.30	- fairly massive									
0	411.30	425.00	1T - TONALITE upper contact at 80° CA, medium to coarse grained grey to brownish grey colour, massive									
0	425.00	438.00	V6, 1T - CONTACT ZONE MAFIC VOLCANICS AND TONALITE , zone od abundant mafic volcanics with dykes 1 m across of tonalite, contacts at 70° to 80° CA, END of HOLE									

End of Lithology and Assays ;



*ddh Mine Cooke*

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**Hole:** C-07-16

<b>Easting:</b> 511127.0	<b>Northing:</b> 5513253.0	<b>Elevation:</b> 0.00
<b>AltNorthing:</b> 0.00	<b>AltEasting:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 220.0	<b>Dip:</b> -50.0	<b>Length:</b> 339.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> NQ	<b>Zone:</b> 18 NAD 83	<b>Contractor:</b> Forages Chibougamau
<b>Started:</b> 09/10/2007	<b>Finished:</b> 12/10/2007	<b>Logged By:</b> C. Larouche ing.
<b>Claim:</b> 86253	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b> Levy township, Chapais		
<b>Description:</b>		



# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	0.00	36.00	OV - OVERBURDEN granite and volcanics boulders									
0	36.00	105.00	V6 - MAFIC TO INTERMEDIATE VOLCANICS grey green colour, massive fine grained, coarsely brecciated, locally flow breccia (?) also always micor brecciated with abundant hair-like quartz - carbonate stringers, the brecciated volcanics show strong alteration around fragments									
1	36.00	45.00	- massive, carbonate on fractures									
1	45.00	48.00	- locally quartz flooding over 40 cm within more chloritic zones									
1	48.00	55.50	- minor flow breccia, altered volcanics around fragments, fragments also locally cemented by grey quartz + carbonate + minor pyrrhotite									
1	55.50	75.00	- as above, locally core badly broken, sericite + carbonate along fractures parallel to CA									
1	75.00	94.50	- as above, core partly broken where fractured at low angle to CA, carbonate + locally rusty hematitic quartz stringers, minor quartz flooding over 10 cm wide zones, trace chalcopyrite									
1	94.50	96.50	- fractured with black quartz veinlets, locally numerous hair-like quartz - carbonate stringers									
1	96.50	98.00	- core largely badly broken, slightly graphitic (?) fractures, locally gouge material over 1 cm at 40° CA									
1	98.00	105.00										

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	98.00	105.00	- highly brecciated, epidotized with numerous black graphitic fractures and abundant grey quartz matrix to breccia	98067	99.00	100.50	1.50	25	237	37	2	2
0	105.00	115.00	V6 - MAFIC VOLCANICS fine grained, grey green colour									
1	105.00	108.00	- highly brecciated, very lightly altered along fractures									
1	108.00	111.00	- brecciated areas 15 cm wide, black quartz + altered volcanics with a grey quartz + carbonate matrix	98070	109.50	111.00	1.50	5	199	45	2	2
1	111.00	115.00	- abundant black chloritic stringers, locally grey quartz + minor pyrite	98071 98072	111.00 114.00	112.50 115.50	1.50 1.50	5 5	143 124	45 51	2 270	2 2
0	115.00	118.50	2D - DIORITE fine to medium grained, slightly carbonated, massive, grey green colour									
0	118.50	145.00	V6 - MAFIC VOLCANICS NO PHENOS									
1	118.50	123.00	- locally flow breccia (?) epidotized sericitized fragments within grey quartz matrix with minor sulphides									
1	123.00	128.00	- highly brecciated, carbonated with few 15 cm grey quartz veins at 55° CA containing some pyrrhotite and trace chalcopyrite.									
1	128.00	132.30	- micor brecciated, carbonated, few hematized quartz stringers locally at low angle to CA									
1	132.30	145.00	- few grey quartz veins 10 cm wide at 40° CA, section	98060	144.00	145.50	1.50	34	49	47	2	2

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			becomes sheared at 40° CA toward 145m									
0	145.00	163.50	FD - FELSIC DYKE									
1	145.00	146.80	- usually dark brown to black in colour, glassy, 1% to 1.5% fine cubic and disseminated pyrite	98058	145.50	147.00	1.50	82	9	15	2	2
1	146.80	148.00	- beige colour, still fine pyrite locally blebs 0.5 cm across, fractured with hair-like quartz - carbonate stringers	98059	147.00	148.10	1.10	101	58	5	2	3
1	148.00	148.50	- dark grey to black in colour									
1	148.50	152.00	- beige colour, massive slightly fractured. 1% fine pyrite throughout									
1	152.00	153.50	- beige colour, fine grained to glassy, minor pyrite grains disseminated, fractured with hair-like qtz - carb stringers									
1	153.50	156.00	- grey colour, glassy to cherty, fractured, core partly broken									
1	156.00	158.50	- beige to grey colour, few qtz veinlets and veins cut by black fractures									
1	158.50	159.00	- rosy colour, one quartz + epidote veinlet at 50° CA									
1	159.00	161.00	- as above (3 additional meters of core, extra )	98068 98069	159.00 160.50	160.50 162.00	1.50 1.50	68 82	5 5	24 54	2 2	2 2
1	161.00	163.50	- felsic dyke cut by 50% grey to black quartz veining oriented at 40° to 50° CA, quartz veins area 40 cm wide with trace sulphide, lower contact at 60° CA									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
0	163.50	187.20	V6, por - MAFIC VOLCANICS SLIGHTLY PORPHYRITIC grey green colour, massive, fine grained, rare phenos of feldspar throughout									
1	163.50	165.00	- massive, rare phenos									
1	165.00	168.00	- narrow section sheared at 40° CA with qtz-carb stringers									
1	168.00	177.00	- massive, numerous grey quartz + carbonate veinlets at 70° to 80° CA, rare feldspar phenos									
1	177.00	180.00	- 1% to 1.5% phenos locally glomeroporphyritic texture, locally also sheared at 45° CA over 15 cm									
1	180.00	183.00	- as above									
1	183.00	187.20	- fractured with few black quartz veinlets at 80° CA, locally brecciated with black quartz matrix									
0	187.20	189.00	3G - GABBRO medium grained, massive, mafic crystals within lighter coloured and altered matrix									
0	189.00	205.00	V6 - MAFIC VOLCANICS brecciated									
1	189.00	192.00	- mafic volcanics coarsely brecciated (flow breccia ?)									
1	192.00	205.00	- locally coarsely brecciated ( looks like flow breccia ?) usually altered and quartz flooded where brecciated, one grey quartz vein with massive po stringers at	98065 98066	201.00 202.50	202.50 204.00	1.50 1.50	10 5	263 103	184 129	4 2	2 2

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			margins, vein oriented at 40° to 45° CA									
0	205.00	212.00	3G - GABBRO fine to medium grained, grey green colour, mafic phenos, weak fabric at 45° CA									
1	205.00	209.00	- massive, rare qtz-carb stringers									
1	209.00	212.00	- more diorite looking, massive, few grey quartz veins at 45° to 50° CA, trace pyrite, lower contact chilled or gradual (?)									
0	212.00	233.00	V6 - MAFIC TO INTERMEDIATE VOLCANICS grey green colour, fine grained and locally silicified, slightly altered with minor sulphides, usually it looks like silicification is with fragments in a coarse pillow breccia (?)									
1	212.00	215.70	- fractured and highly silicified, darker grey and some black quartz flooding oriented at 25° CA	98057 98056	214.00 215.00	215.00 216.00	1.00 1.00	5 5	111 126	95 118	3 2	6 2
1	215.70	216.20	- 30 cm band of massive pyrrhotite within quartz flooded area oriented at 55° CA	98054	216.00	216.70	0.70	7	215	356	6	2
1	216.20	219.50	- coarsely brecciated, pillow breccia where fragments are altered, epidote, sericite over 1 cm with a layer of massive pyrrhotite, layer of po is injected by grey quartz at center									
1	219.50	221.00	- as above									
1	221.00	226.50	- highly fractured with abundant hair-like qtz-carb stringers beside coarse breccia, 15 cm area with diffuse quartz flooding									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
1	226.50	229.50	- still fractured with abundant hair-like quartz - carbonate stringers, few veins of quartz + po 2 cm wide at 45° CA									
1	229.50	231.00	- as above									
1	231.00	233.00	- becomes highly silicified with 50% greu quartz flooding over the last 0.5m	98055	231.70	233.30	1.60	5	148	92	3	2
0	233.00	235.50	FD - FELSIC DYKE glassy dark grey to black felsic dyke, very rare phenos, contacts at 50° CA, few hair-like quartz stringers									
0	235.50	250.00	V6 - MAFIC TO INTERMEDIATE VOLCANICS grey green colour, massive, locally flow or pillow breccia, rare inclusions of broken felsic dykes (?)									
1	235.50	240.00	- coarsely brecciated with quartz flooded openings, minor reaction rim on volcanic fragments, locally one fragment 2 cm wide of grey chert within silicified area	98061	237.50	239.00	1.50	5	198	133	2	2
1	240.00	243.00	- highly fractured with abundant hair-like quartz carbonate fractures	98062	240.50	242.00	1.50	5	159	76	4	2
1	243.00	249.00	- more massive, only small areas micro brecciated with abundant hair-like qtz stringers, some fractures at low angle to CA									
1	249.00	250.00	- rare broken up dyke of felsite, grey chert looking, irregular areas of grey to white quartz flooding, trace sulphides									
0	250.00	254.20	FD									

# ddh Mine Cooke

## Lithology and Assays:

Level	From	To	Description	SampleNum	From	To	Length	Au ppb	Cu ppm	Zn ppm	Pb ppm	As ppm
			- FELCIS DYKE dark grey feldspar porphyry, contacts at 45° CA and schistosed, feldspar about 1 cm across and zoned (?)									
0	254.20	265.00	V6-V4 - MAFIC TO INTERMEDIATE VOLCANICS massive, fine grained									
1	254.20	258.00	- few areas of coarse breccia, rounded fragments with alteration rims, openings filled up with grey quartz, minor sulphide as rims to fragments (?)									
1	258.00	261.00	- few areas of grey quartz flooding + abundant carbonate, numerous hair-like quartz - carbonate fractures									
1	261.00	265.00	- as above, more massive, locally sheared at 45° CA with grey quartz + pyrite stringers over 30 cm areas	98063 98064	262.50 264.00	264.00 265.50	1.50 1.50	5 5	134 133	64 71	2 2	2 2
0	265.00	339.00	V6 - MAFIC VOLCANICS grey green colour, massive fine grained									
1	265.00	285.00	- brecciated (locally looks like flow breccia) with irregular masses of black to grey quartz + carbonate as matrix, usually fine pyrrhotite and trace chalcopyrite are present									
1	285.00	291.50	- more massive, slightly brecciated with hair-like qtz-carb stringers									
1	291.50	303.00	- narrow areas of large quartz patches 15 cm long filling voids between coarse fragments of V6 (flow breccia), usually fragments have alteration halos (epidote),									



# ddh Mine Cooke

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>SampleNum</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Au</i> <i>ppb</i>	<i>Cu</i> <i>ppm</i>	<i>Zn</i> <i>ppm</i>	<i>Pb</i> <i>ppm</i>	<i>As</i> <i>ppm</i>
			rare grey quartz vein parallel to CA									
1	303.00	309.00	- more massive, still locally abundant hair-like quartz - carbonate stringers, few grey to black veins 5 cm wide oriented at 70° CA									
1	309.00	312.00	- locally silicified									
1	312.00	315.00	- 20% grey to black quartz veins within a sheared section, shearing at low angle to CA, trace gouge material on fractures									
1	315.00	324.00	- fairly massive, few grey quartz + carbonate veinlets within epidotized zones									
1	324.00	339.00	- as above, END of HOLE									

End of Lithology and Assays ;

*ddh Mine Cooke*

---

16 Hole(s) printed



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## CERTIFICAT VO07107410

Projet:

Bon de commande #:

Ce rapport s'applique aux 80 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 21-SEPT-2007.

Les résultats sont transmis à:

STEVE LAROUCHE

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-QC	Test concassage QC
PUL-QC	Test concassage QC
PUL-31	Pulvérisé à 85 % <75 um
SPL-21	Échant. fractionné - div. riffles
CRU-31	Granulation - 70 % <2 mm

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
ME-ICP41	Aqua regia ICP-AES 35 éléments	ICP-AES
PGM-ICP23	Pt, Pd et Au 30 g FA ICP	ICP-AES
Au-AA23	Au 30 g fini FA-AA	AAS

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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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## CERTIFICAT D'ANALYSE VO07107410

Description échantillon	Méthode	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	élément	Poids reçu	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
unités		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
L.D.		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
98251		3.04	0.007	1.7	1.16	<2	<10	50	<0.5	<2	0.57	1.8	60	53	468	11.80
98252		3.54	<0.005	2.9	0.49	4	<10	20	<0.5	<2	2.17	5.0	81	14	327	19.6
98253		3.53	0.011	2.1	0.51	<2	<10	30	<0.5	<2	2.60	3.9	92	8	475	21.3
98254		3.39	<0.005	0.3	0.59	7	<10	70	<0.5	<2	0.61	<0.5	9	6	59	2.26
98255		3.25	<0.005	0.3	0.53	<2	<10	70	<0.5	<2	0.57	<0.5	5	7	28	1.48
98256		3.18	0.005	0.5	0.49	<2	10	10	<0.5	<2	2.68	<0.5	17	15	153	3.44
98257		3.43	0.005	0.5	2.03	<2	<10	10	<0.5	<2	0.85	<0.5	32	25	96	4.90
98258		3.89	<0.005	1.6	1.36	<2	<10	10	<0.5	<2	0.86	0.9	42	26	151	7.08
98259		3.35	<0.005	1.8	2.17	<2	<10	20	<0.5	<2	0.90	1.8	88	145	233	8.77
98260		3.22	<0.005	1.6	2.45	7	<10	10	<0.5	<2	3.15	7.1	31	183	253	9.64
98261		4.74	0.014	2.3	0.91	62	<10	10	<0.5	<2	0.80	23.2	49	48	88	24.4
98262		6.02	0.012	1.7	0.38	64	<10	10	<0.5	<2	0.54	6.8	41	6	108	25.5
98263		5.33	0.009	1.4	0.47	35	<10	10	<0.5	<2	0.56	0.9	45	24	644	36.0
98264		4.37	0.009	1.1	0.69	9	<10	10	<0.5	<2	0.69	8.2	45	24	697	31.2
98265		4.51	0.006	1.3	0.54	40	<10	10	<0.5	<2	0.40	5.7	71	5	461	32.2
98266		3.81		0.7	3.31	2	<10	<10	<0.5	<2	3.64	<0.5	34	85	107	9.47
98267		3.52		6.8	0.50	31	<10	20	<0.5	<2	2.16	4.4	82	23	496	11.50
98268		3.41	<0.005	0.2	0.79	<2	<10	40	<0.5	<2	0.76	<0.5	4	12	37	1.47
98269		3.40	0.010	2.0	0.48	<2	<10	30	<0.5	<2	2.31	4.9	86	7	467	17.2
98270		4.08	0.008	1.1	0.67	2	<10	30	<0.5	<2	0.57	<0.5	58	27	352	11.60
98271		3.63	<0.005	0.7	0.79	<2	<10	30	<0.5	<2	0.57	<0.5	40	54	158	7.32
98272		3.63	<0.005	<0.2	0.48	<2	<10	30	<0.5	<2	0.74	<0.5	3	10	83	1.29
98273		3.32	<0.005	0.2	1.37	<2	<10	20	<0.5	<2	1.18	<0.5	23	44	171	3.02
98274		3.22	<0.005	0.4	0.53	9	<10	30	<0.5	<2	0.45	<0.5	5	17	71	1.37
98275		3.54	<0.005	0.3	1.85	<2	<10	10	<0.5	<2	1.32	<0.5	44	43	170	4.60
98276		3.34	<0.005	0.3	1.84	<2	<10	10	<0.5	<2	1.22	<0.5	42	41	152	3.75
98277		3.81	<0.005	0.2	1.73	<2	<10	10	<0.5	<2	2.55	<0.5	38	44	132	3.72
98278		3.54	0.034	0.5	2.73	36	<10	30	<0.5	<2	6.01	<0.5	41	105	121	5.24
98279		3.50	0.038	0.4	2.27	23	<10	30	<0.5	<2	3.31	<0.5	19	171	42	3.31
98280		3.73	<0.005	0.2	1.38	<2	<10	10	<0.5	<2	4.03	<0.5	42	77	156	3.70
98281		3.46	<0.005	0.2	1.47	<2	<10	20	<0.5	<2	2.02	<0.5	22	83	51	2.05
98282		4.11	<0.005	0.2	1.23	<2	<10	<10	<0.5	<2	2.20	<0.5	22	78	68	1.85
98283		3.53	<0.005	<0.2	1.30	8	<10	<10	<0.5	<2	2.53	<0.5	24	78	62	1.79
98284		3.39	<0.005	0.3	1.70	2	<10	<10	<0.5	<2	1.54	<0.5	26	116	79	2.82
98285		3.00	<0.005	0.2	1.70	<2	<10	<10	<0.5	<2	1.90	<0.5	28	113	84	2.67
98286		3.57	<0.005	0.2	1.03	<2	<10	<10	<0.5	<2	1.79	<0.5	21	66	93	1.44
98287		3.85	<0.005	0.2	1.03	<2	<10	<10	<0.5	<2	2.01	<0.5	25	68	130	1.55
98288		3.74	<0.005	<0.2	1.11	<2	<10	<10	<0.5	<2	2.20	1.2	26	69	112	1.69
98289		4.08	0.005	0.5	1.21	<2	<10	30	<0.5	<2	1.58	<0.5	44	68	154	6.89
98290		4.10	0.006	0.6	1.23	<2	<10	90	<0.5	<2	0.83	<0.5	45	62	191	8.50



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## CERTIFICAT D'ANALYSE VO07107410

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
98251		<10	1	0.21	20	1.01	250	3	0.02	76	660	8	8.07	2	5	4
98252		<10	<1	0.09	20	0.38	238	2	0.01	109	420	34	>10.0	<2	4	10
98253		<10	<1	0.19	20	0.22	245	2	0.01	115	340	22	>10.0	5	3	10
98254		<10	<1	0.23	40	0.13	86	2	0.03	10	110	7	1.36	<2	1	8
98255		<10	<1	0.20	40	0.07	68	2	0.04	5	100	13	0.78	<2	1	10
98256		<10	<1	0.01	<10	0.33	356	1	0.01	15	70	3	1.72	<2	3	8
98257		10	<1	0.02	<10	1.47	889	<1	0.11	32	500	4	0.86	<2	9	6
98258		10	<1	0.04	<10	1.13	825	1	0.11	39	450	14	3.71	2	7	8
98259		10	<1	0.09	<10	2.20	812	6	0.05	118	640	56	5.29	2	6	13
98260		10	<1	0.06	<10	2.52	900	1	0.03	96	590	1395	5.43	<2	10	13
98261		<10	<1	0.05	<10	0.76	376	<1	0.01	30	190	1085	>10.0	4	4	4
98262		<10	<1	0.03	<10	0.23	212	<1	<0.01	23	60	207	>10.0	4	1	3
98263		<10	<1	0.07	<10	0.26	285	<1	0.01	57	130	26	>10.0	2	2	4
98264		<10	<1	0.09	<10	0.29	291	2	0.02	75	250	10	>10.0	2	3	12
98265		<10	<1	0.10	<10	0.25	237	<1	0.01	56	170	171	>10.0	3	2	4
98266		10	<1	0.01	<10	2.90	1395	<1	0.04	54	390	2	3.11	3	29	26
98267		<10	<1	0.05	<10	0.34	447	2	0.03	74	300	40	7.64	<2	4	10
98268		<10	<1	0.13	20	0.35	338	<1	0.10	6	200	10	0.12	<2	2	14
98269		<10	<1	0.15	20	0.21	216	2	0.04	103	320	28	>10.0	2	3	9
98270		<10	<1	0.17	<10	0.35	135	1	0.04	105	610	12	7.72	2	3	10
98271		<10	<1	0.16	<10	0.59	192	<1	0.07	105	710	5	3.85	<2	2	8
98272		<10	<1	0.12	20	0.20	141	2	0.08	4	160	6	0.44	<2	2	11
98273		<10	<1	0.09	10	0.91	370	8	0.09	56	210	3	0.77	<2	3	14
98274		<10	<1	0.12	10	0.28	167	1	0.07	10	150	8	0.37	<2	2	10
98275		10	<1	0.03	<10	0.97	696	<1	0.11	65	300	4	1.30	<2	8	16
98276		<10	<1	0.03	<10	0.99	660	<1	0.13	58	320	4	0.78	<2	8	16
98277		<10	<1	0.02	<10	0.86	762	<1	0.09	53	290	<2	0.68	<2	8	26
98278		10	<1	0.10	<10	1.94	1030	<1	0.04	94	250	2	0.99	<2	13	39
98279		10	<1	0.11	10	2.07	595	<1	0.07	73	630	10	0.50	2	9	25
98280		<10	<1	0.03	<10	0.79	645	<1	0.07	130	210	2	1.32	<2	5	19
98281		<10	<1	0.07	10	0.70	372	<1	0.06	80	250	8	0.18	<2	4	23
98282		<10	<1	0.02	<10	0.58	382	<1	0.08	73	240	2	0.10	<2	5	20
98283		<10	<1	0.01	<10	0.55	370	<1	0.07	80	260	3	0.11	<2	5	24
98284		<10	1	0.02	<10	0.98	555	<1	0.09	91	260	2	0.10	<2	6	17
98285		<10	<1	0.02	<10	0.93	540	<1	0.08	98	260	2	0.09	<2	6	18
98286		<10	<1	0.02	<10	0.42	303	<1	0.08	75	250	2	0.11	<2	5	18
98287		<10	<1	0.01	<10	0.39	305	<1	0.07	98	240	2	0.17	<2	5	19
98288		<10	<1	0.02	<10	0.52	331	<1	0.08	96	230	32	0.23	<2	5	20
98289		<10	<1	0.05	<10	0.64	458	<1	0.08	98	320	7	2.96	<2	5	15
98290		<10	<1	0.15	<10	0.85	387	<1	0.06	76	300	25	4.07	2	4	12



