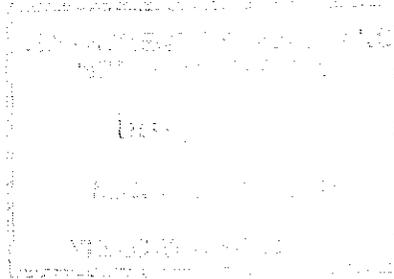


083774



## MELIADINE WEST JOINT VENTURE

### REPORT ON THE 1996 GEOCHEMICAL EXPLORATION PROGRAM ON WESTERN CLAIMS NAT 28 AND NAT 29

District of Kivalliq (Keewatin)  
Nunavut (NWT)

Latitude: 63° 02' 30" N  
Longitude: 92° 42' 00" W  
NTS: 55N/2

THIS REPORT was prepared for the  
 APPROVED BY  
 SIGNATURE

14,026.00

DATE 31/MAR/97

FOR  
 RENEW  
 BRANCH

Terry A. Goodwin  
Geochemist/Quaternary Geologist  
WMC International Limited  
Nepean, Ontario  
December, 1996

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## **1.0 SUMMARY**

As part of a larger exploration program in the Meliadine Lake area of the Northwest Territories, WMC International Limited completed a limited helicopter-assisted till (frost boil) sampling program during the months of July and August, 1996. A total of 31 till samples were collected and sent for heavy mineral analysis, <63 micron analysis, gold grain and clast counts. Anomalies were identified and follow-up work is recommended.

## **2.0 INTRODUCTION**

As part of its continuing gold exploration program in the Meliadine Lake area of the Northwest Territories, WMC International Limited (WMC) completed a helicopter-assisted till geochemical sampling program during the months of July and August, 1996, on claims NAT 28 and NAT 29. A total of 31 C horizon till samples were collected and sent to Overburden Drilling Management of Nepean, Ontario for heavy mineral processing, gold grain and clast counts. Heavy Mineral Concentrates (HMCs) were analyzed by ACTIVATION Laboratories Ltd. of Ancaster, Ontario and the <63 micron fraction was analyzed by Bondar-Clegg in Ottawa, Ontario.

Custom Helicopter Ltd. of Winnipeg, Manitoba was contracted to supply helicopter support for the survey. Logistical support for the program was from WMC's field camp located on the south shore of Meliadine Lake.

Results of the till sampling program are herein described.

## **3.0 LOCATION AND ACCESS**

WMC's Meliadine property is located approximately 40 km northwest of the town of Rankin Inlet, Northwest Territories, a small northern community located on the west coast of Hudson Bay (Figure 1). Claims Nat 28 and NAT 29 are located on the western half of the property immediately south and north of Peter Lake and Diana Lake, respectively. Nat 28 and Nat 29 are centered at 63° 02' 30" N latitude and 92° 42' 00" E longitude on NTS map sheet 55N/2.

Access to the property in summer is restricted to helicopters and float planes. A rough ATV trail from Rankin Inlet also cuts across the property. Winter access is by helicopter, ski-equipped planes and via snowmobile from Rankin Inlet.