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## CERTIFICAT D'ANALYSE VO07107410

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	PGM-ICP23	PGM-ICP23	PGM-ICP23
		Th	Ti	Tl	U	V	W	Zn	Au	Pt	Pd
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2	0.001	0.005	0.001
98251		<20	0.18	10	<10	32	<10	907			
98252		<20	0.08	10	10	17	<10	2110			
98253		<20	0.07	10	10	13	<10	1760			
98254		<20	0.03	<10	<10	2	<10	49			
98255		<20	0.02	<10	<10	1	<10	63			
98256		<20	0.05	<10	<10	28	<10	61			
98257		<20	0.28	<10	<10	128	<10	98			
98258		<20	0.23	<10	<10	100	<10	424			
98259		<20	0.17	<10	<10	64	<10	703			
98260		<20	0.16	<10	<10	81	<10	2320			
98261		<20	0.06	<10	<10	28	<10	7060			
98262		<20	0.01	<10	10	7	<10	2110			
98263		<20	0.05	<10	10	19	<10	544			
98264		<20	0.06	<10	10	18	<10	3410			
98265		<20	0.03	<10	10	10	<10	2220			
98266		<20	0.17	<10	<10	216	<10	294	<0.001	<0.005	0.002
98267		<20	0.07	<10	<10	27	<10	1740	0.012	0.010	0.002
98268		<20	0.06	<10	<10	12	<10	63			
98269		<20	0.07	<10	<10	11	<10	1830			
98270		<20	0.18	<10	<10	20	<10	192			
98271		<20	0.22	<10	<10	27	<10	114			
98272		<20	0.05	<10	<10	8	<10	22			
98273		<20	0.11	<10	<10	36	<10	41			
98274		<20	0.05	<10	<10	11	<10	33			
98275		<20	0.29	<10	<10	101	<10	63			
98276		<20	0.28	<10	<10	99	<10	52			
98277		<20	0.29	<10	<10	98	<10	65			
98278		<20	0.16	<10	<10	133	<10	75			
98279		<20	0.09	<10	<10	63	<10	67			
98280		<20	0.16	<10	<10	55	<10	82			
98281		<20	0.15	<10	<10	42	<10	99			
98282		<20	0.24	<10	<10	54	<10	47			
98283		<20	0.25	<10	<10	53	<10	26			
98284		<20	0.25	<10	<10	70	<10	54			
98285		<20	0.26	<10	<10	66	<10	38			
98286		<20	0.23	<10	<10	48	<10	22			
98287		<20	0.24	<10	<10	47	<10	23			
98288		<20	0.22	<10	<10	49	<10	377			
98289		<20	0.28	<10	<10	67	<10	115			
98290		<20	0.24	<10	<10	51	<10	100			



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## CERTIFICAT D'ANALYSE VO07107410

Description échantillon	Méthode élément unités L.D.	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
98291		3.87	<0.005	0.3	1.03	<2	<10	10	<0.5	<2	3.31	<0.5	31	53	88	2.36
98292		4.38	<0.005	<0.2	0.89	<2	<10	<10	<0.5	<2	2.62	<0.5	34	48	111	2.53
98293		4.02	0.005	0.7	1.22	<2	<10	10	<0.5	<2	1.27	<0.5	48	73	123	4.71
98294		3.56	<0.005	0.7	2.55	3	<10	20	<0.5	<2	4.60	<0.5	46	146	154	5.37
98295		3.79	0.006	0.7	2.41	4	<10	20	<0.5	<2	3.99	0.5	30	250	357	17.1
98296		3.19	<0.005	0.3	2.75	14	<10	20	<0.5	<2	5.96	<0.5	46	179	88	4.24
98297		4.08	<0.005	0.5	1.95	<2	<10	<10	<0.5	<2	1.67	<0.5	48	112	140	4.21
98298		3.69	<0.005	0.2	3.60	3	<10	10	<0.5	<2	5.90	<0.5	31	391	58	5.50
98299		4.76	0.017	1.9	0.61	29	<10	10	<0.5	2	2.06	1.3	163	42	492	36.2
98300		4.43	0.016	1.3	0.87	36	<10	10	<0.5	<2	2.60	1.0	110	51	281	29.5
98351		3.49	<0.005	0.3	3.76	<2	<10	10	<0.5	<2	4.79	<0.5	36	194	66	6.41
98352		3.83	<0.005	1.6	1.93	4	<10	10	<0.5	<2	3.83	1.6	23	85	394	13.80
98353		3.76	0.011	1.1	1.18	15	<10	20	<0.5	<2	2.28	1.6	176	15	324	22.0
98354		3.49	<0.005	0.3	1.68	<2	<10	20	<0.5	<2	2.01	0.9	12	16	360	12.20
98355		4.73	0.005	1.5	0.70	3	<10	20	<0.5	<2	0.42	1.3	46	12	638	31.5
98356		3.97	0.006	1.0	0.76	<2	<10	30	<0.5	<2	0.58	2.6	16	15	258	13.00
98357		3.59	<0.005	0.9	0.73	<2	<10	40	<0.5	<2	0.66	2.0	25	13	256	11.80
98358		3.66	<0.005	0.2	0.93	<2	<10	<10	<0.5	<2	2.44	<0.5	53	46	123	3.58
98359		4.20	<0.005	<0.2	0.84	<2	<10	<10	<0.5	<2	3.91	<0.5	37	40	69	2.39
98360		3.39	<0.005	0.5	1.09	<2	<10	10	<0.5	<2	3.46	<0.5	41	60	121	5.66
98361		3.58	<0.005	0.8	0.57	<2	<10	10	<0.5	<2	1.88	<0.5	57	30	254	10.25
98362		3.98	<0.005	0.3	1.88	<2	<10	10	<0.5	<2	1.35	<0.5	38	103	93	5.39
98363		4.05	<0.005	0.5	1.00	<2	<10	40	<0.5	<2	0.73	<0.5	34	19	143	8.85
98364		3.05	<0.005	0.2	1.16	<2	<10	40	<0.5	<2	0.72	<0.5	33	12	125	8.06
98365		3.66	<0.005	0.2	2.91	<2	<10	10	<0.5	<2	1.37	<0.5	30	26	68	6.03
98366		4.11	<0.005	<0.2	1.41	<2	<10	20	<0.5	<2	1.35	<0.5	21	41	163	2.65
98367		3.50	<0.005	<0.2	1.45	2	<10	20	<0.5	<2	1.26	<0.5	20	41	161	2.65
98368		3.83	<0.005	1.8	0.74	4	<10	40	<0.5	<2	0.56	2.0	84	18	600	15.6
98369		3.64	<0.005	2.3	0.75	15	<10	30	<0.5	<2	0.19	<0.5	128	15	663	23.9
98370		3.88	0.008	1.4	0.91	<2	<10	30	<0.5	<2	0.23	<0.5	87	20	486	15.6
98371		3.53	0.008	1.6	0.82	4	<10	40	<0.5	<2	0.45	<0.5	69	19	354	12.40
98372		3.50	0.016	0.8	0.18	62	<10	<10	<0.5	<2	1.38	<0.5	44	13	174	19.7
98373		5.67	0.027	1.3	0.21	79	<10	10	<0.5	<2	0.60	0.5	47	7	187	25.2
98374		3.82	<0.005	0.4	0.91	29	<10	20	<0.5	<2	3.06	<0.5	28	22	135	15.7
98375		3.02	<0.005	0.2	0.36	4	<10	10	<0.5	<2	16.7	<0.5	10	5	68	3.05
98376		4.87	0.007	1.8	0.10	23	<10	<10	<0.5	<2	6.47	<0.5	104	<1	1340	36.8
98377		3.47	<0.005	0.5	0.08	8	<10	<10	<0.5	<2	20.7	<0.5	5	4	343	5.70
98378		3.23	<0.005	<0.2	0.02	4	<10	<10	<0.5	<2	>25.0	<0.5	2	<1	9	1.19
98379		3.18	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	1	1	4	1.08
98380		3.46	<0.005	0.2	0.04	3	<10	<10	<0.5	<2	24.9	<0.5	10	1	79	6.42



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Finalisée date: 9-NOV-2007

Compte: FORCHI

## CERTIFICAT D'ANALYSE VO07107410

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
98291		<10	<1	0.02	<10	0.43	556	<1	0.06	81	310	3	0.66	<2	4	24
98292		<10	<1	0.02	<10	0.36	473	1	0.06	80	270	2	0.93	<2	5	21
98293		<10	<1	0.03	<10	0.70	384	1	0.08	139	200	14	2.25	<2	4	17
98294		<10	1	0.09	<10	2.12	884	<1	0.05	131	210	3	1.88	2	8	28
98295		<10	1	0.09	<10	2.34	777	<1	0.02	174	210	<2	6.80	2	5	35
98296		<10	<1	0.11	<10	1.82	1010	<1	0.05	130	230	2	0.55	<2	11	23
98297		<10	<1	0.01	<10	1.42	609	<1	0.06	135	210	11	1.50	<2	4	21
98298		10	1	0.08	<10	4.04	1215	<1	0.01	185	370	9	2.38	<2	8	98
98299		<10	<1	0.03	<10	0.56	372	<1	0.02	89	140	4	>10.0	2	3	31
98300		<10	<1	0.03	<10	0.83	452	<1	0.03	60	150	6	>10.0	2	5	21
98351		10	<1	0.06	<10	3.87	1370	<1	0.02	105	280	4	2.16	<2	12	34
98352		10	<1	0.10	<10	2.07	866	4	0.02	77	320	777	7.68	2	7	22
98353		<10	<1	0.13	<10	1.12	512	2	0.02	67	370	161	>10.0	<2	5	12
98354		<10	<1	0.12	<10	1.73	673	<1	0.02	43	360	8	6.00	2	6	9
98355		<10	<1	0.07	<10	0.49	259	2	0.01	123	270	2	9.62	<2	2	5
98356		<10	<1	0.12	<10	0.41	226	2	0.03	57	340	13	8.45	<2	3	7
98357		<10	<1	0.13	<10	0.42	220	<1	0.04	48	400	9	7.13	<2	3	6
98358		<10	<1	0.01	<10	0.32	326	<1	0.04	146	220	4	1.88	<2	4	18
98359		<10	<1	0.01	<10	0.21	383	<1	0.03	123	220	7	1.20	<2	3	21
98360		<10	<1	0.02	<10	0.67	508	<1	0.05	114	190	6	2.95	<2	4	15
98361		<10	<1	0.02	<10	0.14	211	<1	0.05	143	180	4	4.90	2	3	15
98362		<10	<1	0.03	<10	1.32	552	<1	0.07	128	440	4	1.79	<2	4	17
98363		<10	<1	0.12	<10	0.58	233	2	0.05	36	450	5	3.97	<2	4	12
98364		<10	<1	0.13	<10	0.71	401	<1	0.06	31	480	5	3.41	2	4	5
98365		10	<1	0.02	<10	1.71	1235	<1	0.13	27	460	2	1.25	<2	8	19
98366		<10	1	0.05	<10	1.02	307	<1	0.17	41	240	<2	0.19	<2	8	7
98367		<10	<1	0.03	<10	1.02	313	<1	0.16	43	240	<2	0.15	2	7	8
98368		<10	<1	0.15	10	0.47	207	1	0.04	111	410	33	>10.0	<2	4	6
98369		<10	<1	0.11	10	0.50	199	2	0.02	165	280	56	>10.0	3	3	5
98370		<10	<1	0.12	10	0.67	307	2	0.04	110	410	155	>10.0	<2	4	4
98371		<10	<1	0.11	10	0.53	280	2	0.05	86	490	302	7.85	<2	2	6
98372		<10	<1	0.03	<10	0.11	355	1	<0.01	64	20	12	>10.0	2	<1	8
98373		<10	<1	0.03	<10	0.12	228	<1	<0.01	47	30	20	>10.0	3	<1	4
98374		<10	<1	0.09	10	0.48	648	<1	0.11	25	170	3	>10.0	2	5	67
98375		<10	<1	0.01	<10	0.26	2970	<1	0.05	10	130	<2	2.2	<2	2	122
98376		<10	<1	0.01	<10	0.06	1480	<1	0.01	69	10	<2	>10.0	3	<1	31
98377		<10	<1	<0.01	<10	0.01	2050	1	0.01	15	30	<2	4.9	<2	<1	63
98378		<10	<1	<0.01	<10	0.05	2910	<1	0.01	4	20	7	1.0	2	<1	186
98379		<10	<1	<0.01	<10	0.12	6250	<1	0.01	5	10	2	0.8	<2	<1	242
98380		<10	<1	<0.01	<10	0.03	3460	<1	0.01	22	20	2	4.9	3	<1	66





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Finalisée date: 9-NOV-2007  
Compte: FORCHI

## CERTIFICAT D'ANALYSE VO07107410

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	PGM-ICP23	PGM-ICP23	PGM-ICP23
		Ti	Ti	Ti	U	V	W	Zn	Au	Pt	Pd
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2	0.001	0.005	0.001
98291		<20	0.23	<10	10	49	<10	36			
98292		<20	0.22	<10	<10	45	<10	29			
98293		<20	0.20	<10	<10	51	<10	47			
98294		<20	0.14	<10	<10	100	<10	95			
98295		<20	0.03	<10	<10	51	<10	210			
98296		<20	0.13	<10	<10	123	<10	66			
98297		<20	0.20	<10	<10	64	<10	100			
98298		<20	<0.01	<10	<10	57	<10	186			
98299		<20	0.01	<10	10	27	<10	664			
98300		<20	0.05	<10	10	48	<10	687			
98351		<20	0.12	<10	<10	131	<10	81			
98352		<20	0.11	<10	<10	76	<10	577			
98353		<20	0.14	<10	<10	52	<10	572			
98354		<20	0.23	<10	<10	75	<10	523			
98355		<20	0.11	<10	10	23	<10	558			
98356		<20	0.20	<10	<10	39	<10	986			
98357		<20	0.29	<10	<10	48	<10	938			
98358		<20	0.22	<10	10	40	<10	53			
98359		<20	0.20	<10	<10	35	<10	49			
98360		<20	0.16	<10	<10	44	<10	33			
98361		<20	0.20	<10	<10	35	<10	75			
98362		<20	0.25	<10	<10	57	<10	63			
98363		<20	0.33	<10	<10	58	<10	52			
98364		<20	0.26	<10	<10	63	<10	98			
98365		<20	0.27	<10	<10	118	<10	64			
98366		<20	0.15	<10	<10	70	<10	27			
98367		<20	0.14	<10	<10	68	<10	27			
98368		<20	0.18	<10	<10	36	<10	710			
98369		<20	0.06	<10	<10	16	<10	19			
98370		<20	0.08	<10	<10	23	<10	17			
98371		<20	0.15	<10	<10	22	<10	44			
98372		<20	0.01	<10	<10	5	<10	65			
98373		<20	0.01	<10	10	5	<10	128			
98374		<20	0.03	<10	<10	80	<10	35			
98375		<20	0.01	<10	<10	15	<10	11			
98376		<20	<0.01	<10	10	3	<10	62			
98377		<20	0.01	<10	<10	4	<10	37			
98378		<20	<0.01	<10	<10	4	<10	19			
98379		<20	<0.01	<10	<10	3	<10	7			
98380		<20	0.01	<10	<10	4	<10	50			



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## CERTIFICAT VO07110244

Projet:

Bon de commande #: 21369

Ce rapport s'applique aux 27 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 27-SEPT-2007.

Les résultats sont transmis à:

STEVE LAROUCHE

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
ME-ICP41	Aqua regia ICP-AES 35 éléments	ICP-AES
PGM-ICP23	Pt, Pd et Au 30 g FA ICP	ICP-AES
Au-AA23	Au 30 g fini FA-AA	AAS

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ATTN: STEVE LAROUCHE

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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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## CERTIFICAT D'ANALYSE VO07110244

Description échantillon	Méthode élément unités L.D.	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
98381		3.71	<0.005	0.8	0.77	7	<10	20	<0.5	2	1.27	1.2	72	37	424	13.25
98382		4.40	<0.005	0.6	0.59	5	<10	10	<0.5	<2	1.08	4.4	38	9	624	20.8
98383		4.35	<0.005	0.5	0.32	65	<10	20	<0.5	2	0.80	1.0	91	5	189	27.3
98384		5.58	<0.005	1.2	0.14	80	<10	<10	<0.5	4	0.72	<0.5	35	6	138	28.1
98385		5.61	<0.005	1.7	0.20	76	<10	<10	<0.5	3	1.51	<0.5	46	6	199	31.8
98386		4.14	<0.005	1.1	1.51	3	<10	10	<0.5	<2	2.88	<0.5	28	45	215	7.34
98387		4.74	<0.005	2.9	0.08	6	<10	<10	<0.5	5	3.68	<0.5	56	<1	1490	>50
98388		3.98	<0.005	1.6	1.14	<2	<10	10	<0.5	2	1.98	<0.5	32	14	393	12.45
98389		3.85	<0.005	3.0	0.40	10	<10	60	<0.5	6	0.24	<0.5	122	13	708	24.1
98390		2.94	<0.005	1.9	1.46	15	<10	10	<0.5	<2	4.03	1.4	50	31	327	7.75
98391		3.84	0.005	2.8	1.00	15	<10	30	<0.5	2	3.54	2.9	108	16	698	16.2
98392		3.85	<0.005	1.4	1.23	11	<10	20	<0.5	<2	4.15	2.1	69	20	431	12.75
98393		4.09	<0.005	0.3	2.87	6	<10	10	<0.5	2	0.90	<0.5	39	67	196	6.66
98394		3.62		0.4	1.87	<2	<10	30	<0.5	<2	0.91	<0.5	52	102	180	6.77
98395		4.20		1.1	1.38	<2	<10	10	<0.5	<2	1.09	<0.5	57	40	345	19.3
98396		3.67		0.4	2.62	6	<10	<10	<0.5	<2	0.92	<0.5	40	51	56	4.21
98397		4.37		1.0	0.73	3	<10	10	<0.5	4	1.01	4.5	56	24	481	22.5
98398		3.93		0.8	0.77	6	<10	20	<0.5	5	1.04	<0.5	54	41	310	22.2
98399		4.49		2.1	0.29	9	<10	<10	<0.5	3	0.53	<0.5	78	2	913	46.6
98400		4.15		0.9	1.42	<2	<10	50	<0.5	<2	1.53	<0.5	39	34	149	9.31
98401		3.93		0.2	3.22	3	<10	10	<0.5	2	0.69	<0.5	28	101	49	5.61
98402		3.66		0.3	1.39	2	<10	<10	<0.5	<2	1.66	<0.5	18	15	50	3.39
98403		3.56		2.1	2.93	14	<10	20	<0.5	<2	0.94	2.8	35	83	151	6.53
98404		3.56		5.4	1.54	20	<10	20	<0.5	<2	2.66	21.9	104	38	735	15.7
98405		3.78		3.3	1.58	2	<10	40	<0.5	2	0.86	<0.5	63	83	434	8.74
98406		3.32		2.2	2.12	<2	<10	30	<0.5	2	1.45	<0.5	43	102	151	8.24
98407		3.53		<0.2	2.27	2	<10	10	<0.5	<2	1.10	<0.5	33	108	71	4.30



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## CERTIFICAT D'ANALYSE VO07110244

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
98381		<10	1	0.09	<10	0.32	335	<1	0.04	53	430	5	7.98	<2	6	15
98382		<10	<1	0.05	<10	0.11	226	4	0.01	74	350	<2	9.01	<2	4	11
98383		<10	1	0.11	<10	0.06	216	<1	0.03	26	150	9	>10.0	<2	1	7
98384		<10	1	0.02	<10	0.09	248	<1	0.01	28	40	16	>10.0	<2	1	4
98385		<10	<1	0.02	<10	0.12	338	<1	0.01	40	40	25	>10.0	<2	1	8
98386		<10	1	0.06	<10	0.92	671	<1	0.12	45	480	8	3.45	<2	8	19
98387		<10	1	0.02	<10	0.03	391	<1	0.01	165	40	11	6.62	<2	1	9
98388		<10	<1	0.06	<10	0.74	549	<1	0.13	59	370	7	5.56	<2	8	11
98389		<10	<1	0.14	10	0.12	71	2	0.03	163	300	46	7.76	2	3	4
98390		10	<1	0.05	<10	1.16	835	<1	0.07	49	420	54	3.84	<2	12	15
98391		<10	1	0.16	<10	0.63	606	<1	0.03	95	370	56	9.94	<2	7	14
98392		<10	<1	0.07	<10	0.49	973	3	0.03	61	380	25	7.64	<2	6	14
98393		10	1	0.06	<10	2.04	848	<1	0.11	52	560	12	1.39	<2	11	11
98394		<10	<1	0.08	<10	1.34	464	<1	0.08	147	550	10	3.50	<2	6	17
98395		<10	1	0.04	<10	1.00	490	<1	0.06	127	230	5	7.80	<2	4	13
98396		<10	1	0.01	<10	2.21	655	<1	0.06	151	300	4	0.87	<2	6	16
98397		<10	1	0.03	<10	0.24	213	<1	0.04	106	240	3	8.38	<2	3	12
98398		<10	1	0.07	<10	0.48	335	<1	0.05	119	180	3	8.54	<2	4	9
98399		<10	1	0.01	<10	0.04	96	1	0.01	165	120	6	7.34	<2	1	5
98400		<10	1	0.10	<10	1.01	672	<1	0.06	62	530	6	4.71	<2	6	19
98401		10	1	0.03	10	2.60	1210	<1	0.06	68	300	4	0.39	<2	6	13
98402		<10	1	0.01	<10	0.86	493	<1	0.08	20	480	2	0.62	<2	6	18
98403		10	<1	0.05	<10	2.33	792	<1	0.08	82	670	245	1.50	<2	8	13
98404		10	1	0.07	<10	1.31	436	14	0.06	120	430	944	8.96	<2	9	13
98405		<10	1	0.14	10	1.27	414	4	0.06	110	650	36	4.58	<2	6	18
98406		10	<1	0.11	10	1.85	599	18	0.05	80	510	32	5.58	<2	8	26
98407		<10	1	0.02	<10	1.54	558	<1	0.09	120	560	4	0.84	<2	5	23



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## CERTIFICAT D'ANALYSE VO07110244

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	PGM-ICP23	PGM-ICP23	PGM-ICP23
		Th	Ti	Tl	U	V	W	Zn	Au	Pt	Pd
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
98381		<20	0.31	<10	<10	58	<10	702			
98382		<20	0.20	<10	<10	33	<10	2030			
98383		<20	0.03	<10	<10	7	<10	890			
98384		<20	0.01	<10	<10	6	<10	225			
98385		<20	0.01	<10	<10	8	<10	91			
98386		<20	0.28	<10	<10	96	<10	218			
98387		<20	0.01	<10	<10	9	<10	144			
98388		<20	0.19	<10	<10	76	<10	294			
98389		<20	0.08	<10	<10	13	<10	748			
98390		<20	0.23	<10	<10	107	<10	831			
98391		<20	0.21	<10	<10	60	<10	1645			
98392		<20	0.15	<10	<10	76	<10	1110			
98393		<20	0.26	<10	<10	170	<10	145			
98394		<20	0.24	<10	<10	62	<10	48	0.003	<0.005	0.002
98395		<20	0.09	<10	<10	37	<10	244	0.004	0.008	0.006
98396		<20	0.10	<10	<10	51	<10	60	0.002	0.011	0.009
98397		<20	0.10	<10	<10	27	<10	2220	0.003	<0.005	0.003
98398		<20	0.11	<10	<10	35	<10	309	0.003	<0.005	0.003
98399		<20	0.04	<10	<10	11	<10	886	0.003	<0.005	0.005
98400		<20	0.32	<10	<10	84	<10	160	0.003	0.005	0.003
98401		<20	0.25	<10	<10	110	<10	102	<0.001	<0.005	0.006
98402		<20	0.33	<10	<10	76	<10	31	0.001	<0.005	0.001
98403		<20	0.28	<10	<10	111	<10	962	0.001	<0.005	0.001
98404		<20	0.17	<10	<10	80	<10	5670	0.008	<0.005	0.004
98405		<20	0.20	<10	<10	55	<10	66	0.006	<0.005	0.002
98406		<20	0.21	<10	<10	67	<10	53	0.004	<0.005	0.004
98407		<20	0.26	<10	<10	67	<10	60	0.001	<0.005	0.001



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## CERTIFICAT VO07113384

Projet:

Bon de commande #:

Ce rapport s'applique aux 48 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 3-OCT-2007.

Les résultats sont transmis à:

STEVE LAROUCHE

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
CRU-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
ME-ICP41	Aqua regia ICP-AES 35 éléments	ICP-AES
Au-AA23	Au 30 g fini FA-AA	AAS

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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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## CERTIFICAT D'ANALYSE VO07113384

Description échantillon	Méthode	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	élément	Poids reçu	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
unités		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
L.D.		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
98301		3.65	<0.005	0.3	2.04	<2	<10	10	<0.5	<2	1.02	<0.5	23	66	93	3.30
98302		3.91	<0.005	0.6	1.87	2	<10	10	<0.5	<2	1.06	0.8	26	76	103	3.37
98303		3.75	0.007	0.9	0.81	5	<10	40	<0.5	<2	1.08	2.7	71	33	407	8.41
98304		4.17	<0.005	0.7	1.07	<2	<10	20	<0.5	<2	1.55	0.8	50	47	316	5.44
98305		3.93	0.006	0.5	1.16	<2	<10	10	<0.5	<2	1.92	<0.5	45	59	197	3.89
98408		3.98	<0.005	1.0	2.48	<2	<10	30	<0.5	<2	0.87	<0.5	31	134	176	5.64
98409		4.12	<0.005	0.8	2.66	<2	<10	20	<0.5	<2	1.01	0.5	35	102	122	4.99
98410		3.28	<0.005	1.0	2.20	<2	<10	20	<0.5	<2	0.92	<0.5	37	78	141	4.70
98411		3.61	<0.005	0.9	2.43	6	<10	20	<0.5	<2	1.02	<0.5	38	86	146	5.29
98412		3.06	<0.005	0.7	2.69	5	<10	20	<0.5	<2	0.87	<0.5	38	97	193	5.23
98413		3.36	<0.005	0.3	2.82	3	<10	20	<0.5	<2	0.96	<0.5	30	90	97	4.75
98414		3.83	<0.005	<0.2	1.42	3	<10	10	<0.5	<2	1.04	<0.5	31	48	227	3.62
98415		3.84	0.010	<0.2	1.89	3	<10	10	<0.5	<2	1.31	<0.5	31	70	129	3.83
98416		3.63	<0.005	0.3	1.84	2	<10	10	<0.5	<2	1.37	<0.5	34	70	203	4.14
98417		3.25	<0.005	0.4	1.78	3	<10	10	<0.5	<2	1.24	<0.5	21	62	64	3.21
98418		4.23	<0.005	0.2	1.97	<2	<10	10	<0.5	<2	1.12	<0.5	32	63	212	4.02
98419		3.75	<0.005	0.4	1.47	<2	<10	10	<0.5	<2	1.70	<0.5	47	81	149	4.27
98420		3.70	<0.005	0.5	1.18	5	<10	10	<0.5	<2	3.82	<0.5	49	54	164	5.67
98421		3.90	<0.005	<0.2	1.15	<2	<10	50	<0.5	<2	1.31	<0.5	16	27	46	3.16
98422		3.65	<0.005	0.6	1.91	<2	<10	40	<0.5	<2	2.42	<0.5	25	90	73	4.26
98423		3.60	<0.005	1.1	1.56	<2	<10	10	<0.5	<2	2.04	3.3	31	97	106	3.67
98424		3.67	<0.005	0.8	2.12	3	<10	10	<0.5	<2	1.43	<0.5	30	100	77	4.06
98425		3.72	<0.005	0.3	2.13	<2	<10	10	<0.5	<2	1.66	<0.5	30	97	79	3.85
98426		3.55	<0.005	0.2	2.20	<2	<10	10	<0.5	<2	1.55	<0.5	31	94	72	3.81
98427		3.91	<0.005	<0.2	1.77	<2	<10	10	<0.5	<2	1.62	<0.5	45	88	123	4.16
98428		3.57	0.008	<0.2	1.31	<2	<10	10	<0.5	<2	1.04	<0.5	43	80	104	3.62
98429		3.97	<0.005	<0.2	1.18	<2	<10	10	<0.5	<2	1.75	<0.5	33	66	79	2.48
98430		4.15	<0.005	0.2	1.69	<2	<10	10	<0.5	<2	1.20	<0.5	42	83	109	4.34
98431		3.69	<0.005	<0.2	1.48	<2	<10	20	<0.5	<2	1.50	<0.5	55	73	122	5.15
98432		3.84	<0.005	0.5	1.62	<2	<10	40	<0.5	<2	1.15	<0.5	48	153	119	4.74
98433		3.83	<0.005	0.9	1.82	<2	<10	20	<0.5	<2	0.87	<0.5	54	114	147	6.20
98434		3.50	<0.005	1.1	1.63	2	<10	20	<0.5	<2	1.02	<0.5	50	111	130	5.71
98435		3.24	<0.005	1.0	1.70	<2	30	20	<0.5	<2	1.86	0.6	46	121	118	4.17
98436		3.71	<0.005	1.0	2.06	<2	<10	20	<0.5	<2	0.99	<0.5	47	111	146	5.09
98437		3.82	<0.005	0.2	2.21	<2	<10	10	<0.5	<2	1.17	<0.5	32	104	72	4.82
98438		3.63	<0.005	0.2	2.29	2	<10	10	<0.5	<2	1.06	<0.5	33	120	69	4.54
98439		3.82	<0.005	0.2	1.66	<2	<10	20	<0.5	<2	1.13	<0.5	45	87	131	4.35
98440		3.98	<0.005	<0.2	1.57	<2	<10	10	<0.5	<2	1.13	<0.5	45	91	141	4.30
98441		3.35	0.005	<0.2	2.09	<2	<10	10	<0.5	<2	1.36	<0.5	30	68	78	4.42
98442		3.71	<0.005	0.2	2.41	3	<10	<10	<0.5	<2	0.98	<0.5	35	40	50	4.22



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## CERTIFICAT D'ANALYSE VO07113384

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
98301		<10	<1	0.07	<10	1.48	405	<1	0.07	74	240	3	0.20	<2	5	17
98302		<10	<1	0.05	<10	1.46	421	70	0.07	82	260	58	0.52	<2	5	15
98303		<10	<1	0.10	<10	0.41	309	2	0.07	118	320	21	4.82	<2	5	12
98304		<10	<1	0.05	<10	0.60	416	1	0.05	82	280	17	2.95	<2	6	18
98305		<10	<1	0.03	<10	0.64	510	3	0.09	96	280	6	1.58	<2	6	19
98408		10	<1	0.11	<10	2.14	706	6	0.07	111	650	9	1.46	<2	6	21
98409		10	<1	0.11	<10	2.22	708	<1	0.09	111	390	16	0.55	<2	7	20
98410		<10	<1	0.10	<10	1.99	634	1	0.11	102	240	16	0.68	<2	8	19
98411		10	<1	0.11	<10	2.06	695	<1	0.11	105	240	12	1.03	<2	9	22
98412		10	<1	0.09	<10	2.39	782	1	0.08	103	230	10	0.61	<2	9	17
98413		10	<1	0.10	<10	2.36	684	<1	0.12	85	230	3	0.18	<2	8	18
98414		<10	<1	0.09	<10	1.00	312	<1	0.09	77	180	4	0.87	<2	4	12
98415		<10	<1	0.07	<10	1.38	373	<1	0.16	81	230	2	0.47	<2	7	14
98416		<10	<1	0.05	<10	1.38	410	6	0.13	77	220	5	0.70	<2	7	14
98417		<10	<1	0.07	<10	1.28	417	1	0.13	52	160	11	0.23	<2	6	14
98418		<10	<1	0.07	<10	1.49	432	<1	0.12	85	220	7	0.63	<2	6	15
98419		<10	<1	0.05	<10	0.79	384	<1	0.11	135	250	6	1.71	<2	8	27
98420		<10	<1	0.05	<10	0.56	388	<1	0.08	134	220	13	3.21	<2	6	31
98421		<10	<1	0.13	10	0.54	341	1	0.10	40	360	5	1.01	<2	3	20
98422		10	1	0.11	10	1.29	569	1	0.09	79	370	10	1.29	<2	8	24
98423		<10	1	0.05	<10	1.22	492	<1	0.13	97	260	241	1.35	<2	8	23
98424		<10	<1	0.03	<10	1.80	589	<1	0.08	93	270	51	0.66	2	6	17
98425		<10	<1	0.02	<10	1.68	533	<1	0.07	88	260	3	0.54	2	6	20
98426		<10	1	0.02	<10	1.71	545	<1	0.07	100	250	<2	0.42	<2	6	17
98427		<10	1	0.05	<10	1.00	422	<1	0.12	129	220	3	1.52	<2	9	24
98428		<10	<1	0.04	<10	0.79	353	<1	0.12	133	210	3	1.38	<2	7	17
98429		<10	<1	0.02	<10	0.60	323	<1	0.09	113	200	3	0.74	<2	5	20
98430		<10	<1	0.04	<10	1.08	440	<1	0.10	141	370	2	1.31	<2	6	22
98431		<10	<1	0.06	<10	0.87	405	<1	0.11	155	210	3	2.37	<2	6	22
98432		<10	1	0.11	<10	1.30	434	<1	0.10	183	440	5	1.81	<2	6	21
98433		10	<1	0.05	<10	1.31	579	<1	0.12	163	230	16	2.85	<2	8	17
98434		<10	1	0.05	<10	1.08	538	<1	0.13	145	230	19	2.84	3	9	19
98435		<10	<1	0.05	<10	1.28	619	1	0.14	137	310	133	1.84	<2	8	24
98436		<10	<1	0.06	<10	1.48	574	<1	0.12	152	380	8	1.69	<2	8	24
98437		<10	<1	0.03	10	1.70	533	<1	0.09	116	660	2	0.96	<2	4	22
98438		<10	1	0.02	10	1.78	517	<1	0.07	141	650	<2	0.57	<2	4	23
98439		<10	<1	0.04	<10	1.09	426	<1	0.13	134	320	2	1.39	<2	6	25
98440		<10	<1	0.04	<10	1.01	428	<1	0.12	141	270	2	1.36	<2	5	23
98441		<10	1	0.06	<10	1.45	529	2	0.11	90	600	<2	0.59	<2	5	23
98442		<10	<1	0.02	<10	2.13	566	<1	0.06	145	280	2	0.90	<2	6	16





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## CERTIFICAT D'ANALYSE VO07113384

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
98301		<20	0.20	<10	<10	57	<10	37
98302		<20	0.19	<10	<10	59	<10	289
98303		<20	0.22	<10	<10	44	<10	1265
98304		<20	0.26	<10	<10	56	<10	398
98305		<20	0.26	<10	10	62	<10	55
98408		<20	0.26	<10	<10	71	<10	71
98409		<20	0.22	<10	<10	81	<10	267
98410		<20	0.16	<10	<10	80	<10	55
98411		<20	0.20	<10	<10	89	<10	52
98412		<20	0.21	<10	<10	98	<10	55
98413		<20	0.19	<10	<10	87	<10	47
98414		<20	0.13	<10	<10	45	<10	29
98415		<20	0.15	<10	<10	68	<10	39
98416		<20	0.16	<10	<10	70	<10	46
98417		<20	0.12	<10	<10	57	<10	136
98418		<20	0.15	<10	<10	64	<10	38
98419		<20	0.27	<10	<10	74	<10	45
98420		<20	0.25	<10	10	60	<10	52
98421		<20	0.15	<10	<10	24	<10	47
98422		<20	0.22	<10	<10	75	<10	59
98423		<20	0.23	<10	<10	81	<10	855
98424		<20	0.20	<10	<10	79	<10	97
98425		<20	0.22	<10	<10	69	<10	46
98426		<20	0.22	<10	<10	69	<10	48
98427		<20	0.25	<10	<10	78	<10	51
98428		<20	0.24	<10	<10	67	<10	41
98429		<20	0.22	<10	<10	56	<10	43
98430		<20	0.26	<10	<10	62	<10	60
98431		<20	0.22	<10	<10	61	<10	78
98432		<20	0.20	<10	<10	64	<10	61
98433		<20	0.22	<10	<10	89	<10	80
98434		<20	0.23	<10	<10	96	<10	77
98435		<20	0.23	<10	<10	84	<10	219
98436		<20	0.27	<10	<10	80	<10	99
98437		<20	0.27	<10	<10	65	<10	68
98438		<20	0.25	<10	<10	60	<10	62
98439		<20	0.24	<10	<10	66	<10	58
98440		<20	0.23	<10	<10	65	<10	46
98441		<20	0.30	<10	<10	69	<10	56
98442		<20	0.10	<10	<10	50	<10	55



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## CERTIFICAT D'ANALYSE VO07113384

Description échantillon	Méthode élément unités L.D.	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
98443		3.81	<0.005	<0.2	2.92	2	<10	<10	<0.5	<2	1.30	<0.5	38	40	49	4.33
98444		3.99	<0.005	0.5	2.49	<2	<10	<10	<0.5	<2	1.12	<0.5	43	39	58	4.42
98445		3.44	<0.005	0.2	2.80	<2	<10	<10	<0.5	<2	1.04	<0.5	42	57	44	4.61
98446		3.35	<0.005	0.5	2.13	<2	<10	20	<0.5	<2	1.24	<0.5	33	75	134	4.29
98447		3.73	<0.005	1.2	2.15	<2	<10	20	<0.5	<2	0.96	<0.5	35	75	118	4.16
98448		4.00	<0.005	0.4	2.29	2	<10	10	<0.5	<2	1.02	<0.5	31	83	128	4.45
98449		3.60	<0.005	0.8	2.37	3	<10	20	<0.5	<2	1.59	<0.5	35	103	132	4.83
98450		3.47	0.005	0.3	1.40	<2	<10	30	<0.5	<2	0.73	<0.5	16	51	60	2.39



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## CERTIFICAT D'ANALYSE VO07113384

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
98443		<10	1	0.01	<10	2.46	634	<1	0.05	138	280	<2	0.50	<2	6	20
98444		<10	1	0.02	<10	2.23	556	2	0.06	159	290	<2	1.20	<2	7	17
98445		<10	<1	0.01	<10	2.62	648	<1	0.06	174	290	3	1.12	<2	8	15
98446		<10	1	0.08	<10	1.72	545	1	0.12	95	230	2	0.57	<2	7	19
98447		<10	1	0.09	<10	1.86	532	<1	0.14	100	230	8	0.39	<2	8	16
98448		<10	1	0.06	<10	1.87	592	<1	0.11	86	210	2	0.29	<2	6	15
98449		<10	1	0.08	<10	2.05	633	1	0.08	92	240	14	0.82	<2	7	15
98450		<10	1	0.08	10	1.07	308	<1	0.08	55	170	20	0.20	<2	3	18



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## CERTIFICAT D'ANALYSE VO07113384

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
98443		<20	0.10	<10	<10	58	<10	53
98444		<20	0.09	<10	<10	52	<10	49
98445		<20	0.11	<10	<10	61	<10	50
98446		<20	0.17	<10	<10	73	<10	54
98447		<20	0.16	<10	<10	75	<10	43
98448		<20	0.16	<10	<10	76	<10	53
98449		<20	0.16	<10	<10	83	<10	63
98450		<20	0.13	<10	<10	40	<10	77



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## CERTIFICAT VO07121254

Projet:

Bon de commande #:

Ce rapport s'applique aux 91 échantillons de carotte forage soumis à notre laboratoire de Val d'Or, QC, Canada le 20-OCT-2007.