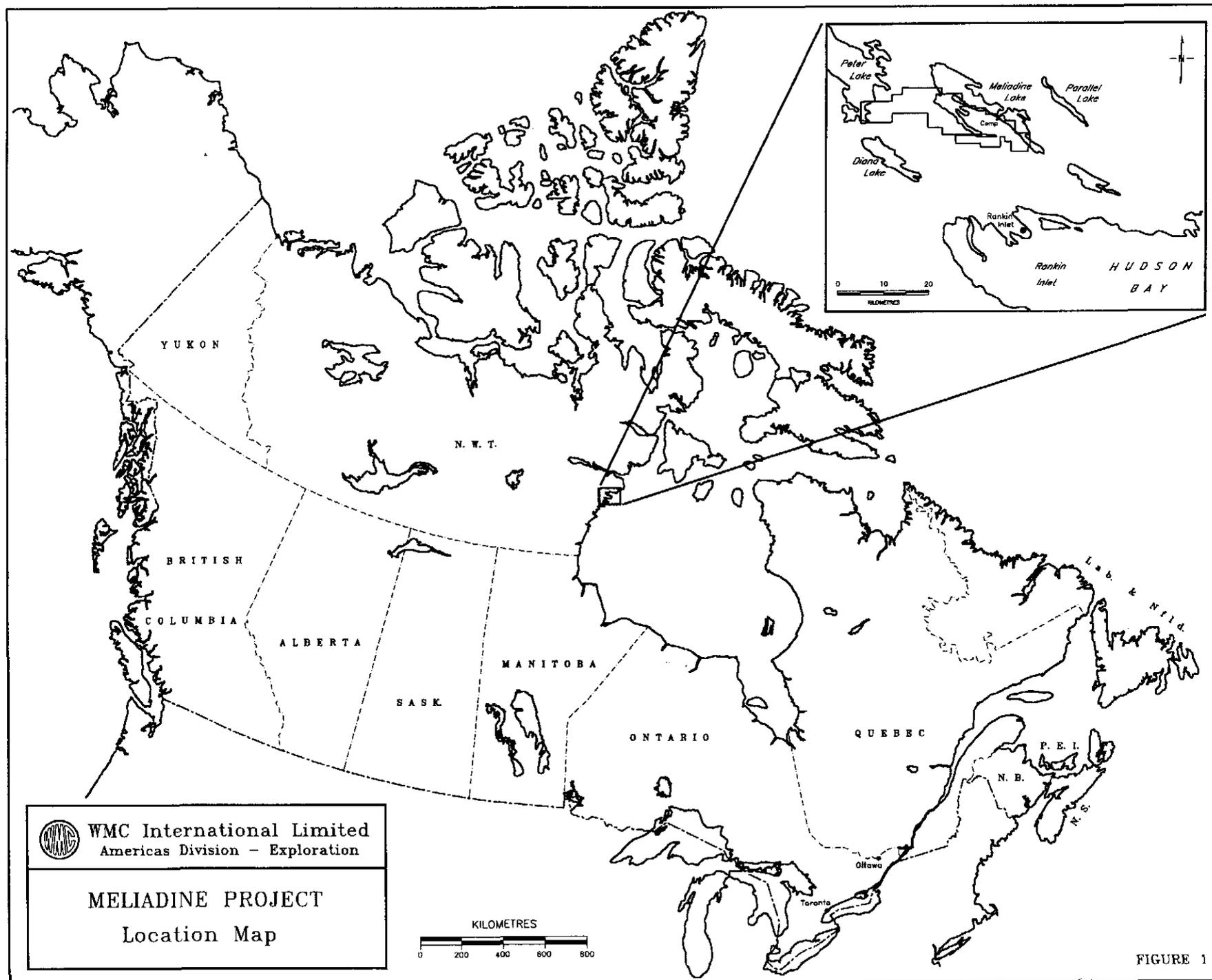


FIGURE 1

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## **4.0 PHYSIOGRAPHY**

Nat 28 and NAT 29 form a small land-bridge between Peter Lake and Diana Lake. The claims are characterized by approximately 40% water in the form of lakes and 60% land.

The terrain rises gently from the west coast of Hudson Bay to a maximum elevation of 59 m above sea level within NAT 28. In general, the topography is relatively flat although numerous NW-SE drumlinoid ridges are present. Drainage in the area is disorganized and irregular with small, boggy intermittent streams connecting a number of lakes. The lakes and the hills have a preferred orientation in the NW-SW direction consistent with a dominant, late Wisconsinan glacial movement.

Extensive glacial drift cover with local boulder fields dominate the surficial geology. Outcrop exposures are generally restricted to the shorelines of a number of lakes.

Vegetation within the claims is sparse, stunted and typical of the tundra with lichens, mosses and grasses predominating.

## **5.0 OWNERSHIP AND LAND**

NAT 28 and NAT 29 are 2 mineral claims that are part of the larger Meliadine West Property consisting of 28 mineral claims covering approximately 25 000 hectares (Figure 2).

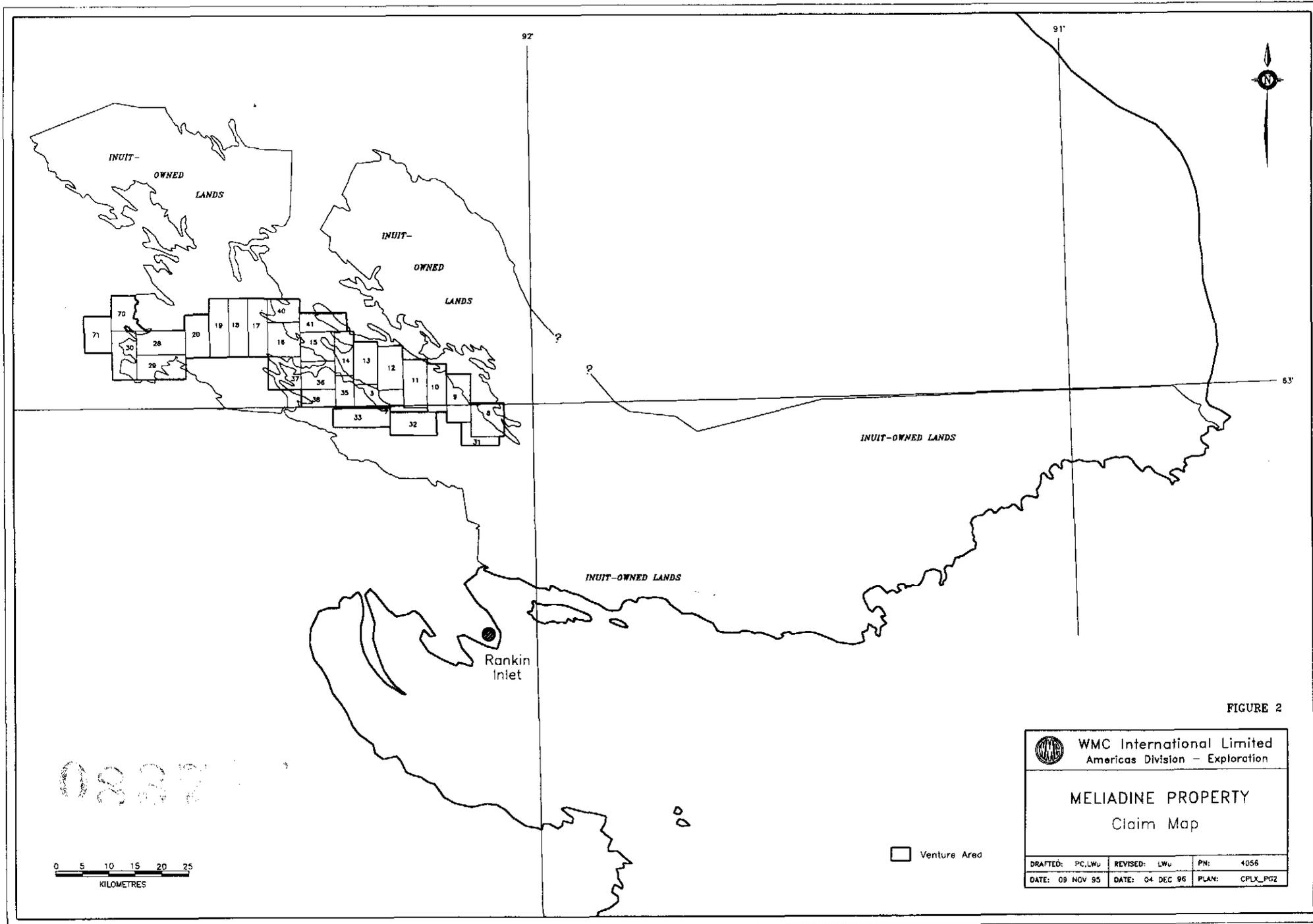
On June 5, 1995 WMC executed an agreement with Comaplex Minerals Corporation and Cumberland Resources Limited that gives WMC an opportunity to earn 60%, 30% from each Comaplex and Cumberland, on the Property through a series of cash payments and work commitments. WMC is the operator of the property through the term of the agreement.