Les résultats sont transmis à:

STEVE LAROUCHE

## PRÉPARATION ÉCHANTILLONS

CODE ALS	DESCRIPTION
WEI-21	Poids échantillon reçu
LOG-22	Entrée échantillon - Reçu sans code barre
PUL-QC	Test concassage QC
CRU-31	Granulation - 70 % <2 mm
SPL-21	Échant. fractionné - div. riffles
PUL-31	Pulvérisé à 85 % <75 um

## PROCÉDURES ANALYTIQUES

CODE ALS	DESCRIPTION	INSTRUMENT
ME-ICP41	Aqua regia ICP-AES 35 éléments	ICP-AES
Au-AA23	Au 30 g fini FA-AA	AAS

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ATTN: STEVE LAROUCHE

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Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

Signature:

Lawrence Ng, Laboratory Manager - Vancouver



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## CERTIFICAT D'ANALYSE VO07121254

Description échantillon	Méthode	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	élément unités L.D.	Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
98051		3.57	<0.005	2.6	1.56	10	<10	10	<0.5	<2	0.95	1.2	21	69	436	2.54
98052		3.23	<0.005	0.2	0.10	<2	<10	<10	<0.5	<2	>25.0	<0.5	2	1	8	0.90
98053		4.27	<0.005	2.4	2.58	13	<10	10	<0.5	<2	1.21	<0.5	29	111	267	4.37
98054		4.18	0.007	0.2	2.28	2	10	50	<0.5	<2	4.48	0.8	60	97	215	11.15
98055		4.33	<0.005	<0.2	2.52	<2	20	10	<0.5	<2	5.57	<0.5	40	130	148	5.00
98056		3.66	<0.005	<0.2	3.23	<2	<10	20	<0.5	<2	8.47	<0.5	48	184	126	6.89
98057		2.53	<0.005	<0.2	2.86	6	<10	10	<0.5	<2	4.49	<0.5	41	180	111	6.42
98058		3.11	0.082	<0.2	0.30	<2	<10	40	0.5	<2	1.14	<0.5	1	11	9	0.77
98059		2.78	0.101	<0.2	0.28	3	<10	40	<0.5	<2	1.27	<0.5	2	10	58	0.95
98060		3.05	0.034	<0.2	2.15	<2	<10	40	0.5	<2	3.37	<0.5	15	122	49	3.84
98061		3.47	<0.005	0.4	3.77	<2	10	10	<0.5	<2	5.41	<0.5	53	186	198	6.94
98062		3.62	<0.005	<0.2	2.44	<2	10	10	<0.5	<2	4.82	<0.5	56	129	159	5.48
98063		4.10	<0.005	<0.2	2.35	<2	<10	10	<0.5	<2	3.21	<0.5	39	117	134	4.28
98064		4.10	<0.005	<0.2	2.60	<2	<10	<10	<0.5	<2	4.62	<0.5	40	138	133	4.77
98065		4.15	0.010	<0.2	2.89	2	40	<10	<0.5	<2	3.53	<0.5	52	83	263	7.13
98066		3.16	<0.005	<0.2	2.45	<2	<10	<10	<0.5	<2	3.96	<0.5	38	80	103	5.57
98067		3.91	0.025	<0.2	2.20	2	50	<10	<0.5	<2	4.26	<0.5	29	140	237	3.51
98068		2.80	0.068	<0.2	0.35	<2	<10	60	<0.5	<2	0.69	<0.5	<1	9	5	0.59
98069		3.49	0.082	<0.2	0.36	<2	<10	50	<0.5	<2	0.63	<0.5	1	8	5	0.53
98070		3.75	<0.005	<0.2	2.63	<2	10	10	<0.5	<2	2.03	<0.5	30	138	199	4.15
98071		4.19	<0.005	<0.2	2.53	<2	10	<10	<0.5	<2	3.00	<0.5	29	138	143	4.27
98072		4.07	<0.005	<0.2	2.98	<2	10	10	<0.5	<2	2.22	<0.5	30	135	124	4.89
98073		3.47	0.064	<0.2	0.39	20	<10	50	<0.5	<2	0.83	<0.5	1	6	7	0.77
98074		3.15	0.107	<0.2	0.37	27	<10	50	0.5	<2	0.65	<0.5	1	7	6	0.86
98075		4.18	0.007	<0.2	4.33	16	<10	<10	<0.5	<2	7.65	<0.5	55	174	184	7.98
98076		4.97	0.008	1.5	0.16	35	<10	<10	<0.5	<2	0.34	1.1	26	1	111	26.9
98077		5.22	<0.005	1.9	0.11	38	<10	<10	<0.5	<2	0.21	0.9	23	1	75	26.4
98078		5.50	<0.005	2.0	0.09	47	<10	<10	<0.5	<2	0.35	<0.5	35	1	74	28.2
98079		5.40	0.007	1.7	0.10	69	<10	<10	<0.5	<2	0.30	0.8	38	3	61	29.9
98080		6.41	<0.005	2.1	0.06	62	<10	<10	<0.5	<2	0.57	0.9	44	2	67	31.9
98081		5.25	0.006	1.4	0.20	58	<10	10	<0.5	<2	0.82	0.9	48	4	45	28.7
98082		3.79	<0.005	1.6	0.35	72	<10	20	<0.5	<2	0.38	0.6	48	7	47	29.5
98083		5.08	0.005	1.5	0.18	59	<10	10	<0.5	<2	0.32	1.0	49	4	62	26.6
98084		5.82	0.008	1.2	0.16	64	<10	10	<0.5	2	0.37	1.1	52	6	56	25.3
98085		4.80	0.007	1.0	0.29	61	<10	10	<0.5	<2	0.51	1.0	45	10	102	27.9
98086		5.24	0.011	1.3	0.32	62	<10	10	<0.5	<2	1.06	1.6	50	10	372	34.0
98087		2.90	0.005	1.0	0.18	51	<10	<10	<0.5	4	0.81	0.5	40	6	421	32.3
98088		4.67	<0.005	0.2	0.09	3	50	<10	<0.5	<2	22.2	<0.5	2	1	40	2.17
98089		2.27	<0.005	0.3	0.16	4	30	<10	<0.5	<2	24.9	<0.5	3	1	17	0.53
98090		4.30	<0.005	0.3	0.35	<2	<10	30	<0.5	<2	2.25	<0.5	5	8	132	1.41



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## CERTIFICAT D'ANALYSE VO07121254

Description échantillon	Méthode élément unités L.D.		ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
98051	10	1	0.07	<10	1.18	403	4	0.11	74	230	643	0.41	<2	5	14
98052	<10	<1	0.01	<10	0.11	5640	<1	0.01	8	30	7	0.6	<2	<1	64
98053	10	1	0.06	<10	2.18	711	6	0.09	94	270	60	0.22	<2	7	14
98054	10	<1	0.12	<10	1.57	996	1	0.08	78	440	6	4.57	<2	11	13
98055	10	<1	0.03	<10	1.41	1215	<1	0.05	78	220	3	0.32	<2	6	25
98056	10	<1	0.07	<10	2.04	1385	<1	0.06	92	290	<2	1.09	<2	8	21
98057	10	<1	0.02	<10	1.85	1185	<1	0.07	95	280	3	1.10	<2	7	19
98058	<10	<1	0.15	<10	0.06	98	2	0.08	<1	50	2	0.36	<2	1	5
98059	<10	<1	0.15	<10	0.04	87	2	0.08	<1	50	2	0.70	<2	1	12
98060	10	<1	0.14	<10	1.53	701	1	0.08	53	120	<2	0.10	<2	11	13
98061	10	<1	0.02	<10	2.34	1430	<1	0.04	101	280	<2	0.35	<2	8	29
98062	<10	<1	0.01	<10	1.39	1020	<1	0.06	99	260	4	1.06	<2	6	29
98063	<10	<1	0.01	<10	1.30	953	<1	0.05	87	280	<2	0.31	<2	6	20
98064	<10	<1	0.01	<10	1.53	1115	<1	0.06	84	260	<2	0.32	<2	6	23
98065	10	<1	0.01	<10	1.53	1295	<1	0.07	51	600	4	1.07	<2	8	16
98066	10	<1	0.01	<10	1.21	1260	<1	0.07	44	610	<2	0.34	<2	8	13
98067	<10	1	0.01	<10	1.24	659	<1	0.08	93	170	<2	0.08	<2	6	22
98068	<10	<1	0.24	<10	0.03	95	<1	0.08	1	40	2	0.12	<2	<1	5
98069	<10	<1	0.19	<10	0.03	81	<1	0.13	1	40	2	0.05	<2	<1	5
98070	10	<1	0.03	<10	1.74	681	<1	0.08	80	190	2	0.10	<2	5	28
98071	<10	<1	0.02	<10	1.61	757	<1	0.07	78	190	<2	0.21	<2	6	35
98072	10	<1	0.04	<10	2.07	784	<1	0.07	86	270	<2	0.12	<2	5	30
98073	<10	<1	0.25	10	0.02	70	1	0.10	2	80	4	0.30	<2	<1	4
98074	<10	<1	0.25	<10	0.02	66	<1	0.08	1	80	4	0.40	<2	<1	3
98075	10	<1	0.01	<10	3.61	1360	<1	0.02	175	330	<2	0.42	<2	18	45
98076	<10	<1	0.02	<10	0.06	171	1	0.01	16	20	71	>10.0	<2	<1	3
98077	<10	<1	0.02	<10	0.03	136	<1	0.01	8	20	42	>10.0	<2	<1	3
98078	<10	<1	0.03	<10	0.02	124	1	0.01	10	20	37	>10.0	<2	<1	4
98079	<10	<1	0.03	<10	0.02	116	1	0.01	13	30	26	>10.0	<2	<1	3
98080	<10	<1	0.02	<10	0.02	214	1	0.02	15	10	28	>10.0	<2	<1	6
98081	<10	<1	0.06	<10	0.07	281	1	0.01	21	50	30	>10.0	<2	<1	6
98082	<10	<1	0.11	<10	0.14	231	1	0.01	22	90	40	>10.0	<2	1	3
98083	<10	<1	0.05	<10	0.06	200	1	0.01	27	40	36	>10.0	<2	1	3
98084	<10	<1	0.03	<10	0.06	228	1	0.02	29	30	23	>10.0	<2	<1	3
98085	<10	<1	0.03	<10	0.15	332	1	0.02	33	50	26	>10.0	<2	1	4
98086	<10	<1	0.02	<10	0.18	411	1	0.02	66	40	27	>10.0	<2	1	6
98087	<10	<1	0.02	<10	0.09	281	1	0.01	73	40	19	>10.0	<2	<1	5
98088	<10	<1	<0.01	<10	0.05	5050	<1	0.02	4	30	7	1.1	<2	<1	46
98089	<10	<1	<0.01	<10	0.01	2510	<1	0.02	7	50	7	<0.01	<2	<1	59
98090	<10	<1	0.08	10	0.09	278	1	0.07	7	120	6	0.76	<2	1	23



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## CERTIFICAT D'ANALYSE VO07121254

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
98051		<20	0.18	<10	<10	51	<10	359
98052		<20	0.01	<10	<10	1	<10	25
98053		<20	0.26	<10	<10	96	<10	107
98054		<20	0.47	<10	<10	158	<10	356
98055		<20	0.35	<10	<10	90	<10	92
98056		<20	0.37	<10	<10	156	<10	118
98057		<20	0.46	<10	10	123	<10	95
98058		<20	0.01	<10	<10	2	<10	15
98059		<20	0.01	<10	<10	2	<10	5
98060		<20	0.12	<10	<10	79	<10	47
98061		<20	0.47	<10	10	138	<10	133
98062		<20	0.44	<10	<10	93	<10	76
98063		<20	0.44	<10	<10	85	<10	64
98064		<20	0.46	<10	<10	93	<10	71
98065		<20	0.69	<10	<10	176	<10	184
98066		<20	0.61	<10	<10	176	<10	129
98067		<20	0.38	<10	<10	78	<10	37
98068		<20	0.01	<10	<10	2	<10	24
98069		<20	0.01	<10	<10	1	<10	54
98070		<20	0.32	<10	<10	74	<10	45
98071		<20	0.31	<10	<10	82	<10	45
98072		<20	0.39	<10	<10	90	<10	51
98073		<20	<0.01	<10	<10	1	<10	3
98074		<20	<0.01	<10	<10	1	<10	5
98075		<20	0.21	<10	<10	162	<10	99
98076		<20	0.01	<10	<10	3	<10	135
98077		<20	0.01	<10	<10	2	<10	77
98078		<20	0.01	<10	<10	2	<10	111
98079		<20	0.01	<10	<10	3	<10	45
98080		<20	<0.01	<10	<10	2	<10	82
98081		<20	0.02	<10	<10	5	<10	167
98082		<20	0.03	<10	<10	8	<10	134
98083		<20	0.02	<10	<10	5	<10	139
98084		<20	0.01	<10	10	4	<10	94
98085		<20	0.02	<10	10	8	<10	120
98086		<20	0.01	<10	10	11	<10	109
98087		<20	0.01	<10	10	6	<10	54
98088		<20	<0.01	<10	<10	4	<10	7
98089		<20	0.02	<10	<10	3	<10	21
98090		<20	0.03	<10	<10	5	<10	7





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## CERTIFICAT D'ANALYSE VO07121254

Description échantillon	Méthode élément unités L.D.	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
98091		3.87	<0.005	0.3	1.11	4	<10	10	<0.5	<2	2.61	<0.5	28	55	85	1.76
98451		3.70	<0.005	0.6	1.06	<2	<10	10	<0.5	<2	3.14	9.2	34	55	102	2.25
98452		4.19	<0.005	0.6	1.05	<2	<10	10	<0.5	<2	3.09	9.0	33	54	99	2.22
98453		3.44	<0.005	0.4	0.98	2	<10	<10	<0.5	<2	2.82	<0.5	29	49	72	1.48
98454		3.52	<0.005	0.3	1.76	3	<10	10	<0.5	<2	2.36	1.1	36	103	91	3.44
98455		3.99	<0.005	0.4	1.36	5	<10	<10	<0.5	<2	2.44	2.6	34	66	103	2.47
98456		3.63	<0.005	0.4	1.27	3	<10	<10	<0.5	<2	2.22	2.1	30	70	90	2.24
98457		4.55	<0.005	0.5	1.97	5	<10	<10	<0.5	<2	2.27	1.7	40	111	142	3.96
98458		4.29	<0.005	0.3	1.65	<2	20	<10	<0.5	<2	1.84	<0.5	38	82	155	2.95
98459		3.52	<0.005	0.3	1.80	<2	<10	<10	<0.5	<2	1.88	<0.5	34	94	131	3.07
98460		3.64	<0.005	<0.2	1.39	<2	10	10	<0.5	<2	2.71	<0.5	25	73	81	1.78
98461		3.60	<0.005	<0.2	2.24	5	20	10	<0.5	<2	3.24	<0.5	30	147	74	3.41
98462		3.62	0.010	0.6	1.22	2	<10	10	<0.5	<2	2.14	0.8	67	59	294	6.33
98463		4.03	<0.005	0.3	2.18	<2	<10	10	<0.5	<2	1.65	<0.5	26	84	107	3.54
98464		3.82	<0.005	2.5	1.42	<2	<10	10	<0.5	<2	1.26	0.9	62	63	655	5.31
98465		3.34	<0.005	0.3	1.63	2	<10	10	<0.5	<2	1.70	<0.5	28	101	122	2.78
98466		3.76	<0.005	<0.2	1.76	2	<10	10	<0.5	<2	2.01	1.4	28	113	82	2.73
98467		3.49	<0.005	<0.2	2.40	2	<10	10	<0.5	<2	3.07	2.1	31	176	64	3.93
98468		3.62	<0.005	<0.2	1.71	7	<10	10	<0.5	<2	2.82	<0.5	17	83	70	1.83
98469		3.56	<0.005	<0.2	1.33	<2	<10	<10	<0.5	<2	2.25	<0.5	18	68	84	1.23
98470		3.25	<0.005	<0.2	1.41	2	<10	10	<0.5	<2	2.83	<0.5	20	81	105	1.69
98471		3.35	0.044	<0.2	1.02	6	<10	70	<0.5	<2	2.38	<0.5	8	52	7	1.65
98472		2.71	0.010	<0.2	0.84	<2	<10	40	<0.5	<2	2.33	<0.5	8	52	8	1.50
98473		2.97	<0.005	<0.2	0.91	15	<10	70	<0.5	<2	1.94	<0.5	52	57	7	2.39
98474		2.93	<0.005	0.2	0.87	4	<10	80	<0.5	<2	2.59	<0.5	8	45	9	1.34
98475		2.86	0.065	<0.2	0.94	2	<10	80	<0.5	<2	2.16	<0.5	7	50	6	1.35
98476		2.44	0.006	0.2	0.53	<2	<10	70	<0.5	<2	1.52	<0.5	6	29	6	1.02
98477		3.45	<0.005	<0.2	1.76	19	<10	10	<0.5	<2	3.24	<0.5	38	39	172	3.79
98478		3.44	<0.005	0.5	1.75	14	<10	10	<0.5	<2	2.45	<0.5	38	35	163	3.36
98479		3.12	0.008	<0.2	1.00	7	<10	70	<0.5	<2	2.24	<0.5	8	66	7	1.55
98480		3.08	0.005	<0.2	1.14	6	<10	130	<0.5	<2	2.61	<0.5	8	34	10	1.63
98481		3.47	<0.005	0.4	1.66	<2	<10	10	<0.5	<2	1.63	<0.5	37	57	136	3.33
98482		3.33	<0.005	<0.2	1.82	<2	<10	10	<0.5	<2	1.66	<0.5	33	42	150	3.52
98483		3.73	<0.005	<0.2	4.32	7	<10	30	<0.5	<2	7.37	<0.5	33	161	39	5.55
98484		1.61	<0.005	<0.2	2.69	4	<10	<10	<0.5	<2	2.09	<0.5	30	129	154	3.50
98485		2.19	0.016	<0.2	2.71	<2	<10	<10	<0.5	<2	1.39	<0.5	30	127	193	3.58
98486		1.92	<0.005	<0.2	3.52	<2	20	<10	<0.5	<2	8.24	<0.5	29	157	177	4.36
98487		4.16	<0.005	<0.2	2.90	5	<10	<10	<0.5	<2	1.49	<0.5	27	140	126	3.79
98488		2.19	<0.005	<0.2	5.20	9	<10	10	<0.5	<2	9.84	<0.5	38	216	96	6.42
98489		0.55	<0.005	<0.2	3.09	3	10	10	<0.5	<2	6.66	<0.5	30	145	256	4.14



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## CERTIFICAT D'ANALYSE VO07121254

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
98091		<10	<1	0.04	<10	0.44	453	8	0.07	67	330	30	0.41	<2	6	25
98451		<10	<1	0.03	<10	0.54	517	14	0.09	70	340	59	0.84	<2	6	18
98452		<10	<1	0.03	<10	0.54	512	12	0.09	69	340	56	0.84	<2	6	18
98453		<10	<1	0.01	<10	0.28	409	7	0.06	73	330	12	0.43	<2	6	21
98454		<10	<1	0.03	<10	0.89	807	10	0.12	80	340	13	0.52	<2	9	18
98455		<10	<1	0.02	<10	0.48	539	6	0.07	67	320	14	0.58	<2	7	23
98456		<10	<1	0.02	<10	0.48	511	3	0.08	70	320	20	0.44	<2	6	22
98457		<10	<1	0.02	<10	1.04	831	1	0.08	89	350	40	0.73	2	9	29
98458		<10	<1	0.02	<10	0.78	617	<1	0.09	81	370	11	0.51	<2	8	30
98459		<10	<1	0.02	<10	0.82	653	<1	0.09	77	350	7	0.36	2	8	35
98460		<10	<1	0.03	<10	0.47	377	<1	0.08	83	260	25	0.29	<2	7	32
98461		<10	<1	0.03	<10	1.20	790	<1	0.10	87	270	6	0.16	<2	10	33
98462		<10	<1	0.04	<10	0.56	492	1	0.09	119	280	14	3.36	<2	6	21
98463		<10	<1	0.06	<10	1.34	580	<1	0.14	64	360	2	0.20	<2	9	19
98464		<10	<1	0.05	<10	0.84	478	1	0.10	110	360	27	2.25	<2	6	17
98465		<10	<1	0.05	<10	0.81	532	1	0.14	82	300	10	0.27	<2	9	28
98466		<10	<1	0.04	<10	0.96	544	<1	0.10	93	270	41	0.30	<2	8	23
98467		<10	<1	0.05	<10	1.54	833	<1	0.13	83	290	12	0.30	<2	11	21
98468		<10	<1	0.03	<10	0.74	343	<1	0.10	59	220	4	0.09	2	7	25
98469		<10	<1	0.01	<10	0.29	243	<1	0.06	67	220	2	0.11	<2	6	22
98470		<10	<1	0.02	<10	0.50	391	<1	0.10	61	210	4	0.13	2	7	26
98471		<10	<1	0.12	10	0.81	287	<1	0.13	39	260	4	0.44	<2	2	127
98472		<10	<1	0.08	10	0.59	235	<1	0.11	37	290	6	0.35	2	2	93
98473		<10	<1	0.12	10	0.66	207	<1	0.08	46	270	3	1.44	<2	2	57
98474		<10	<1	0.16	10	0.57	232	<1	0.09	38	290	7	0.33	<2	1	84
98475		<10	<1	0.23	10	0.60	229	<1	0.10	37	270	19	0.19	3	1	87
98476		<10	<1	0.10	10	0.29	145	<1	0.08	23	150	20	0.19	<2	1	47
98477		<10	<1	0.01	<10	0.91	835	1	0.10	46	320	<2	0.73	<2	9	56
98478		<10	<1	0.02	<10	0.78	746	<1	0.09	48	350	2	0.43	2	8	47
98479		<10	<1	0.12	10	0.78	273	<1	0.11	41	280	4	0.25	<2	2	77
98480		<10	<1	0.26	10	0.65	287	<1	0.15	38	270	10	0.35	2	1	107
98481		10	<1	0.04	<10	0.83	709	<1	0.14	63	340	10	0.50	<2	9	24
98482		<10	<1	0.02	<10	0.81	785	<1	0.11	49	340	2	0.27	<2	9	22
98483		10	<1	0.15	<10	3.46	1070	<1	0.03	93	230	<2	0.12	<2	10	16
98484		<10	<1	0.01	<10	1.93	520	<1	0.03	95	180	3	0.16	<2	4	19
98485		<10	<1	0.01	<10	1.94	509	<1	0.03	90	180	2	0.19	3	4	21
98486		<10	<1	0.02	<10	2.71	976	<1	0.03	86	180	4	0.06	<2	5	23
98487		<10	<1	0.01	<10	2.03	561	<1	0.04	89	200	2	0.06	<2	5	21
98488		10	<1	0.06	<10	4.15	1240	<1	0.03	110	210	3	0.05	<2	8	15
98489		<10	<1	0.06	<10	2.42	748	<1	0.03	84	170	<2	0.18	<2	5	15



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## CERTIFICAT D'ANALYSE VO07121254

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
98091		<20	0.29	<10	<10	57	<10	167
98451		<20	0.26	<10	<10	61	<10	2850
98452		<20	0.25	<10	<10	60	<10	2780
98453		<20	0.29	<10	<10	52	<10	44
98454		<20	0.33	<10	<10	98	<10	368
98455		<20	0.32	<10	<10	68	<10	818
98456		<20	0.32	<10	<10	67	<10	630
98457		<20	0.35	<10	<10	109	<10	598
98458		<20	0.34	<10	<10	91	<10	84
98459		<20	0.35	<10	<10	97	<10	122
98460		<20	0.30	<10	<10	63	<10	63
98461		<20	0.34	<10	<10	111	<10	44
98462		<20	0.23	<10	<10	62	<10	338
98463		<20	0.33	<10	<10	100	<10	64
98464		<20	0.27	<10	<10	68	<10	539
98465		<20	0.32	<10	<10	86	<10	48
98466		<20	0.28	<10	<10	91	<10	524
98467		<20	0.34	<10	<10	139	<10	841
98468		<20	0.28	<10	<10	64	<10	32
98469		<20	0.28	<10	<10	54	<10	13
98470		<20	0.26	<10	<10	60	<10	22
98471		<20	0.02	<10	<10	16	<10	25
98472		<20	0.03	<10	<10	18	<10	20
98473		<20	0.05	<10	<10	17	<10	19
98474		<20	0.01	<10	<10	12	<10	20
98475		<20	0.02	<10	<10	14	<10	49
98476		<20	0.01	<10	<10	8	<10	14
98477		<20	0.27	<10	<10	110	<10	48
98478		<20	0.30	<10	10	101	<10	48
98479		<20	0.06	<10	<10	20	<10	38
98480		<20	0.02	<10	<10	11	<10	23
98481		<20	0.31	<10	<10	100	<10	81
98482		<20	0.28	<10	<10	109	<10	51
98483		<20	0.20	<10	<10	102	<10	64
98484		<20	0.26	<10	<10	61	<10	40
98485		<20	0.26	<10	<10	59	<10	39
98486		<20	0.21	<10	10	79	<10	58
98487		<20	0.29	<10	<10	67	<10	44
98488		<20	0.24	<10	<10	130	<10	81
98489		<20	0.17	<10	<10	73	<10	52



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527 ROUTE 167

C.P. 4

CHIBOUGAMAU QC G8P 2K5

Page: 4 - A

Nombre total de pages: 4 (A - C)

Finalisée date: 11-DEC-2007

Compte: FORCHI

## CERTIFICAT D'ANALYSE VO07121254

Description échantillon	Méthode élément unités L.D.	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Poids reçu kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
98490		1.66	0.034	<0.2	4.60	<2	<10	<10	<0.5	2	3.21	<0.5	39	194	110	5.86
98491		2.01	<0.005	0.9	2.20	<2	<10	10	<0.5	2	1.18	<0.5	65	110	531	5.33
98492		3.32	0.007	0.2	3.93	14	<10	10	<0.5	3	5.13	<0.5	32	97	81	6.38
98493		3.55	0.005	<0.2	1.37	2	<10	<10	<0.5	<2	6.80	<0.5	11	56	53	2.82
98494		3.36	<0.005	0.2	4.06	5	<10	<10	<0.5	<2	3.74	<0.5	29	172	99	4.33
98495		3.07	<0.005	0.5	0.77	<2	<10	30	<0.5	<2	0.43	0.5	13	19	94	2.35
98496		2.94	<0.005	1.6	1.07	2	<10	40	<0.5	<2	0.68	<0.5	27	26	190	5.46
98497		3.26	<0.005	1.8	2.50	<2	<10	30	<0.5	<2	1.03	<0.5	41	159	215	7.58
98498		3.15	<0.005	<0.2	0.19	2	<10	<10	<0.5	<2	24.8	<0.5	2	2	8	1.09
98499		3.21	<0.005	<0.2	0.56	<2	10	10	<0.5	<2	0.52	<0.5	1	9	4	0.75
98500		3.33	<0.005	0.2	0.80	<2	<10	50	<0.5	<2	0.66	<0.5	4	10	62	1.32



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Page: 4 - B

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## CERTIFICAT D'ANALYSE VO07121254

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
98490		<10	<1	0.02	<10	3.62	1020	<1	0.02	117	230	3	0.05	<2	6	20
98491		<10	<1	0.02	<10	1.66	493	<1	0.10	111	180	12	1.64	<2	5	14
98492		10	<1	0.05	<10	2.68	963	<1	0.13	49	390	51	0.27	<2	25	18
98493		<10	<1	<0.01	<10	0.78	548	<1	0.06	32	170	2	0.45	<2	2	11
98494		10	1	0.02	<10	3.04	708	<1	0.14	104	150	<2	0.03	3	6	19
98495		<10	1	0.15	10	0.39	169	4	0.18	23	120	35	1.06	<2	2	10
98496		<10	<1	0.15	10	0.73	274	7	0.16	43	230	34	3.11	<2	3	13
98497		10	1	0.17	10	2.36	679	2	0.14	104	650	266	3.58	<2	9	15
98498		<10	<1	0.02	<10	0.21	5680	1	0.03	3	20	5	0.6	<2	<1	52
98499		<10	<1	0.21	10	0.09	216	1	0.16	1	30	9	0.10	<2	1	12
98500		<10	2	0.19	20	0.24	213	3	0.18	7	260	4	0.39	<2	1	29



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Page: 4 - C

Nombre total de pages: 4 (A - C)

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Compte: FORCHI

## CERTIFICAT D'ANALYSE VO07121254

Description échantillon	Méthode élément unités L.D.	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
98490		<20	0.27	<10	<10	88	<10	83
98491		<20	0.14	<10	<10	59	<10	95
98492		<20	0.28	<10	<10	210	<10	72
98493		<20	0.07	<10	<10	29	<10	21
98494		<20	0.17	<10	<10	98	<10	50
98495		<20	0.05	<10	<10	15	<10	174
98496		<20	0.08	<10	<10	24	<10	204
98497		<20	0.20	<10	<10	86	<10	116
98498		<20	0.01	<10	<10	1	<10	8
98499		<20	0.02	<10	<10	2	<10	9
98500		<20	0.10	<10	<10	12	<10	26



# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE

Client : Britannica Resources Corp.  
 Projet  
 Type d'échantillon: Carotte / Core  
 Soumis par : Claude Larouche

CERTIFICAT D'ANALYSES  
 Rapport No. B07-1313  
 27-Sep-07

## RÉSULTATS

Symbole d'analyte	Au
Symbole d'unité	ppm
Limite de détection	0.01
Méthode	PYRO-SAA
1 98141	< 0.01
2 98142	< 0.01
3 98143	< 0.01
4 98144	< 0.01
5 98145	< 0.01
6 98146	< 0.01
7 98147	< 0.01
8 98148	< 0.01
9 98149	< 0.01
10 98150	< 0.01
11 98201	< 0.01
12 98202	< 0.01
13 98203	0.01

Linda Melnbardis B. Sc.  
 Présidente

Ordre des chimistes du Québec 1982-119

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# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE

Client : Britannica Resources Corp.  
 Projet :  
 Type d'échantillon : Carotte / Core  
 Soumis par : Claude Larouche

CERTIFICAT D'ANALYSES  
 Rapport No. B07-1313  
 27-Sep-07

## CONTRÔLE DE QUALITÉ

Symbole d'analyte	Au
Symbole d'unité	ppm
Limite de détection	0.01
Méthode	PYRO-SAA
BLANC_PREP Échantillon CQ	< 0.01
BLANC_PREP Échantillon CQ	< 0.01
OxI54 Meas	1.86
OxI54 Cert	1.868

## MÉTHODES D'ANALYSE

Code de méthode	Description
PYRO-SAA	Pyroanalyse - Spectrométrie d'absorption atomique

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Présidente

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assay@accurassay.com

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Monday, June 9, 2008

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526 Road 167, Box 4  
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G8P2K5  
Ph#: (418) 748-3977  
Fax#: (418) 748-4432, (418) 770-7688  
Email#: chibougamau.drilling@sympatico.ca

Date Received: Aug 13, 2007  
Date Completed: Sep 7, 2007

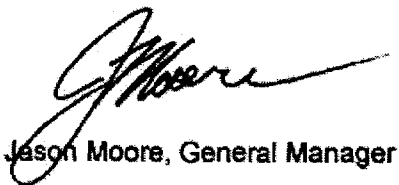
Job #: 200742892  
Reference:

Sample #: 18 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
11678	512701	26										
211679	512702	16										
11680	512703	30										
11681	512704	32										
211682	512705	13										
11683	512706	21										
11684	512707	16										
211685	512708	24										
11686	512709	21										
211687	512710	53										
211688 Dup	512710	41										
11689	512711	18										
211690	512713	19										
211691	512714	14										
11692	512715	41										
211693	512716	16										
11694	512717	16										
11695	512719	18										
211696	512721	53										

PROCEDURE CODES: AL4AU3, AL4ICPAR

Certified By:



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 Phone#: (418) 748-3977  
 Fax#: (418) 748-4432, (418) 770-7688  
 Email#: chibougamau.drilling@sympatico.ca

 Date Received: Aug 24, 2007  
 Date Completed: Oct 18, 2007

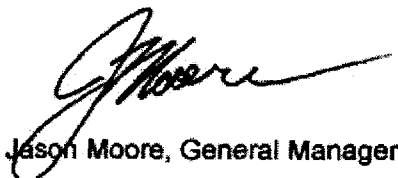
 Job #: 200743138  
 Reference:

Sample #: 58 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
226393	98151	11										
226394	98152	8										
226395	98153	<5										
226396	98154	9										
226397	98155	<5										
226398	98156	<5										
226399	98157	<5										
226400	98158	<5										
226401	98159	<5										
226402	98160	<5										
226403 Dup	98160	<5										
226404	98161	<5										
226405	98162	<5										
226406	98163	<5										
226407	98164	7										
226408	98165	<5										
226409	98166	<5										
226410	98167	6										
226411	98168	6										
226412	98169	<5										
226413	98170	6										
226414 Dup	98170	9										
226415	98171	12										

PROCEDURE CODES: AL4AU3, AL4ICPMA

Certified By:


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 Fax#: (418) 748-4432, (418) 770-7688  
 Email#: chibougamau.drilling@sympatico.ca

Date Received: Aug 24, 2007

Date Completed: Oct 18, 2007

Job #: 200743138

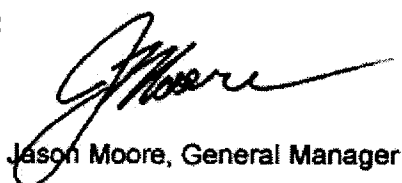
Reference:

Sample #: 58 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
226416	98172	8										
226417	98173	37										
226418	98174	8										
226419	98175	25										
226420	98176	48										
226421	98177	24										
226422	98178	6										
226423	98179	<5										
226424	98180	9										
226425 Dup	98180	6										
226426	98181	5										
226427	98182	<5										
226428	98183	<5										
226429	98184	<5										
226430	98185	6										
226431	98186	<5										
226432	98187	<5										
226433	98188	<5										
226434	98189	<5										
226435	98190	30										
226436 Dup	98190	30										
226437	98191	<5										
226438	98192	6										

PROCEDURE CODES: AL4AU3, AL4ICPMA

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 Phone#: (418) 748-3977  
 Fax#: (418) 748-4432, (418) 770-7688  
 Email#: chibougamau.drilling@sympatico.ca

 Date Received: Aug 24, 2007  
 Date Completed: Oct 18, 2007

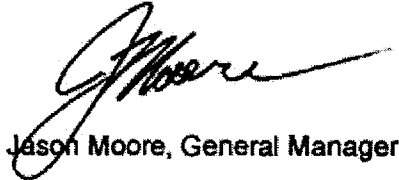
 Job #: 200743138  
 Reference:

Sample #: 58 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
26439	98193	13										
26440	98194	9										
26441	98195	7										
26442	98196	<5										
26443	98197	7	35	<10								
26444	98198	14										
26445	98199	12										
26446	98200	10										
26447 Dup	98200	9										
26448	98201											No Sample Received
26449	98202											No Sample Received
26450	98203											No Sample Received
26451	98204											No Sample Received
26452	98205											No Sample Received
26453	98206											No Sample Received
26454	98207											No Sample Received
26455	98208											No Sample Received

PROCEDURE CODES: AL4AU3, AL4ICPMA

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 Fax#: (418) 748-4432, (418) 770-7688  
 Email#: chibougamau.drilling@sympatico.ca

Date Received: Aug 24, 2007  
 Date Completed: Oct 18, 2007

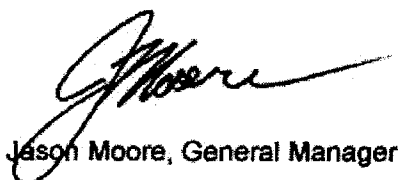
Job #: 200743138  
 Reference:

Sample #: 58 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
26393	98151	11										
226394	98152	8										
26395	98153	<5										
26396	98154	9										
226397	98155	<5										
26398	98156	<5										
26399	98157	<5										
226400	98158	<5										
26401	98159	<5										
226402	98160	<5										
226403 Dup	98160	<5										
26404	98161	<5										
226405	98162	<5										
26406	98163	<5										
26407	98164	7										
226408	98165	<5										
26409	98166	<5										
26410	98167	6										
226411	98168	6										
26412	98169	<5										
26413	98170	6										
226414 Dup	98170	9										
26415	98171	12										

PROCEDURE CODES: AL4AU3, AL4ICPMA

Certified By:



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Email#: chibougamau.drilling@sympatico.ca

Date Received: Aug 24, 2007

Date Completed: Oct 18, 2007

Job #: 200743138

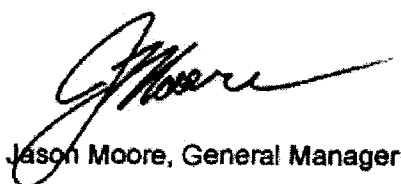
Reference:

Sample #: 58 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
226416	98172	8										
226417	98173	37										
226418	98174	8										
226419	98175	25										
226420	98176	48										
226421	98177	24										
226422	98178	6										
226423	98179	<5										
226424	98180	9										
226425 Dup	98180	6										
226426	98181	5										
226427	98182	<5										
226428	98183	<5										
226429	98184	<5										
226430	98185	6										
226431	98186	<5										
226432	98187	<5										
226433	98188	<5										
226434	98189	<5										
226435	98190	30										
226436 Dup	98190	30										
226437	98191	<5										
226438	98192	6										

PROCEDURE CODES: AL4AU3, AL4ICPMA

Certified By:


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G8P2K5  
Ph#: (418) 748-3977  
Fax#: (418) 748-4432, (418) 770-7688  
Email#: chibougamau.drilling@sympatico.ca

Date Received: Aug 24, 2007  
Date Completed: Oct 18, 2007

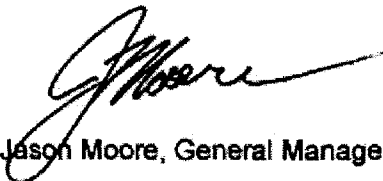
Job #: 200743138  
Reference:

Sample #: 58 Core

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
26439	98193	13										
226440	98194	9										
26441	98195	7										
26442	98196	<5										
226443	98197	7	35	<10								
26444	98198	14										
226445	98199	12										
226446	98200	10										
26447 Dup	98200	9										
226448	98201											No Sample Received
226449	98202											No Sample Received
26450	98203											No Sample Received
226451	98204											No Sample Received
26452	98205											No Sample Received
26453	98206											No Sample Received
226454	98207											No Sample Received
26455	98208											No Sample Received

PROCEDURE CODES: AL4AU3, AL4ICPMA

Certified By:

  
Jason Moore, General Manager

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# Certificate of Analysis

Monday, June 9, 2008

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 526 Road 167, Box 4  
 Chibougamau, QC, CAN  
 G8P2K5