Surface rights are held by Nunavut Inuit Association called Nunavut Tunngavik Inc. 1994 (NTI) and administered by the Kivalliq Inuit Association (KIA).

## **6.0 PREVIOUS WORK**

### **6.1 GOVERNMENT**

There has been no detailed bedrock mapping programs undertaken in the immediate area of Nat 28 and NAT 29. The regional geology is best presented by Tella and Shau (1994). However, the local geology and descriptions of iron formation hosted gold mineralization from inferred similar geology 50 km to the east is described by Armitage et al (1993) and Miller et al (1995).



The Quaternary geology of the Keewatin is poorly understood and is best described by Dyke and Dredge (1989). However, extensive research has been undertaken to understand the effects of the Keewatin Ice Divide by Lee (1959), Lee et al (1957) and Aylsworth and Shilts (1989). The surficial geology of the area has been interpreted dominantly through airphoto interpretation by Aylsworth et al (1984).

Research has also been directed towards the formation and characteristics of frost (mud) boils (Shilts, 1978 and Egginton, 1979). The effects of the Tyrrell Sea, a post glacial marine incursion that affected the Hudson Bay area has also been studied (Craig, 1969).

## **6.2 INDUSTRY**

NAT 28 and NAT 29 have seen very limited exploration in the past. Only 2 assessment reports are currently available in the public domain. ASAMARA Minerals Inc. completed limited geological, geochemical and geophysical surveys on NTS maps 55K/16, 55N/1 and 55N/2 in 1991 (Clarke, 1992) and 1992 (Clarke, 1993).

## **7.0 GENERAL GEOLOGY**

### **7.1 REGIONAL GEOLOGY**

The Meliadine property is underlain by rocks of the Rankin Inlet Group within the Hearne Structural Province (Figure 3). The Hearne Structural Province consists mainly of Archean rocks that have been subjected to a dominant Proterozoic deformation and metamorphism. Archean rocks are unconformably overlain by and structurally interlayered with Proterozoic Hurwitz Group ortho-quartzite.

The geology of the Rankin Inlet Group has been described in detail by Bannatyne (1958), Laporte (1983), Tella et al (1992) and Tella(1994). Rankin Inlet Group rocks represent a typical greenstone belt assemblage of ultramafic to felsic volcanic rocks with minor iron formation and greywacke-turbidite sequences. A minimum age for volcanism in the Rankin Inlet Group is established at 2665 +/- 3Ma (Tella et al, 1994). These rocks were then multiply deformed and metamorphosed in both Archean and Proterozoic time. Metamorphism of the Rankin Inlet Group is generally lower to middle greenschist facies.

### **7.2 LOCAL GEOLOGY**

Good descriptions of the local geology can be found in Armitage et al (1993) and Miller et al (1995). The Meliadine West property covers 40 km of a deformation zone located on the southern edge of a pair of oxide iron formations. Four main phases of deformation have been recognized (Miller et al, 1995).



WMC International Limited  
Americas Division - Exploration

# MELIADINE PROJECT

## Regional Geology of the NE Churchill Province

### LEGEND

#### Proterozoic

-  Sandstone
-  Granite
-  Rhyolite
-  Alkaline Basalt and Sandstones
-  Quartzite (Hurwitz Group)

#### Archean

-  Mafic Volcanics and Gabbros
-  Gneisses and Granitoids

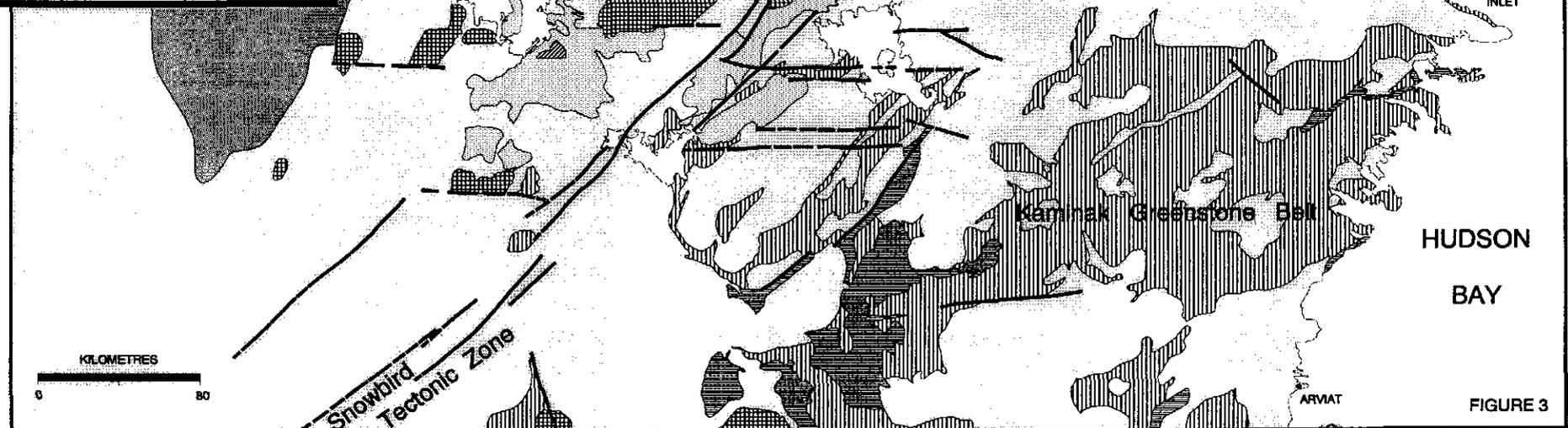


FIGURE 3

The deformation zone, referred to as the Pyke Fault, is characterized by a zone of intense foliation development and carbonitization over a 100 - 500 m width. Near the Pyke Fault a moderately dipping sequence of rock consisting of volcanic rocks at its base and sediments at its top is separated by a pair of oxide facies iron formation. Iron formations are locally auriferous and mineralization and alteration are described in detail in Miller et al (1995).

The geology on NAT 28 and NAT 29 as mapped by ASAMARA indicates the dominant exposed lithology consists of foliated mafic volcanics. Lesser amounts of biotite gneiss and oxide iron formation were also mapped. Auriferous boulders were also located.

## **8.0 QUATERNARY GEOLOGY**

### **8.1 REGIONAL QUATERNARY GEOLOGY**

The Quaternary geology of the Keewatin is poorly understood when compared to southern Canada. The character and distribution of the Quaternary deposits have been determined mostly by airphoto interpretation supplemented with limited reconnaissance ground mapping (Dyke and Dredge, 1989).

The physiography of the west coast of Hudson Bay area has been classified as Coastal Plain, an area affected by late-glacial marine transgression of the Tyrrell Sea and subsequent regression (Lee 1959). Lee (1959) further subdivided the Meliadine area as belonging to "The Zone of Terraced Drift", characterized by its glacial landforms, notably drumlins and eskers which dominate the landscape.

Glacial landforms associated with the Keewatin Ice Divide were studied by Aylsworth and Shilts (1989). The Meliadine area was classified as Zone 2, characterized by the distribution of ribbed (Rogen) moraine as well as extensive drumlin fields and well developed esker systems.

### **8.2 LOCAL QUATERNARY GEOLOGY**

The most dominant ice flow direction was to the southeast. Glaciogenic sediments are dominated by till but also include glaciofluvial deposits primarily in the form of eskers. Glaciomarine sediment although aerially extensive is very thin to non-existent.

Aylsworth et al (1984) indicate the property is dominated by a sandy, silty noncalcareous grey till plain, ribbed (Rogen) moraine described as a bouldery till and minor bedrock exposures.

## 9.0 1996 EXPLORATION PROGRAM

The 1996 exploration program was conducted during the months of June to December, 1996. The work consisted of:

- 1) planning/preparation for helicopter-assisted till sampling program
- 2) implementation/completion of helicopter-assisted till sampling program
- 3) interpretation of results
- 4) and related activities.

The personnel who participated in the 1996 exploration program and the dates worked are included in Appendix I.

A limited helicopter-assisted till sampling program was completed on claims Nat 28 and Nat 29 as part of a larger till sampling program on WMC's Meliadine claim group. The program was designed to identify anomalous concentrations of Au in till that could be traced up-ice to its bedrock source. The 1996 exploration program was implemented from WMC's Meliadine camp located on the south shore of Meliadine Lake (542100E, 6988950N, UTM Zone 15). A Bell 206L helicopter was used to complete the survey.

The program consisted of collecting 10 kg till samples from frost boils every 500 m on lines that were spaced 1 km apart. Samples were collected by shovel from depths between 0 cm and 60 cm and placed in large 6 ml plastic bags. An aluminium marker with the sample number was left at each site. Since there was excellent topographic control, sample locations were plotted on 1:50 000 topographic maps (55N/2) and subsequently digitized at WMC's Nepean, Ontario, exploration office.

On July 12 and August 22, 1996, a total of 31 till samples were collected on claims NAT 28 and NAT 29 as shown in Table 1.