 Ph#: (418) 748-3977  
 Fax#: (418) 748-4432, (418) 770-7688  
 Email#: chibougamau.drilling@sympatico.ca

Date Received: Oct 16, 2007

Date Completed: Oct 23, 2007

Job #: 200743929

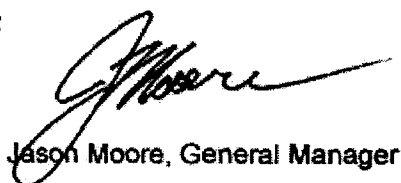
Reference:

Sample #: 42 Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
71854	98101	8										
271855	98102	12										
71856	98103	<5										
71857	98104	<5										
271858	98105	<5										
71859	98106	<5										
271860	98107	9										
271861	98108	<5										
71862	98109	<5										
271863	98110	<5										
271864	98111	<5										
71865 Dup	98111	<5										
271866	98112	6										
71867	98113	5										
71868	98114	20										
271869	98115	<5										
71870	98116	<5										
71871	98117	<5										
271872	98118	<5										
71873	98119	<5										
71874	98120	6										
271875	98121	<5										
71876 Dup	98121	<5										

PROCEDURE CODES: AL4AU3, AL4ICPMA

Certified By:


 Jason Moore, General Manager

 The results included on this report relate only to the items tested  
 The Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory



# Certificate of Analysis

Monday, June 9, 2008

Chibougamau Drilling  
 526 Road 167, Box 4  
 Chibougamau, QC, CAN  
 G8P2K5  
 Ph#: (418) 748-3977  
 Fax#: (418) 748-4432, (418) 770-7688  
 Email#: chibougamau.drilling@sympatico.ca

Date Received: Oct 16, 2007  
 Date Completed: Oct 23, 2007

Job #: 200743929  
 Reference:

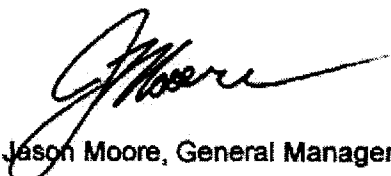
Sample #: 42 Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
71877	98122	<5										
271878	98123	<5										
71879	98124	<5										
71880	98125	<5										
271881	98126	<5										
71882	98127	<5										
271883	98128	<5										
271884	98129	41										
71885	98130	24										
271886	98131	<5										
271887 Dup	98131	5										
71888	98132	<5										
271889	98133	<5										
271890	98134	<5										
71891	98135	<5										
271892	98136	<5										
71893	98137	<5										
71894	98138	<5										
271895	98139	<5										
71896	98140	<5										
71897	98141	<5										
271898 Dup	98141	<5										
71899	98142											

No Sample Received

PROCEDURE CODES: AL4AU3, AL4ICPMA

Certified By:



Jason Moore, General Manager

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 approval of the laboratory

AL917-0205-06/09/2008 11:17 AM

# Certificate of Analysis

Monday, June 9, 2008

 Chibougamau Drilling  
 526 Road 167, Box 4  
 Chibougamau, QC, CAN  
 G8P2K5

 Ph#: (418) 748-3977  
 Fax#: (418) 748-4432, (418) 770-7688  
 Email#: chibougamau.drilling@sympatico.ca

 Date Received: Oct 16, 2007  
 Date Completed: Oct 23, 2007

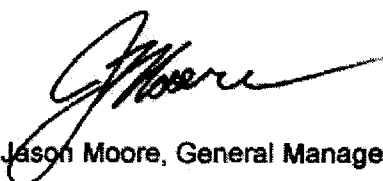
 Job #: 200743929  
 Reference:

Sample #: 42 Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
71854	98101	8										
271855	98102	12										
71856	98103	<5										
71857	98104	<5										
271858	98105	<5										
71859	98106	<5										
71860	98107	9										
271861	98108	<5										
71862	98109	<5										
271863	98110	<5										
271864	98111	<5										
71865 Dup	98111	<5										
271866	98112	6										
71867	98113	5										
71868	98114	20										
271869	98115	<5										
71870	98116	<5										
71871	98117	<5										
271872	98118	<5										
71873	98119	<5										
71874	98120	6										
271875	98121	<5										
71876 Dup	98121	<5										

PROCEDURE CODES: AL4AU3, AL4ICPMA

Certified By:


  
 Jason Moore, General Manager

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# Certificate of Analysis

Monday, June 9, 2008

 Chibougamau Drilling  
 526 Road 167, Box 4  
 Chibougamau, QC, CAN  
 G8P2K5

 Ph#: (418) 748-3977  
 Fax#: (418) 748-4432, (418) 770-7688  
 Email#: chibougamau.drilling@sympatico.ca

 Date Received: Oct 16, 2007  
 Date Completed: Oct 23, 2007

 Job #: 200743929  
 Reference:

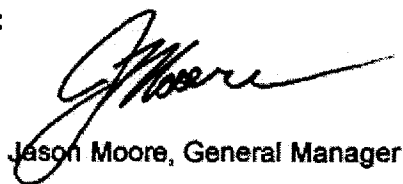
Sample #: 42      Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
71877	98122	<5										
271878	98123	<5										
71879	98124	<5										
71880	98125	<5										
271881	98126	<5										
71882	98127	<5										
271883	98128	<5										
271884	98129	41										
71885	98130	24										
271886	98131	<5										
271887 Dup	98131	5										
71888	98132	<5										
271889	98133	<5										
71890	98134	<5										
71891	98135	<5										
271892	98136	<5										
71893	98137	<5										
71894	98138	<5										
271895	98139	<5										
71896	98140	<5										
71897	98141	<5										
271898 Dup	98141	<5										
71899	98142											

No Sample Received

PROCEDURE CODES: AL4AU3, AL4ICPMA

Certified By:


 Jason Moore, General Manager

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AL917-0205-06/09/2008 11:17 AM



1046 Gorham Street  
Thunder Bay, ON  
Canada P7B 5X5


Tel: (807) 626-1630  
Fax: (807) 622-7571

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assay@accurassay.com

Chibougamau Drilling  
Date Created: 07-10-27 11:17:43 PM  
Job Number: 200743929  
Date Received: Oct 16, 2007  
Number of Samples: 42  
Type of Sample: Rock  
Date Completed: Oct 23, 2007  
Project ID:

\* The results included on this report relate only to the items tested  
\* This Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.  
\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
271854	98101	4	4.71	9	22	1	7	4.33	4	54	116	173	6.18	0.55	10	2.13	1658	<1	76	296	191	9	<5	<10	92	5253	<1	239	<10	14	105
271855	98102	4	4.60	6	34	1	5	4.35	6	76	179	289	7.89	0.51	10	2.07	1858	7	104	318	263	10	<5	<10	90	5060	<1	238	<10	15	237
271856	98103	2	3.77	3	16	1	5	4.42	<4	51	127	144	5.69	0.43	8	1.61	1781	3	65	274	178	<5	<5	<10	66	5153	5	210	<10	13	92
271857	98104	5	4.47	4	212	1	10	3.93	<4	45	141	126	5.66	0.74	12	2.16	1482	<1	63	311	187	<5	<5	<10	157	5623	<1	243	<10	16	81
271858	98105	6	5.34	6	136	1	4	4.60	7	61	124	239	6.88	0.85	14	2.59	2090	<1	82	300	318	7	<5	<10	146	5928	<1	290	<10	18	417
271859	98106	5	5.03	3	85	1	7	4.78	4	53	185	202	6.42	0.80	13	2.91	1589	<1	103	531	233	8	<5	<10	252	5784	<1	250	<10	16	100
271860	98107	5	4.45	5	91	1	9	4.68	4	61	176	377	6.62	0.58	8	2.40	1570	<1	103	351	204	<5	<5	<10	85	5207	<1	235	<10	15	89
271861	98108	4	5.45	5	51	1	7	5.31	4	54	194	326	6.40	0.54	9	2.04	1646	2	79	287	204	<5	<5	<10	88	5496	<1	252	<10	16	76
271862	98109	<1	4.89	3	52	1	3	3.70	6	49	146	181	5.18	0.55	12	1.51	1426	2	73	288	161	<5	<5	<10	104	5174	<1	236	15	17	1227
271863	98110	<1	5.49	2	75	1	7	4.07	6	55	166	205	6.39	0.69	17	1.93	2464	2	76	302	211	8	<5	<10	86	5765	<1	267	16	17	1390
271864	98111	4	4.73	6	34	1	8	4.06	<4	52	119	156	5.65	0.53	13	1.71	2190	2	66	265	185	8	<5	<10	50	4974	2	223	<10	15	132
271865	98111	2	5.02	8	33	1	2	4.10	<4	54	127	168	5.86	0.73	14	1.77	2256	2	69	275	179	<5	<5	<10	49	5113	1	227	<10	16	138
271866	98112	5	5.35	10	62	1	5	4.71	<4	50	199	137	5.73	0.87	16	1.93	1528	8	71	297	223	7	<5	<10	73	5446	<1	244	<10	17	126
271867	98113	6	5.46	19	133	1	3	3.63	6	33	123	482	5.19	0.90	24	2.65	1527	3	72	326	386	6	<5	<10	85	4913	<1	240	10	14	891
271868	98114	3	5.11	11	125	2	2	5.82	5	42	199	158	6.09	0.90	18	3.15	1245	<1	105	547	418	7	<5	<10	109	4142	<1	152	<10	14	305
271869	98115	<1	4.30	4	41	<1	2	6.68	<4	37	224	72	3.65	0.68	8	2.02	834	<1	122	123	159	<5	<5	<10	56	2632	<1	120	<10	8	118
271870	98116	<1	4.99	<2	83	<1	5	7.39	<4	40	321	88	4.01	0.90	7	2.34	886	<1	147	138	117	7	<5	<10	65	2888	<1	152	<10	9	89
271871	98117	6	5.24	4	70	1	8	4.02	<4	54	144	146	5.35	0.80	17	2.05	1387	<1	79	306	175	8	<5	<10	82	5341	3	245	<10	15	73
271872	98118	3	5.41	2	126	2	1	4.08	<4	50	200	143	5.26	0.69	14	2.25	1458	<1	82	385	162	<5	<5	<10	231	4969	<1	233	<10	15	76
271873	98119	4	5.37	2	23	1	4	5.96	<4	50	145	116	5.60	0.61	11	1.80	1507	<1	71	261	165	<5	<5	<10	54	5273	<1	239	<10	17	67
271874	98120	3	3.99	3	26	1	<1	4.14	<4	45	207	78	4.95	0.42	8	1.53	1281	1	58	269	148	9	<5	<10	46	4780	<1	228	<10	15	67
271875	98121	<1	5.21	3	34	1	<1	4.60	4	55	126	169	6.48	0.49	14	2.03	1645	3	70	314	232	<5	<5	<10	65	5367	<1	259	<10	17	80

Certified By:   
Derek Demianiuk, H.Bsc.

Chibougamau Drilling  
Date Created: 07-10-27 11:17:43 PM  
Job Number: 200743929  
Date Received: Oct 16, 2007  
Number of Samples: 42  
Type of Sample: Rock  
Date Completed: Oct 23, 2007  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
271876	98121	3	5.11	5	32	1	6	4.43	4	57	124	175	6.51	0.63	16	2.09	1642	2	71	326	256	5	<5	<10	59	5425	<1	258	<10	17	82
271877	98122	4	4.84	5	19	1	8	5.16	<4	50	178	99	5.92	0.38	11	1.84	1461	1	62	271	194	6	<5	<10	56	5125	<1	235	<10	16	67
271878	98123	4	3.83	4	17	1	17	4.10	<4	44	129	68	4.70	0.41	10	1.54	1219	<1	59	280	161	<5	<5	<10	46	4670	<1	207	<10	15	52
271879	98124	5	4.28	6	32	1	6	4.94	<4	45	177	106	5.24	0.43	11	1.74	1409	1	65	256	167	5	<5	<10	54	4729	<1	220	<10	15	62
271880	98125	3	4.90	7	23	1	6	6.11	<4	49	177	105	5.42	0.47	9	1.80	1431	2	76	265	189	7	<5	<10	67	5395	<1	233	<10	16	60
271881	98126	5	4.82	15	54	1	8	4.53	<4	54	160	148	5.70	0.50	17	2.30	1535	<1	69	324	178	<5	<5	<10	90	5627	3	271	<10	19	78
271882	98127	6	5.33	18	84	1	3	6.16	<4	49	102	123	5.44	0.66	20	1.93	1547	2	70	277	189	7	<5	<10	85	4782	3	255	<10	15	184
271883	98128	<1	4.71	4	346	2	<1	2.55	<4	8	213	11	1.38	0.79	17	0.64	277	<1	46	263	50	<5	<5	<10	316	808	1	28	<10	5	12
271884	98129	6	4.16	9	96	1	12	4.97	6	40	182	270	8.05	0.77	17	3.22	1415	<1	91	310	328	9	<5	<10	82	3639	<1	162	<10	13	349
271885	98130	4	5.08	9	102	2	9	4.37	7	56	170	435	9.97	0.81	15	2.41	1089	8	131	676	381	8	<5	<10	111	4250	<1	160	<10	16	75
271886	98131	5	5.19	6	90	1	11	5.18	4	37	119	299	7.17	0.70	17	2.65	1217	2	110	1302	242	<5	<5	<10	155	5944	<1	173	<10	24	80
271887	98131	4	3.65	3	57	1	18	4.39	4	36	106	296	6.87	0.40	15	2.47	1098	1	99	1295	225	<5	<5	<10	107	5395	<1	150	<10	21	75
271888	98132	5	4.12	4	118	1	1	4.56	<4	28	169	264	5.94	0.58	14	2.61	1124	<1	79	1024	195	6	<5	<10	142	5037	<1	145	<10	19	74
271889	98133	3	4.29	<2	149	1	7	2.97	<4	47	144	118	4.78	0.65	14	1.77	1149	<1	74	345	150	7	<5	<10	144	4617	1	198	<10	13	64
271890	98134	4	4.27	3	45	1	12	4.34	<4	50	213	129	5.40	0.55	13	1.71	1293	2	65	290	174	5	<5	<10	157	5165	<1	217	<10	15	49
271891	98135	<1	4.14	7	61	2	18	3.63	10	73	183	206	>10.00	0.56	14	1.38	1074	20	159	190	526	12	<5	<10	71	3283	<1	151	<10	9	155
271892	98136	4	5.15	4	122	1	4	4.22	5	60	237	442	7.66	0.86	15	2.64	1274	1	95	407	281	9	<5	<10	92	5388	<1	211	<10	17	108
271893	98137	3	5.67	9	117	1	<1	4.83	18	48	261	275	5.55	0.95	16	2.80	1378	<1	87	319	2543	7	<5	<10	88	5460	<1	249	40	18	3839
271894	98138	5	5.48	5	28	1	11	5.76	<4	51	385	67	4.37	0.37	10	2.06	1077	<1	145	230	176	7	<5	<10	57	4765	3	200	<10	12	76
271895	98139	2	4.66	3	25	1	6	4.26	<4	50	267	80	3.99	0.33	10	2.00	1002	<1	133	214	125	<5	<5	<10	51	4248	<1	185	<10	11	69
271896	98140	2	6.35	4	80	1	2	4.88	<4	69	465	180	5.42	0.51	16	2.24	1168	2	179	220	184	9	<5	<10	95	4503	<1	212	<10	13	101
271897	98141	3	5.53	3	23	1	13	4.17	<4	50	288	91	4.66	0.30	12	2.12	1008	<1	140	215	149	6	<5	<10	86	4298	<1	202	<10	12	61

Certified By:   
Derek Demianiuk, H.Bsc.



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Thunder Bay, ON  
Canada P7B 5X5

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Fax: (807) 622-7571

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assay@accurassay.com

Chibougamau Drilling  
Date Created: 07-10-27 11:17:43 PM  
Job Number: 200743929  
Date Received: Oct 16, 2007  
Number of Samples: 42  
Type of Sample: Rock  
Date Completed: Oct 23, 2007  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
271898	98141	6	3.35	4	12	1	2	2.97	<4	50	249	95	4.27	0.18	12	1.92	879	<1	137	211	133	5	<5	<10	46	3990	<1	165	<10	10	53
271899	98142	No Sample Received																													

Certified By:   
Derek Demianiuk, H.Bsc.



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Thunder Bay, ON  
Canada P7B 5X5

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Chibougamau Drilling  
Date Created: 07-10-27 11:17:43 PM  
Job Number: 200743929  
Date Received: Oct 16, 2007  
Number of Samples: 42  
Type of Sample: Rock  
Date Completed: Oct 23, 2007  
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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
271854	98101	4	4.71	9	22	1	7	4.33	4	54	116	173	6.18	0.55	10	2.13	1658	<1	76	296	191	9	<5	<10	92	5253	<1	239	<10	14	105
271855	98102	4	4.60	6	34	1	5	4.35	6	76	179	289	7.89	0.51	10	2.07	1858	7	104	318	263	10	<5	<10	90	5060	<1	238	<10	15	237
271856	98103	2	3.77	3	16	1	5	4.42	<4	51	127	144	5.69	0.43	8	1.61	1781	3	65	274	178	<5	<5	<10	66	5153	5	210	<10	13	92
271857	98104	5	4.47	4	212	1	10	3.93	<4	45	141	126	5.66	0.74	12	2.16	1482	<1	63	311	187	<5	<5	<10	157	5623	<1	243	<10	16	81
271858	98105	6	5.34	6	136	1	4	4.60	7	61	124	239	6.88	0.85	14	2.59	2090	<1	82	300	318	7	<5	<10	146	5928	<1	290	<10	18	417
271859	98106	5	5.03	3	85	1	7	4.78	4	53	185	202	6.42	0.80	13	2.91	1589	<1	103	531	233	8	<5	<10	252	5784	<1	250	<10	16	100
271860	98107	5	4.45	5	91	1	9	4.68	4	61	176	377	6.62	0.58	8	2.40	1570	<1	103	351	204	<5	<5	<10	85	5207	<1	235	<10	15	89
271861	98108	4	5.45	5	51	1	7	5.31	4	54	194	326	6.40	0.54	9	2.04	1646	2	79	287	204	<5	<5	<10	88	5496	<1	252	<10	16	76
271862	98109	<1	4.89	3	52	1	3	3.70	6	49	146	181	5.18	0.55	12	1.51	1426	2	73	288	161	<5	<5	<10	104	5174	<1	236	15	17	1227
271863	98110	<1	5.49	2	75	1	7	4.07	6	55	166	205	6.39	0.69	17	1.93	2464	2	76	302	211	8	<5	<10	86	5765	<1	267	16	17	1390
271864	98111	4	4.73	6	34	1	8	4.06	<4	52	119	156	5.65	0.53	13	1.71	2190	2	66	265	185	8	<5	<10	50	4974	2	223	<10	15	132
271865	98111	2	5.02	8	33	1	2	4.10	<4	54	127	168	5.86	0.73	14	1.77	2256	2	69	275	179	<5	<5	<10	49	5113	1	227	<10	16	138
271866	98112	5	5.35	10	62	1	5	4.71	<4	50	199	137	5.73	0.87	16	1.93	1528	8	71	297	223	7	<5	<10	73	5446	<1	244	<10	17	126
271867	98113	6	5.46	19	133	1	3	3.63	6	33	123	482	5.19	0.90	24	2.65	1527	3	72	326	386	6	<5	<10	85	4913	<1	240	10	14	891
271868	98114	3	5.11	11	125	2	2	5.82	5	42	199	158	6.09	0.90	18	3.15	1245	<1	105	547	418	7	<5	<10	109	4142	<1	152	<10	14	305
271869	98115	<1	4.30	4	41	<1	2	6.68	<4	37	224	72	3.65	0.68	8	2.02	834	<1	122	123	159	<5	<5	<10	56	2632	<1	120	<10	8	118
271870	98116	<1	4.99	<2	83	<1	5	7.39	<4	40	321	88	4.01	0.90	7	2.34	886	<1	147	138	117	7	<5	<10	65	2888	<1	152	<10	9	89
271871	98117	6	5.24	4	70	1	8	4.02	<4	54	144	146	5.35	0.80	17	2.05	1387	<1	79	306	175	8	<5	<10	82	5341	3	245	<10	15	73
271872	98118	3	5.41	2	126	2	1	4.08	<4	50	200	143	5.26	0.69	14	2.25	1458	<1	82	385	162	<5	<5	<10	231	4969	<1	233	<10	15	76
271873	98119	4	5.37	2	23	1	4	5.96	<4	50	145	116	5.60	0.61	11	1.80	1507	<1	71	261	165	<5	<5	<10	54	5273	<1	239	<10	17	67
271874	98120	3	3.99	3	26	1	<1	4.14	<4	45	207	78	4.95	0.42	8	1.53	1281	1	58	269	148	9	<5	<10	46	4780	<1	228	<10	15	67
271875	98121	<1	5.21	3	34	1	<1	4.60	4	55	126	169	6.48	0.49	14	2.03	1645	3	70	314	232	<5	<5	<10	65	5367	<1	259	<10	17	80