Table 1

### BREAKDOWN OF TILL SAMPLES BY CLAIM GROUP

<u>NAT 28</u>	<u>NAT 29</u>
CS205508 - 509	CS205517 - 522
CS205516	CS205530 - 535
CS205523 - 529	CS205543 - 544
CS205536 - 542	
<hr/>	<hr/>
17 SAMPLES	14 SAMPLES
<b><u>TOTAL: 31 SAMPLES</u></b>	

The samples were subsequently flown back to WMC's field camp at Meliadine Lake where they were placed in large pre-labelled rice bags for shipping. The rice bags were flown by helicopter to M & T Enterprises in Rankin Inlet who handled expediting the samples to Overburden Drilling Management (ODM) of Nepean, Ontario.

The till samples were processed at ODM by water sluicing the bulk till on a shaker table to remove "light" mineral grains. A methylene iodide separation was used to further separate the heavy minerals (S.G. >3.3) from the "lights" (S.G. <3.3). The heavy mineral fraction was further separated by a magnetic separation and the entire non-magnetic fraction (approximately 30 g) referred to as a heavy mineral concentrate (HMC) was analyzed by the non-destructive Instrumental Neutron Activation Analysis (INAA) for gold and multi-element geochemistry by ACTIVATION Laboratories Ltd. of Ancaster, Ontario. Due to high background noise levels for base metals associated with the INAA, a 1 g sample of the HMC was also analyzed for base metals by ICP following an Aqua Regia digestion.

The <63 micron fraction of the bulk till was forwarded to BONDAR CLEGG in Ottawa, Ontario. A 30 g sample was analyzed for Au by FA/DCP and multi-element geochemistry was determined on a 1 g sample by ICP following an Aqua Regia digestion. ODM also recovered, counted and measured gold grains from the processed 10 kg till samples. Clast counts on the 8 mm to 16 mm size fraction based on a number of dominant litho-types was also performed by ODM.

## **10.0 RESULTS OF 1996 EXPLORATION PROGRAM**

### **10.1 BEDROCK GEOLOGY**

Bedrock mapping was not a priority during the geochemical till sampling program. However, outcrops were noted on 1:50 000 topographic maps and geologic mapping is proposed for the 1997 field season.

### **10.2 QUATERNARY GEOLOGY**

Although not studied in detail, observations regarding the surficial geology were made during the till sampling program. NAT 28 and NAT 29 are characterized by drumlinoid ridges striking 135-315, consistent with the late glacial regional trend. Glacial striae and glacial groove measurements recorded on a number of outcrops yielded similar orientations. Stoss/lee bedrock topography indicated ice moved to the southeast (MAP 1). The presence of Dubwant Group clasts noted in till, sourced 200 km to the northwest, further supports southeast ice flow (Appendix VI).

Evidence of the late glacial marine incursion by the Tyrrell Sea includes the presence of marine shells, raised beaches and wave modified drumlinoid ridges. Although aerially extensive, the effects of the Tyrrell Sea appear to be minimal.

### 10.3 GEOCHEMISTRY

As previously mentioned, a total of 31 till samples were collected from frost boils during the 1996 exploration program from Nat 28 and NAT 29. Sample locations are presented at a scale of 1:10 000 on Map 1. UTM co-ordinates for the 31 till samples are located in Appendix II. (All UTM co-ordinates are in NAD 27.)

Results for total gold grains recovered are presented in Appendix III and presented on Map 2. Recovered gold grains vary from 0 to 43 grains per 10 kg sample. A large spatially coherent anomaly (>10 gold grains) occurs between Peter Lake and Diana Lake with a smaller anomaly in the northeast corner of NAT 28.

HMC results for Au and As are presented in Appendix IV. HMC Au results are presented on Map 3 and only 2 sites are considered anomalous (>1000 ppb Au). HMC Au values range from a minimum of <7 ppb Au to a maximum of 2620 ppb Au. Both anomalous sites fall within the large total gold grain anomaly presented on Map 1. HMC As results indicate values between <2 to 320 ppm As (Map 4). Although not considered highly anomalous the highest As values are, in general, associated with the large total gold grain anomaly.

Results for the <63 micron size fraction are presented in Appendix V. The <63 micron gold values range from a low of <1 ppb to a high of 50 ppb Au. Clearly, a background in the <63 micron size fraction of 1 to 2 ppb Au characterizes the NAT 28 and NAT 29 claims (Map 5). Three of the highest values of 9, 19 and 50 ppb Au form a spatially coherent anomaly on the south shore of Peter Lake. One outlier of 20 ppb Au occurs on the north shore of Diana Lake. However, this anomaly is probably the result of the "nugget effect" in the <63 micron size fraction since the total gold grains recovered in the 10 kg till were a mere 7 gold grains and the HMC Au for the same sample returned a value of only 184 ppb Au. Similar to HMC As, the <63 microns As had a minimum value of <5 ppm As and a maximum value of 313 ppm As (Map 6).

Based on the limited information collected to date, the probable source for the Au-As anomalies is located in the vicinity of Peter Lake possibly on the adjoining western claim, NAT 30. The highest total gold grain count, HMC As and <63 micron As are associated with till sample CS205523. This sample also returned the second highest HMC Au and the third highest <63 microns Au result from the 31 samples collected on NAT 28 and NAT 29.

A second gold source may exist on the north shore of Diana Lake.

Additional follow-up till sampling and bedrock mapping is recommended.

Clast counts were also performed and tabulated results are presented in Appendix VI. Although difficult to make quantitative interpretations with limited clast data and no field

mapping completed to date, clast counts for iron formation and mafic volcanic clasts are present on Maps 7 and 8, respectively for future reference.

## **11.0 CONCLUSIONS**

A total of 31 till samples were collected from frost boils during a helicopter-assisted till sampling program on WMC's claims NAT 28 and NAT 29 during the 1996 exploration program. Bulk 10 kg till samples were collected by shovel and processed by Overburden Drilling Management (ODM). ODM recovered gold grains, heavy mineral concentrates (HMCs) and pebbles associated with the 8 mm to 16 mm size fraction. The HMCs were analyzed by ACTIVATION Laboratories Ltd. for Au and multi-element geochemistry. A portion of the <63 micron size fraction was also analyzed for Au and multi-element geochemistry by BONDAR CLEGG.

Results indicate a large spatially coherent total gold grain anomaly is present within the claims. HMC Au-As and <63 micron Au-As anomalies are also presented although aurally more restrictive. A source for the gold may exist near the shore of Peter Lake possibly on NAT 30 the adjoining claim to the west. A second source may exist on the north shore of Diana Lake.

Field evidence, namely striations, stoss/lee topography, the presence of Dubwant Group clasts and oriented glacial landforms such as drumlinoid ridges, indicate glacial ice moved to the southeast (135). Effects of a late glacial marine incursion are minimal although aurally significant.

## **12.0 RECOMMENDATIONS**

Additional follow-up till sampling to better define the source of the gold recovered in till samples collected during the 1996 exploration program is recommended in two areas:

- 1) near the shore of Peter Lake and
- 2) near the shore of Diana Lake.

Detailed geologic mapping is also recommended to gain an understanding of the various rock types present within the claim group and to determine the regional and local structure of the area.

Detailed geophysics is also recommended, in particular magnetics, in order to determine bedrock geology under till cover. An auriferous iron formation is known to exist immediately west of NAT 28 and NAT 29, the strike extension of which may occur on these claims.

Diamond drilling will ultimately be required to test geochemical/geophysical anomalies.

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**EXPENDITURES**

## EXPENDITURES

### SALARIES

Brommecker	Project Manager 1 day @ \$300/day	\$ 300
Goodwin	Geochemist 10 days @ \$250/day	\$2500
Everest	Geologist 1 day @ \$200/day	\$ 200
Baker	Geologist 1 day @ \$200/day	\$ 200
Collins	Geologist 2 days @ \$200/day	\$ 400

### HELICOPTER

Cost	5 hours @ \$700/hr	\$3500
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### GEOCHEMICAL

ODM*	31 samples @ \$101/sample	\$3131
ACTLABS	31 samples @ \$21/sample	\$ 651
BONDAR	31 samples @ \$24/sample	\$ 744

### TRANSPORTATION

Airfare		\$ 950
Shipping		\$1050

### LOGISTICS

Camp Costs	\$30/day x 5 days	\$ 150
Consumables**		<u>\$ 250</u>

**TOTAL \$14 026**

NAT 28: 17 of 31 tills = 55%

NAT 29: 14 of 31 tills = 45%

**EXPENDITURES FOR NAT 28 (55% of \$14 026) ... \$7 714**

**EXPENDITURES FOR NAT 29 (45% of \$14 026) ... \$6 312**

\* includes preparation of heavy mineral concentrate, gold grain counting/panning, clast washing/counting etc...

\*\*includes till bags, Kraft bags, shipping bags, markers, pencils, aluminum tags, flagging, sample tag booklets, topographic maps, airphotos, safety equipment etc...

**STATEMENT OF QUALIFICATIONS**

## STATEMENT OF QUALIFICATIONS

I, Terry A. Goodwin, of the City of Nepean, Province of Ontario, do hereby certify that:

- 1) I am a Geochemist/Quaternary Geologist with WMC International Limited, residing at 506 Chartrand Street, Russell, Ontario.
- 2) I am a graduate of Acadia University having received a Bachelor of Science degree in Geology (1982).
- 3) I am a graduate of the Nova Scotia Land Survey Institute (renamed to the College of Geographic Sciences) having received a Diploma in Remote Sensing (1986).
- 4) I supervised and performed the geochemical work covered by this report.

Dated at the City of Nepean, this 18<sup>th</sup> day of December, 1996.

*Terry A. Goodwin*  
Terry A. Goodwin  
Geochemist/Quaternary Geologist

**APPENDIX I**

**PERSONNEL**

## PERSONNEL

The following WMC International Ltd. personnel and/or its contractors participated in the 1996 exploration program:

<u>NAME/TITLE</u>	<u>ADDRESS</u>	<u>DATES WORKED (1996)</u>
Rex Brommecker/Project Manager	Nepean, Ont.	June 28
Terry Goodwin/Geochemist	Nepean, Ont.	June 28
		July 12
		Aug. 22
		Oct. 23
		Nov. 27
		Dec. 2, 3, 4, 5, 6
Jon Everest/Geologist	Nepean, Ont.	Aug. 22
Charles Baker/Geologist	London, Ont.	July 12
Anne Collins/Database Geologist	Nepean, Ont.	Nov. 19
		Dec. 6
Dan Kennedy/Pilot	Winnipeg, Man.	July 12
		Aug. 22