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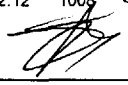
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Chibougamau Drilling  
Date Created: 07-10-27 11:17:43 PM  
Job Number: 200743929  
Date Received: Oct 16, 2007  
Number of Samples: 42  
Type of Sample: Rock  
Date Completed: Oct 23, 2007  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
271876	98121	3	5.11	5	32	1	6	4.43	4	57	124	175	6.51	0.63	16	2.09	1642	2	71	326	256	5	<5	<10	59	5425	<1	258	<10	17	82
271877	98122	4	4.84	5	19	1	8	5.16	<4	50	178	99	5.92	0.38	11	1.84	1461	1	62	271	194	6	<5	<10	56	5125	<1	235	<10	16	67
271878	98123	4	3.83	4	17	1	17	4.10	<4	44	129	68	4.70	0.41	10	1.54	1219	<1	59	280	161	<5	<5	<10	46	4670	<1	207	<10	15	52
271879	98124	5	4.28	6	32	1	6	4.94	<4	45	177	106	5.24	0.43	11	1.74	1409	1	65	256	167	5	<5	<10	54	4729	<1	220	<10	15	62
271880	98125	3	4.90	7	23	1	6	6.11	<4	49	177	105	5.42	0.47	9	1.80	1431	2	76	265	189	7	<5	<10	67	5395	<1	233	<10	16	60
271881	98126	5	4.82	15	54	1	8	4.53	<4	54	160	148	5.70	0.50	17	2.30	1535	<1	69	324	178	<5	<5	<10	90	5627	3	271	<10	19	78
271882	98127	6	5.33	18	84	1	3	6.16	<4	49	102	123	5.44	0.66	20	1.93	1547	2	70	277	189	7	<5	<10	85	4782	3	255	<10	15	184
271883	98128	<1	4.71	4	346	2	<1	2.55	<4	8	213	11	1.38	0.79	17	0.64	277	<1	46	263	50	<5	<5	<10	316	808	1	28	<10	5	12
271884	98129	6	4.16	9	96	1	12	4.97	6	40	182	270	8.05	0.77	17	3.22	1415	<1	91	310	328	9	<5	<10	82	3639	<1	162	<10	13	349
271885	98130	4	5.08	9	102	2	9	4.37	7	56	170	435	9.97	0.81	15	2.41	1089	8	131	676	381	8	<5	<10	111	4250	<1	160	<10	16	75
271886	98131	5	5.19	6	90	1	11	5.18	4	37	119	299	7.17	0.70	17	2.65	1217	2	110	1302	242	<5	<5	<10	155	5944	<1	173	<10	24	80
271887	98131	4	3.65	3	57	1	18	4.39	4	36	106	296	6.87	0.40	15	2.47	1098	1	99	1295	225	<5	<5	<10	107	5395	<1	150	<10	21	75
271888	98132	5	4.12	4	118	1	1	4.56	<4	28	169	264	5.94	0.58	14	2.61	1124	<1	79	1024	195	6	<5	<10	142	5037	<1	145	<10	19	74
271889	98133	3	4.29	<2	149	1	7	2.97	<4	47	144	118	4.78	0.65	14	1.77	1149	<1	74	345	150	7	<5	<10	144	4617	1	198	<10	13	64
271890	98134	4	4.27	3	45	1	12	4.34	<4	50	213	129	5.40	0.55	13	1.71	1293	2	65	290	174	5	<5	<10	157	5165	<1	217	<10	15	49
271891	98135	<1	4.14	7	61	2	18	3.63	10	73	183	206	>10.00	0.56	14	1.38	1074	20	159	190	526	12	<5	<10	71	3283	<1	151	<10	9	155
271892	98136	4	5.15	4	122	1	4	4.22	5	60	237	442	7.66	0.86	15	2.64	1274	1	95	407	281	9	<5	<10	92	5388	<1	211	<10	17	108
271893	98137	3	5.67	9	117	1	<1	4.83	18	48	261	275	5.55	0.95	16	2.80	1378	<1	87	319	2543	7	<5	<10	88	5460	<1	249	40	18	3839
271894	98138	5	5.48	5	28	1	11	5.76	<4	51	385	67	4.37	0.37	10	2.06	1077	<1	145	230	176	7	<5	<10	57	4765	3	200	<10	12	76
271895	98139	2	4.66	3	25	1	6	4.26	<4	50	267	80	3.99	0.33	10	2.00	1002	<1	133	214	125	<5	<5	<10	51	4248	<1	185	<10	11	69
271896	98140	2	6.35	4	80	1	2	4.88	<4	69	465	180	5.42	0.51	16	2.24	1168	2	179	220	184	9	<5	<10	95	4503	<1	212	<10	13	101
271897	98141	3	5.53	3	23	1	13	4.17	<4	50	288	91	4.66	0.30	12	2.12	1008	<1	140	215	149	6	<5	<10	86	4298	<1	202	<10	12	61

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Chibougamau Drilling  
Date Created: 07-10-27 11:17:43 PM  
Job Number: 200743929  
Date Received: Oct 16, 2007  
Number of Samples: 42  
Type of Sample: Rock  
Date Completed: Oct 23, 2007  
Project ID:

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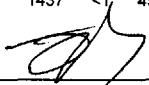
Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
271898	98141	6	3.35	4	12	1	2	2.97	<4	50	249	95	4.27	0.18	12	1.92	879	<1	137	211	133	5	<5	<10	46	3990	<1	165	<10	10	53
271899	98142	No Sample Received																													

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Chibougamau Drilling  
Date Created: 07-10-27 11:07:44 PM  
Job Number: 200743138  
Date Received: Aug 24, 2007  
Number of Samples: 58  
Type of Sample: Core  
Date Completed: Oct 18, 2007  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
226393	98151	<1	4.19	37	7	<1	6	6.75	4	53	217	132	7.44	0.02	14	3.23	1176	<1	176	140	236	6	<5	<10	41	1522	<1	181	<10	9	52
226394	98152	<1	3.24	73	7	<1	8	>10.00	<4	34	131	90	5.15	0.02	10	2.29	1635	<1	119	<100	162	<5	<5	<10	91	1006	2	117	<10	7	29
226395	98153	<1	4.10	80	18	<1	<1	7.70	<4	23	161	56	3.89	0.03	10	1.39	701	<1	98	<100	112	6	<5	<10	87	114	5	82	<10	5	7
226396	98154	<1	4.64	80	9	<1	4	9.99	4	65	223	37	7.54	0.01	17	2.82	1051	<1	195	119	241	5	<5	<10	100	1064	4	198	<10	8	53
226397	98155	<1	4.11	100	15	<1	2	6.78	<4	19	110	195	3.72	0.03	8	1.34	816	<1	43	101	121	5	<5	<10	78	115	5	112	<10	5	3
226398	98156	<1	3.98	64	195	<1	<1	4.22	<4	13	103	7	1.81	0.73	5	0.95	496	<1	31	284	57	5	<5	<10	182	1680	2	55	<10	10	<1
226399	98157	<1	3.46	72	37	<1	<1	5.61	<4	51	158	22	6.28	0.15	14	2.29	1225	<1	71	121	210	<5	<5	<10	55	3956	2	210	<10	16	29
226400	98158	<1	4.78	55	166	<1	7	4.72	<4	40	152	37	5.86	0.34	17	2.54	1097	<1	80	113	182	7	<5	<10	63	3599	<1	187	<10	15	37
226401	98159	<1	4.39	69	55	<1	4	4.08	<4	41	215	102	6.05	0.13	14	2.74	1192	<1	65	109	188	6	<5	<10	120	3870	3	172	<10	13	44
226402	98160	<1	4.23	71	43	<1	5	3.59	<4	41	191	59	6.29	0.11	14	2.85	1130	<1	65	118	216	6	<5	<10	78	4164	1	182	<10	12	40
226403	98160	3	3.66	31	35	<1	5	3.21	<4	42	200	65	6.37	0.10	15	2.86	1130	<1	66	122	203	7	<5	<10	63	4228	<1	178	<10	11	41
226404	98161	5	3.87	26	68	<1	9	3.46	<4	34	190	57	5.24	0.17	13	2.58	1040	<1	59	204	162	6	<5	<10	157	3458	3	148	<10	11	30
226405	98162	2	2.97	64	31	<1	8	4.87	<4	44	70	69	6.56	0.10	8	2.12	1357	<1	33	181	214	6	<5	<10	66	4667	1	234	<10	16	39
226406	98163	3	3.77	40	14	<1	18	3.09	4	54	98	64	7.98	0.07	19	2.87	1642	<1	37	160	272	7	<5	<10	44	5861	1	258	<10	11	72
226407	98164	4	4.56	38	14	<1	5	3.81	<4	46	70	119	7.39	0.05	16	2.38	1712	<1	36	146	253	6	<5	<10	53	5165	<1	254	<10	15	75
226408	98165	3	4.32	61	54	<1	3	5.17	<4	40	146	58	6.45	0.15	13	2.59	1223	<1	63	128	199	6	<5	<10	76	4155	2	216	<10	15	46
226409	98166	2	4.78	37	85	<1	10	5.07	<4	41	225	72	6.62	0.19	12	2.96	1255	<1	80	140	227	7	<5	<10	138	4251	2	208	<10	14	43
226410	98167	<1	4.77	46	166	<1	4	3.68	<4	26	103	58	4.15	0.52	11	1.76	946	<1	38	364	135	5	<5	<10	265	3322	2	119	<10	12	39
226411	98168	2	3.96	33	93	<1	7	5.38	<4	39	283	80	5.82	0.28	11	2.93	1261	<1	68	190	190	<5	<5	<10	238	4105	3	181	<10	13	39
226412	98169	<1	5.03	40	45	<1	<1	5.67	<4	45	83	114	6.57	0.08	19	2.14	1594	<1	31	153	211	<5	<5	<10	35	5321	4	239	<10	14	57
226413	98170	<1	4.63	48	49	<1	7	4.92	<4	43	132	179	7.33	0.16	15	2.46	1435	<1	48	160	238	<5	<5	<10	63	2818	<1	243	<10	13	48
226414	98170	<1	4.74	38	50	<1	4	4.85	<4	42	132	183	7.24	0.16	15	2.45	1437	<1	49	163	239	<5	<5	<10	62	2875	2	242	<10	12	50

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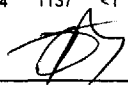
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Chibougamau Drilling  
Date Created: 07-10-27 11:07:44 PM  
Job Number: 200743138  
Date Received: Aug 24, 2007  
Number of Samples: 58  
Type of Sample: Core  
Date Completed: Oct 18, 2007  
Project ID:

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226415	98171	<1	3.62	61	425	<1	6	0.82	<4	<1	134	3	0.72	1.25	1	0.10	<100	2	3	<100	26	5	6	<10	31	125	<1	6	<10	17	<1
226416	98172	<1	4.46	45	537	<1	5	0.67	<4	<1	81	<1	0.55	1.71	<1	0.05	<100	2	4	<100	19	6	<5	<10	37	<100	<1	<2	<10	16	<1
226417	98173	<1	3.10	54	450	<1	<1	0.79	<4	<1	143	1	0.57	1.39	2	0.04	<100	3	2	<100	29	6	6	<10	27	<100	<1	<2	<10	21	35
226418	98174	<1	4.44	31	592	<1	<1	0.65	<4	<1	109	1	0.71	1.76	2	0.05	<100	3	2	<100	24	<5	5	<10	40	<100	<1	<2	<10	20	7
226419	98175	<1	4.06	57	557	<1	10	0.82	<4	<1	172	3	0.85	1.60	3	0.07	106	3	3	<100	32	7	5	<10	36	104	2	3	<10	23	13
226420	98176	<1	4.04	81	528	<1	6	0.82	<4	<1	108	1	0.67	1.51	3	0.05	<100	3	3	<100	25	6	5	<10	39	<100	<1	<2	<10	20	<1
226421	98177	<1	4.08	64	403	<1	<1	0.87	<4	<1	162	3	0.71	1.17	1	0.09	102	2	4	<100	24	<5	6	<10	38	121	<1	3	<10	20	114
226422	98178	<1	5.18	42	36	<1	8	5.11	<4	55	159	156	6.62	0.11	9	2.04	1455	<1	62	153	219	<5	<5	<10	70	5479	2	282	<10	19	59
226423	98179	2	4.55	59	26	<1	10	4.44	<4	47	133	141	6.86	0.09	12	2.49	1365	<1	49	143	234	5	<5	<10	49	4654	3	238	<10	16	40
226424	98180	3	4.91	52	48	<1	10	4.48	6	57	113	250	7.24	0.25	14	2.61	1596	<1	57	139	498	<5	<5	<10	57	4873	<1	260	<10	17	576
226425	98180	1	4.15	39	36	<1	8	3.91	6	55	112	251	6.95	0.19	15	2.53	1508	<1	53	141	480	5	<5	<10	43	4639	2	245	<10	15	573
226426	98181	4	4.96	55	42	<1	12	4.78	5	59	152	224	6.78	0.15	10	2.00	1740	<1	62	155	294	<5	<5	<10	62	5366	1	279	<10	19	283
226427	98182	5	5.30	71	42	<1	10	4.87	<4	52	142	160	6.36	0.14	8	1.90	1690	<1	59	145	232	<5	<5	<10	70	5069	2	271	<10	19	105
226428	98183	<1	4.89	28	414	<1	2	2.02	<4	7	154	34	1.29	0.79	6	0.76	307	<1	33	144	49	6	<5	<10	616	966	<1	30	<10	5	66
226429	98184	<1	4.98	63	261	<1	1	3.46	<4	28	144	74	3.32	0.56	5	1.28	827	<1	51	169	111	6	<5	<10	474	2900	2	143	<10	13	33
226430	98185	1	4.74	76	54	<1	8	4.31	<4	45	198	111	5.16	0.17	6	1.51	1491	<1	55	144	190	5	<5	<10	91	4490	1	233	<10	17	58
226431	98186	2	3.32	28	39	<1	7	3.46	<4	43	133	145	4.94	0.14	7	1.83	1274	<1	47	141	206	5	<5	<10	42	4204	<1	209	<10	13	189
226432	98187	1	3.41	34	26	<1	2	3.87	<4	42	150	87	5.14	0.11	10	1.81	1411	<1	45	145	219	6	<5	<10	47	4495	1	213	<10	14	124
226433	98188	1	3.26	43	65	<1	2	3.80	<4	43	107	80	5.15	0.24	9	1.74	1417	<1	48	132	164	<5	<5	<10	60	4402	3	227	<10	15	59
226434	98189	3	3.38	52	58	<1	<1	3.56	<4	66	157	247	6.12	0.29	7	2.15	1451	<1	75	216	223	6	<5	<10	77	5175	<1	222	<10	15	76
226435	98190	<1	3.50	38	53	<1	4	5.95	<4	52	96	190	6.28	0.20	18	2.00	1178	<1	57	179	208	6	<5	<10	80	2635	<1	198	<10	13	37
226436	98190	<1	3.90	52	61	<1	3	5.82	<4	50	93	194	6.08	0.22	15	1.94	1137	<1	57	170	189	<5	<5	<10	85	2655	<1	197	<10	13	32

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Chibougamau Drilling  
Date Created: 07-10-27 11:07:44 PM  
Job Number: 200743138  
Date Received: Aug 24, 2007  
Number of Samples: 58  
Type of Sample: Core  
Date Completed: Oct 18, 2007  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	
226437	98191	3	3.17	32	20	<1	5	3.17	<4	43	142	139	6.13	0.08	9	2.38	1084	<1	64	163	185	6	<5	<10	51	3924	<1	196	<10	12	50	
226438	98192	<1	3.00	40	48	<1	7	3.56	4	81	193	287	7.21	0.15	7	2.22	1192	<1	119	310	231	7	<5	<10	137	4234	4	184	<10	13	401	
226439	98193	4	3.23	54	69	<1	12	3.76	5	49	155	264	8.57	0.22	10	2.39	1152	2	99	177	290	7	<5	<10	86	5166	1	192	<10	16	210	
226440	98194	4	2.41	23	17	<1	6	3.53	<4	51	95	154	6.75	0.09	4	1.69	1150	<1	64	154	221	<5	<5	<10	53	4307	2	183	<10	12	61	
226441	98195	4	4.23	44	32	<1	13	4.09	4	44	130	116	6.97	0.13	15	2.66	1259	<1	47	138	235	7	<5	<10	43	4506	<1	228	<10	14	196	
226442	98196	3	3.16	44	34	<1	5	3.17	<4	38	117	122	4.61	0.10	6	1.52	1103	<1	44	135	147	<5	<5	<10	41	3616	3	179	<10	13	32	
226443	98197	<1	3.20	48	20	<1	3	4.45	<4	47	120	135	6.81	0.10	2	1.89	1527	<1	56	156	225	<5	<5	<10	71	4623	3	212	<10	14	96	
226444	98198	4	4.11	83	40	<1	10	5.62	5	62	135	360	9.22	0.11	3	1.99	1559	4	82	151	316	8	<5	<10	95	4923	<1	227	<10	18	115	
226445	98199	8	5.08	26	55	<1	9	5.09	5	58	167	216	8.20	0.15	4	2.11	1648	2	73	157	275	<5	<5	<10	114	6066	2	283	<10	21	79	
226446	98200	4	5.44	26	24	<1	11	5.46	<4	50	153	120	7.47	0.10	7	2.15	2157	<1	65	166	245	7	<5	<10	113	6334	5	306	<10	19	98	
226447	98200	2	6.56	46	29	<1	7	6.27	4	52	158	128	7.85	0.12	7	2.29	2275	<1	71	179	259	6	<5	<10	137	6700	4	331	<10	21	102	
226448	98201							No Sample Received																								
226449	98202							No Sample Received																								
226450	98203							No Sample Received																								
226451	98204							No Sample Received																								
226452	98205							No Sample Received																								
226453	98206							No Sample Received																								
226454	98207							No Sample Received																								
226455	98208							No Sample Received																								

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Chibougamau Drilling  
Date Created: 07-10-27 11:07:44 PM  
Job Number: 200743138  
Date Received: Aug 24, 2007  
Number of Samples: 58  
Type of Sample: Core  
Date Completed: Oct 18, 2007  
Project ID:

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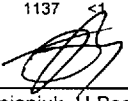
Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
226393	98151	<1	4.19	37	7	<1	6	6.75	4	53	217	132	7.44	0.02	14	3.23	1176	<1	176	140	236	6	<5	<10	41	1522	<1	181	<10	9	52
226394	98152	<1	3.24	73	7	<1	8	>10.00	<4	34	131	90	5.15	0.02	10	2.29	1635	<1	119	<100	162	<5	<5	<10	91	1006	2	117	<10	7	29
226395	98153	<1	4.10	80	18	<1	<1	7.70	<4	23	161	56	3.89	0.03	10	1.39	701	<1	98	<100	112	6	<5	<10	87	114	5	82	<10	5	7
226396	98154	<1	4.64	80	9	<1	4	9.99	4	65	223	37	7.54	0.01	17	2.82	1051	<1	195	119	241	5	<5	<10	100	1064	4	198	<10	8	53
226397	98155	<1	4.11	100	15	<1	2	6.78	<4	19	110	195	3.72	0.03	8	1.34	816	<1	43	101	121	5	<5	<10	78	115	5	112	<10	5	3
226398	98156	<1	3.98	64	195	<1	<1	4.22	<4	13	103	7	1.81	0.73	5	0.95	496	<1	31	284	57	5	<5	<10	182	1680	2	55	<10	10	<1
226399	98157	<1	3.46	72	37	<1	<1	5.61	<4	51	158	22	6.28	0.15	14	2.29	1225	<1	71	121	210	<5	<5	<10	55	3956	2	210	<10	16	29
226400	98158	<1	4.78	55	166	<1	7	4.72	<4	40	152	37	5.86	0.34	17	2.54	1097	<1	80	113	182	7	<5	<10	63	3599	<1	187	<10	15	37
226401	98159	<1	4.39	69	55	<1	4	4.08	<4	41	215	102	6.05	0.13	14	2.74	1192	<1	65	109	188	6	<5	<10	120	3870	3	172	<10	13	44
226402	98160	<1	4.23	71	43	<1	5	3.59	<4	41	191	59	6.29	0.11	14	2.85	1130	<1	65	118	216	6	<5	<10	78	4164	1	182	<10	12	40
226403	98160	3	3.66	31	35	<1	5	3.21	<4	42	200	65	6.37	0.10	15	2.86	1130	<1	66	122	203	7	<5	<10	63	4228	<1	178	<10	11	41
226404	98161	5	3.87	26	68	<1	9	3.46	<4	34	190	57	5.24	0.17	13	2.58	1040	<1	59	204	162	6	<5	<10	157	3458	3	148	<10	11	30
226405	98162	2	2.97	64	31	<1	8	4.87	<4	44	70	69	6.56	0.10	8	2.12	1357	<1	33	181	214	6	<5	<10	66	4667	1	234	<10	16	39
226406	98163	3	3.77	40	14	<1	18	3.09	4	54	98	64	7.98	0.07	19	2.87	1642	<1	37	160	272	7	<5	<10	44	5861	1	258	<10	11	72
226407	98164	4	4.56	38	14	<1	5	3.81	<4	46	70	119	7.39	0.05	16	2.38	1712	<1	36	146	253	6	<5	<10	53	5165	<1	254	<10	15	75
226408	98165	3	4.32	61	54	<1	3	5.17	<4	40	146	58	6.45	0.15	13	2.59	1223	<1	63	128	199	6	<5	<10	76	4155	2	216	<10	15	46
226409	98166	2	4.78	37	85	<1	10	5.07	<4	41	225	72	6.62	0.19	12	2.96	1255	<1	80	140	227	7	<5	<10	138	4251	2	208	<10	14	43
226410	98167	<1	4.77	46	166	<1	4	3.68	<4	26	103	58	4.15	0.52	11	1.76	946	<1	38	364	135	5	<5	<10	265	3322	2	119	<10	12	39
226411	98168	2	3.96	33	93	<1	7	5.38	<4	39	283	80	5.82	0.28	11	2.93	1261	<1	68	190	190	<5	<5	<10	238	4105	3	181	<10	13	39
226412	98169	<1	5.03	40	45	<1	<1	5.67	<4	45	83	114	6.57	0.08	19	2.14	1594	<1	31	153	211	<5	<5	<10	35	5321	4	239	<10	14	57
226413	98170	<1	4.63	48	49	<1	7	4.92	<4	43	132	179	7.33	0.16	15	2.46	1435	<1	48	160	238	<5	<5	<10	63	2818	<1	243	<10	13	48
226414	98170	<1	4.74	38	50	<1	4	4.85	<4	42	132	183	7.24	0.16	15	2.45	1437	<1	49	163	239	<5	<5	<10	62	2875	2	242	<10	12	50

Certified By:   
Derek Demianiuk, H.Bsc.

Chibougamau Drilling  
Date Created: 07-10-27 11:07:44 PM  
Job Number: 200743138  
Date Received: Aug 24, 2007  
Number of Samples: 58  
Type of Sample: Core  
Date Completed: Oct 18, 2007  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
226415	98171	<1	3.62	61	425	<1	6	0.82	<4	<1	134	3	0.72	1.25	1	0.10	<100	2	3	<100	26	5	6	<10	31	125	<1	6	<10	17	<1
226416	98172	<1	4.46	45	537	<1	5	0.67	<4	<1	81	<1	0.55	1.71	<1	0.05	<100	2	4	<100	19	6	<5	<10	37	<100	<1	<2	<10	16	<1
226417	98173	<1	3.10	54	450	<1	<1	0.79	<4	<1	143	1	0.57	1.39	2	0.04	<100	3	2	<100	29	6	6	<10	27	<100	<1	<2	<10	21	35
226418	98174	<1	4.44	31	592	<1	<1	0.65	<4	<1	109	1	0.71	1.76	2	0.05	<100	3	2	<100	24	<5	5	<10	40	<100	<1	<2	<10	20	7
226419	98175	<1	4.06	57	557	<1	10	0.82	<4	<1	172	3	0.85	1.60	3	0.07	106	3	3	<100	32	7	5	<10	36	104	2	3	<10	23	13
226420	98176	<1	4.04	81	528	<1	6	0.82	<4	<1	108	1	0.67	1.51	3	0.05	<100	3	3	<100	25	6	5	<10	39	<100	<1	<2	<10	20	<1
226421	98177	<1	4.08	64	403	<1	<1	0.87	<4	<1	162	3	0.71	1.17	1	0.09	102	2	4	<100	24	<5	6	<10	38	121	<1	3	<10	20	114
226422	98178	<1	5.18	42	36	<1	8	5.11	<4	55	159	156	6.62	0.11	9	2.04	1455	<1	62	153	219	<5	<5	<10	70	5479	2	282	<10	19	59
226423	98179	2	4.55	59	26	<1	10	4.44	<4	47	133	141	6.86	0.09	12	2.49	1365	<1	49	143	234	5	<5	<10	49	4654	3	238	<10	16	40
226424	98180	3	4.91	52	48	<1	10	4.48	6	57	113	250	7.24	0.25	14	2.61	1596	<1	57	139	498	<5	<5	<10	57	4873	<1	260	<10	17	576
226425	98180	1	4.15	39	36	<1	8	3.91	6	55	112	251	6.95	0.19	15	2.53	1508	<1	53	141	480	5	<5	<10	43	4639	2	245	<10	15	573
226426	98181	4	4.96	55	42	<1	12	4.78	5	59	152	224	6.78	0.15	10	2.00	1740	<1	62	155	294	<5	<5	<10	62	5366	1	279	<10	19	283
226427	98182	5	5.30	71	42	<1	10	4.87	<4	52	142	160	6.36	0.14	8	1.90	1690	<1	59	145	232	<5	<5	<10	70	5069	2	271	<10	19	105
226428	98183	<1	4.89	28	414	<1	2	2.02	<4	7	154	34	1.29	0.79	6	0.76	307	<1	33	144	49	6	<5	<10	616	966	<1	30	<10	5	66
226429	98184	<1	4.98	63	261	<1	1	3.46	<4	28	144	74	3.32	0.56	5	1.28	827	<1	51	169	111	6	<5	<10	474	2900	2	143	<10	13	33
226430	98185	1	4.74	76	54	<1	8	4.31	<4	45	198	111	5.16	0.17	6	1.51	1491	<1	55	144	190	5	<5	<10	91	4490	1	233	<10	17	58
226431	98186	2	3.32	28	39	<1	7	3.46	<4	43	133	145	4.94	0.14	7	1.83	1274	<1	47	141	206	5	<5	<10	42	4204	<1	209	<10	13	189
226432	98187	1	3.41	34	26	<1	2	3.87	<4	42	150	87	5.14	0.11	10	1.81	1411	<1	45	145	219	6	<5	<10	47	4495	1	213	<10	14	124
226433	98188	1	3.26	43	65	<1	2	3.80	<4	43	107	80	5.15	0.24	9	1.74	1417	<1	48	132	164	<5	<5	<10	60	4402	3	227	<10	15	59
226434	98189	3	3.38	52	58	<1	<1	3.56	<4	66	157	247	6.12	0.29	7	2.15	1451	<1	75	216	223	6	<5	<10	77	5175	<1	222	<10	15	76
226435	98190	<1	3.50	38	53	<1	4	5.95	<4	52	96	190	6.28	0.20	18	2.00	1178	<1	57	179	208	6	<5	<10	80	2635	<1	198	<10	13	37
226436	98190	<1	3.90	52	61	<1	3	5.82	<4	50	93	194	6.08	0.22	15	1.94	1137	<1	57	170	189	<5	<5	<10	85	2655	<1	197	<10	13	32

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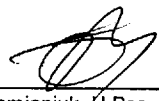
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Chibougamau Drilling  
Date Created: 07-10-27 11:07:44 PM  
Job Number: 200743138  
Date Received: Aug 24, 2007  
Number of Samples: 58  
Type of Sample: Core  
Date Completed: Oct 18, 2007  
Project ID:

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226437	98191	3	3.17	32	20	<1	5	3.17	<4	43	142	139	6.13	0.08	9	2.38	1084	<1	64	163	185	6	<5	<10	51	3924	<1	196	<10	12	50					
226438	98192	<1	3.00	40	48	<1	7	3.56	4	81	193	287	7.21	0.15	7	2.22	1192	<1	119	310	231	7	<5	<10	137	4234	4	184	<10	13	401					
226439	98193	4	3.23	54	69	<1	12	3.76	5	49	155	264	8.57	0.22	10	2.39	1152	2	99	177	290	7	<5	<10	86	5166	1	192	<10	16	210					
226440	98194	4	2.41	23	17	<1	6	3.53	<4	51	95	154	6.75	0.09	4	1.69	1150	<1	64	154	221	<5	<5	<10	53	4307	2	183	<10	12	61					
226441	98195	4	4.23	44	32	<1	13	4.09	4	44	130	116	6.97	0.13	15	2.66	1259	<1	47	138	235	7	<5	<10	43	4506	<1	228	<10	14	196					
226442	98196	3	3.16	44	34	<1	5	3.17	<4	38	117	122	4.61	0.10	6	1.52	1103	<1	44	135	147	<5	<5	<10	41	3616	3	179	<10	13	32					
226443	98197	<1	3.20	48	20	<1	3	4.45	<4	47	120	135	6.81	0.10	2	1.89	1527	<1	56	156	225	<5	<5	<10	71	4623	3	212	<10	14	96					
226444	98198	4	4.11	83	40	<1	10	5.62	5	62	135	360	9.22	0.11	3	1.99	1559	4	82	151	316	8	<5	<10	95	4923	<1	227	<10	18	115					
226445	98199	8	5.08	26	55	<1	9	5.09	5	58	167	216	8.20	0.15	4	2.11	1648	2	73	157	275	<5	<5	<10	114	6066	2	283	<10	21	79					
226446	98200	4	5.44	26	24	<1	11	5.46	<4	50	153	120	7.47	0.10	7	2.15	2157	<1	65	166	245	7	<5	<10	113	6334	5	306	<10	19	98					
226447	98200	2	6.56	46	29	<1	7	6.27	4	52	158	128	7.85	0.12	7	2.29	2275	<1	71	179	259	6	<5	<10	137	6700	4	331	<10	21	102					
226448	98201			No Sample Received																																
226449	98202			No Sample Received																																
226450	98203			No Sample Received																																
226451	98204			No Sample Received																																
226452	98205			No Sample Received																																
226453	98206			No Sample Received																																
226454	98207			No Sample Received																																
226455	98208			No Sample Received																																

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Chibougamau Drilling  
Date Created: 07-09-11 01:15:40 PM  
Job Number: 200742892  
Date Received: Aug 13, 2007  
Number of Samples: 18  
Type of Sample: Core  
Date Completed: Sep 7, 2007  
Project ID:

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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
211678	512701	<1	3.10	7	52	22	1	15	>10.00	5	43	157	102	7.12	0.18	12	2.82	1684	15	0.03	69	362	323	<5	<5	0.13	<10	82	<100	<1	99	<10	2	57
211679	512702	<1	3.51	9	47	23	<1	12	8.47	4	36	152	71	6.87	0.20	12	2.66	1424	12	0.05	60	327	303	<5	<5	0.14	<10	69	<100	<1	117	<10	2	69
211680	512703	<1	3.81	5	60	22	<1	14	9.92	5	41	164	145	7.62	0.20	14	2.87	1627	15	0.04	60	356	347	<5	<5	0.15	<10	81	<100	<1	115	<10	3	76
211681	512704	<1	2.92	8	53	23	<1	10	>10.00	5	41	90	158	6.84	0.19	10	2.58	1793	13	0.03	47	311	284	<5	<5	0.14	<10	87	<100	<1	88	<10	3	54
211682	512705	<1	3.13	5	51	27	<1	11	9.02	5	46	158	162	7.27	0.22	10	2.48	1537	14	0.04	54	310	305	<5	<5	0.16	<10	74	<100	<1	93	<10	2	55
211683	512706	<1	3.32	4	52	36	<1	12	8.54	4	37	141	94	6.56	0.24	12	2.60	1313	13	0.04	58	324	284	<5	<5	0.13	<10	79	<100	2	100	<10	3	61
211684	512707	2	4.31	24	54	45	1	13	7.01	8	73	159	200	>10.00	0.08	16	2.14	1475	17	0.04	69	296	479	<5	<5	0.27	<10	13	5019	5	187	<10	11	444
211685	512708	2	6.11	18	67	9	<1	21	>10.00	5	63	110	155	8.15	0.03	20	2.42	2310	14	0.03	52	311	359	<5	<5	0.28	<10	21	5550	<1	202	<10	10	122
211686	512709	<1	3.57	12	53	79	<1	3	3.26	<4	26	196	155	5.32	0.16	17	1.68	806	10	0.09	42	227	215	<5	<5	0.32	<10	7	1880	<1	108	<10	13	102
211687	512710	2	3.53	5	51	8	<1	10	4.48	<4	38	114	118	4.42	0.03	9	1.47	992	8	0.05	43	341	180	<5	<5	0.26	<10	29	4667	<1	115	<10	6	53
211688	512710	1	3.53	4	54	8	<1	9	4.45	<4	39	110	120	4.44	0.03	9	1.49	1003	8	0.05	41	341	160	<5	<5	0.27	<10	28	4640	<1	114	<10	6	55
211689	512711	2	6.06	11	47	4	<1	5	>10.00	5	44	110	112	7.74	0.02	18	2.57	1754	15	0.04	43	299	326	<5	<5	0.38	<10	19	4097	<1	254	<10	11	70
211690	512713	2	3.41	6	52	8	<1	18	>10.00	5	63	111	181	8.08	0.03	8	1.40	1784	12	0.08	49	314	357	<5	<5	0.30	<10	21	5415	<1	190	<10	12	46
211691	512714	3	2.74	8	57	8	1	13	>10.00	5	55	118	193	8.37	0.03	5	1.09	1534	13	0.10	49	301	363	<5	<5	0.29	<10	20	5437	<1	180	<10	12	26
211692	512715	<1	2.34	5	62	26	<1	7	2.62	<4	21	159	75	2.92	0.07	3	0.84	632	5	0.11	30	543	117	<5	<5	0.26	<10	163	3242	<1	81	<10	7	75
211693	512716	1	5.31	8	56	16	1	15	>10.00	7	44	97	112	>10.00	0.04	7	1.86	3204	16	0.04	40	270	465	<5	<5	0.31	<10	26	4133	<1	228	<10	12	51
211694	512717	3	6.90	7	57	23	1	14	>10.00	7	43	85	126	>10.00	0.06	9	2.25	4101	18	0.05	40	276	505	<5	<5	0.35	<10	21	4232	2	252	<10	14	73
211695	512719	3	4.39	8	54	3	1	7	6.92	5	50	104	161	6.93	0.02	7	1.53	1255	12	0.04	37	331	292	<5	<5	0.27	<10	24	5268	<1	162	<10	12	153
211696	512721	<1	1.84	15	57	60	<1	2	3.89	<4	14	97	59	2.62	0.27	8	0.57	484	6	0.05	29	176	97	<5	<5	0.08	<10	20	339	<1	28	<10	12	11

Certified By:   
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Accur. #	Client Tag	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
211678	512701	<1	3.10	7	52	22	1	15	>10.00	5	43	157	102	7.12	0.18	12	2.82	1684	15	0.03	69	362	323	<5	<5	0.13	<10	82	<100	<1	99	<10	2	57
211679	512702	<1	3.51	9	47	23	<1	12	8.47	4	36	152	71	6.87	0.20	12	2.66	1424	12	0.05	60	327	303	<5	<5	0.14	<10	69	<100	<1	117	<10	2	69
211680	512703	<1	3.81	5	60	22	<1	14	9.92	5	41	164	145	7.62	0.20	14	2.87	1627	15	0.04	60	356	347	<5	<5	0.15	<10	81	<100	<1	115	<10	3	76
211681	512704	<1	2.92	8	53	23	<1	10	>10.00	5	41	90	158	6.84	0.19	10	2.58	1793	13	0.03	47	311	284	<5	<5	0.14	<10	87	<100	<1	88	<10	3	54
211682	512705	<1	3.13	5	51	27	<1	11	9.02	5	46	158	162	7.27	0.22	10	2.48	1537	14	0.04	54	310	305	<5	<5	0.16	<10	74	<100	<1	93	<10	2	55
211683	512706	<1	3.32	4	52	36	<1	12	8.54	4	37	141	94	6.56	0.24	12	2.60	1313	13	0.04	58	324	284	<5	<5	0.13	<10	79	<100	2	100	<10	3	61
211684	512707	2	4.31	24	54	45	1	13	7.01	8	73	159	200	>10.00	0.08	16	2.14	1475	17	0.04	69	296	479	<5	<5	0.27	<10	13	5019	5	187	<10	11	444
211685	512708	2	6.11	18	67	9	<1	21	>10.00	5	63	110	155	8.15	0.03	20	2.42	2310	14	0.03	52	311	359	<5	<5	0.28	<10	21	5550	<1	202	<10	10	122
211686	512709	<1	3.57	12	53	79	<1	3	3.26	<4	26	196	155	5.32	0.16	17	1.68	806	10	0.09	42	227	215	<5	<5	0.32	<10	7	1880	<1	108	<10	13	102
211687	512710	2	3.53	5	51	8	<1	10	4.48	<4	38	114	118	4.42	0.03	9	1.47	992	8	0.05	43	341	180	<5	<5	0.26	<10	29	4667	<1	115	<10	6	53
211688	512710	1	3.53	4	54	8	<1	9	4.45	<4	39	110	120	4.44	0.03	9	1.49	1003	8	0.05	41	341	160	<5	<5	0.27	<10	28	4640	<1	114	<10	6	55
211689	512711	2	6.06	11	47	4	<1	5	>10.00	5	44	110	112	7.74	0.02	18	2.57	1754	15	0.04	43	299	326	<5	<5	0.38	<10	19	4097	<1	254	<10	11	70
211690	512713	2	3.41	6	52	8	<1	18	>10.00	5	63	111	181	8.08	0.03	8	1.40	1784	12	0.08	49	314	357	<5	<5	0.30	<10	21	5415	<1	190	<10	12	46
211691	512714	3	2.74	8	57	8	1	13	>10.00	5	55	118	193	8.37	0.03	5	1.09	1534	13	0.10	49	301	363	<5	<5	0.29	<10	20	5437	<1	180	<10	12	26
211692	512715	<1	2.34	5	62	26	<1	7	2.62	<4	21	159	75	2.92	0.07	3	0.84	632	5	0.11	30	543	117	<5	<5	0.26	<10	163	3242	<1	81	<10	7	75
211693	512716	1	5.31	8	56	16	1	15	>10.00	7	44	97	112	>10.00	0.04	7	1.86	3204	16	0.04	40	270	465	<5	<5	0.31	<10	26	4133	<1	228	<10	12	51
211694	512717	3	6.90	7	57	23	1	14	>10.00	7	43	85	126	>10.00	0.06	9	2.25	4101	18	0.05	40	276	505	<5	<5	0.35	<10	21	4232	2	252	<10	14	73
211695	512719	3	4.39	8	54	3	1	7	6.92	5	50	104	161	6.93	0.02	7	1.53	1255	12	0.04	37	331	292	<5	<5	0.27	<10	24	5268	<1	162	<10	12	153
211696	512721	<1	1.84	15	57	60	<1	2	3.89	<4	14	97	59	2.62	0.27	8	0.57	484	6	0.05	29	176	97	<5	<5	0.08	<10	20	339	<1	28	<10	12	11

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