**APPENDIX II**

**TILL SAMPLE LOCATIONS  
UTM CO-ORDINATES**

**TILL SAMPLE LOCATIONS  
UTM CO-ORDINATES**

	<b>SAMPLE #</b>	<b>UTM-E</b>	<b>UTM-N</b>
<b><u>NAT 28</u></b>			
	CS 205508	513317	6991439
	CS 205509	513285	6991657
	CS 205516	513309	6990992
	CS 205523	513942	6991017
	CS 205524	514093	6991380
	CS 205525	514012	6991992
	CS 205526	514917	6992528
	CS 205527	515002	6992014
	CS 205528	515098	6991520
	CS 205529	515013	6990536
	CS 205536	515990	6991017
	CS 205537	515932	6991914
	CS 205538	516014	6992542
	CS 205539	517000	6992431
	CS 205540	517004	6991865
	CS 205541	516911	6991426
	CS 205542	516995	6991004
<b><u>NAT 29</u></b>			
	CS 205517	513425	6989881
	CS 205518	513949	6988636
	CS 205519	514013	6988993
	CS 205520	514126	6989560
	CS 205521	514011	6990008
	CS 205522	514008	6990406
	CS 205530	514996	6990005
	CS 205531	514897	6989561
	CS 205532	514872	6988821
	CS 205533	516158	6989570
	CS 205534	516007	6990018
	CS 205535	515871	6990481
	CS 205543	516917	6990478
	CS 205544	516956	6990081

**NOTE:**

All samples in UTM Zone 15  
All co-ordinates in NAD 27

## **APPENDIX III**

### **GOLD GRAIN COUNTS OVERBURDEN DRILLING MANAGEMENT**

**NOTE: Only samples CS 205508, 509, and 516 to 544 pertain to this report. The other samples were collected on different claims and will be reported accordingly.**

OVERBURDEN DRILLING MANAGEMENT LIMITED  
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1  
TELEPHONE: (613) 226-1771/1774  
FAX NO: (613) 226-8753

D A T A T R A N S M I T T A L R E P O R T

DATE: 17-Sep-96  
ATTENTION: MR. T. GOODWIN  
CLIENT: WMC International Limited  
Americas Division - Exploration  
22 Gurdwara Road  
Nepean, Ont.  
K2E 8A2  
Fax 727-3970

NO. OF PAGES: \_\_\_\_\_

PROJECT: CS4056 205501 to 205515

FILE NO: WMC\WMTG1AUG.WR2

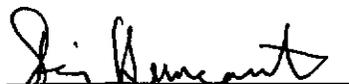
NO. OF SAMPLES: 15

NO. OF PANNINGS: 12

H. M. C.   
3/4 H \_\_\_\_\_  
-63 MICRON \_\_\_\_\_  
-125 MICRON \_\_\_\_\_

SENT TO Activation ANALYTICAL LAB.

REMARKS: -63 microns sent to Bondar & Clegg.

  
Remy Huneault  
Laboratory Manager



OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

ABBREVIATIONS

DATA LOG

Clast:

Size of Clast:  
 G: Granules  
 P: Pebbles  
 C: Cobbles  
 BL: Boulder Chips  
 BK: Bedrock Chips

x Clast Composition:  
 V/S: Volcanics and Sediments  
 GR: Granitics  
 LS: Limestone  
 OT: Other Lithologies  
 (Refer to Footnotes)  
 TR: Only Trace Present  
 NA: NOT APPLICABLE  
 OX: Oxidized

Class:

BLD: Boulder Chips  
 BDK: Bedrock Chips

Matrix:

S/U: Sorted or Unsorted  
 SD: Sand ----- | F: Fine  
 ST: Silt | M: Medium  
 CY: Clay | C: Coarse  
 OR: Organics

Y: Fraction Present  
 +: Fraction more abundant than normal  
 -: Fraction less abundant than normal  
 N: Fraction Not Present  
 L: Luaps Present

Colour:

B: Beige	PP: Purple
GY: Grey	PK: Pink
GB: Grey Beige	OC: Ochre
GN: Green	
GG: Grey Green	L: Light
BN: Brown	M: Medium
BK: Black	D: Dark

GOLD LOG

Number of Grains:

T: Number Found on Shaking Table  
 P: Number Found by Panning

Thickness:

C: Calculated Thickness of Grain (in microns)  
 M: Actual Measured Thickness of Grain (in microns)

Remarks:

%	Percentage of HMC (estimated from panning of table concentrate)
gr.	Grains (estimated number)
µM	Microns (1/1000 mm)
py.	Pyrite
cpy.	Chalcopyrite
aspy.	Arsenopyrite
marc.	Marcasite
L/G.	Limonite/Goethite
sid.	Siderite

## OVERBURDEN DRILLING MANAGEMENT LIMITED

## GOLD GRAIN SUMMARY SHEET

WMC\WMTG1AUG.WR2

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
CS4056									
205501	9	8	1	0	18.3	36	15	20	0
205502	18	4	10	4	25.2	173	86	77	11
205503	0	0	0	0	36.7	0	0	0	0
205504	2	1	1	0	30.3	3	3	1	0
205505	8	5	3	0	36.8	2	1	1	0
205506	6	1	3	2	45.1	9	1	5	4
205507	197	0	8	189	39.7	9363	0	1123	8240
205508	19	4	5	10	17.7	42	8	25	9
205509	18	0	11	7	21.1	155	0	150	5
205510	8	5	1	2	29.6	10081	10077	3	1
205511	7	6	1	0	22.4	150	141	9	0
205512	4	2	0	2	13.2	64	21	0	43
205513	8	5	3	0	18.2	97	70	26	0
205514	2	1	0	1	20.7	27	18	0	9
205515	1	0	0	1	23.4	1	0	0	1



LD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

WMC\WMTG1AUG.WR2

TOTAL # OF PANNINGS 12

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS				NON MAG GMS	CALC V.G. PPB	REMARKS			
		DIAMETER	THICKNESS	RESHAPED		MODIFIED					PRISTINE		TOTAL
				T	P	T	P				T	P	
4056													
205501	Y	15 X	15	3 C	1				1	No sulphides.			
		15 X	25	4 C	1				1				
		25 X	25	5 C	4				4				
		25 X	50	8 C	2				2				
		50 X	75	13 C		1			1				
									9	18.3	36		
205502	Y	15 X	15	3 C	2			1	3	No sulphides.			
		15 X	25	4 C		1			1				
		15 X	50	7 C			1		1				
		25 X	25	5 C	1		1		2				
		25 X	50	8 C		4			4				
		50 X	50	10 C		3	1		4				
		50 X	75	13 C		1			1				
		50 X	100	15 C			1		1				
		100 X	125	22 C	1				1				
									18	25.2	173		
205503	N	NO VISIBLE GOLD											
205504	N	25 X	25	5 C		1			1				
		25 X	50	8 C	1				1				
									2	30.3	3		
205505	N	15 X	15	3 C	3	1			4				
		15 X	25	4 C	2	1			3				
		25 X	25	5 C		1			1				
									8	36.8	2		
205506	Y	25 X	25	5 C	1	2			3	Tr. pyrite (~50 grains of pyrite)			
		25 X	50	8 C			2		2				
		50 X	50	10 C			1		1				
									6	45.1	9		
205507	Y	15 X	15	3 C				35	35	No sulphides.			
		15 X	25	4 C		1		3	4				
		15 X	50	7 C				6	6				
		15 X	75	9 C				7	7				
		25 X	25	5 C		3		42	1	46			
		25 X	50	8 C		1		24	3	28			

WORLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

MCNMMTG1AUG.WR2

TOTAL # OF PANNINGS 12

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
		DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
				T	P	T	P	T	P				
4056		25 X 75	10 C					15	4	19			
		25 X 100	13 C					1		1			
		25 X 125	15 C					2	1	3			
		50 X 50	10 C					6	3	9			
		50 X 75	13 C			1		10	7	18			
		50 X 100	15 C					4	2	6			
		50 X 125	18 C					1	1	2			
		75 X 75	15 C					1		1			
		75 X 100	18 C					1		1			
		75 X 125	20 C				1		2	3			
		75 X 125	50 M					1		1			
		100 X 150	75 M					1		1			
		150 X 225	75 M						1	1			
		175 X 250	25 M						1	1			
		175 X 325	25 M						1	1			
		200 X 200	75 M						1	1			
		275 X 275	75 M			1				1			
		375 X 600	125 M						1	1			
										197	39.7	936.3	
205508	Y	15 X 15	3 C			1		7		8			No sulphides.
		15 X 25	4 C	1		1				2			
		25 X 25	5 C	2		2		2		6			
		25 X 50	8 C	1					1	2			
		50 X 75	13 C			1				1			
										19	17.7	42	
205509	Y	15 X 15	3 C			4		3		7			No sulphides.
		15 X 25	4 C			1		1		2			
		25 X 25	5 C			3		3		6			
		25 X 50	8 C			1	1			2			
		100 X 150	25 C			1				1			
										18	21.1	155	
205510	Y	15 X 25	4 C					1		1			No sulphides.
		25 X 25	5 C					1		1			
		25 X 50	8 C	1		1				2			
		50 X 50	10 C	1						1			
		50 X 75	13 C	1						1			
		75 X 125	20 C	1						1			
		400 X 550	175 M			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

WMC\WMTG1AUG.WR2

TOTAL # OF PANNINGS 12

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS				NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS			
		DIAMETER	THICKNESS	RESHAPED		MODIFIED					PRISTINE		TOTAL
				T	P	T	P				T	P	

4056

8 29.6 10081

205511	Y	25 X 50	8 C	1					1	No sulphides.
		25 X 75	10 C	1	1				2	
		50 X 75	13 C	2					2	
		50 X 100	15 C	1					1	
		75 X 125	20 C	1					1	

7 22.4 150

205512	Y	25 X 50	8 C	1					1	No sulphides.
		25 X 75	10 C				1		1	
		50 X 50	10 C		1				1	
		50 X 75	13 C				1		1	

4 13.2 64

205513	Y	25 X 25	5 C			1			1	No sulphides.
		25 X 50	8 C	2	1				3	
		50 X 75	13 C	3		1			4	

8 18.2 97

205514	Y	25 X 75	10 C					1	1	No sulphides.
		50 X 75	13 C	1					1	

2 20.7 27

205515	Y	25 X 25	5 C					1	1	No sulphides.
--------	---	---------	-----	--	--	--	--	---	---	---------------

1 23.4 1

OVERBURDEN DRILLING MANAGEMENT LIMITED  
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1  
TELEPHONE: (613) 226-1771/1774  
FAX NO: (613) 226-8753

D A T A T R A N S M I T T A L R E P O R T

DATE: 29-Oct-96  
ATTENTION: MR. T. GOODWIN  
CLIENT: WMC International Limited  
Americas Division - Exploration  
22 Gurdwara Road  
Nepean, Ont.  
K2E 8A2  
Fax 727-3970

NO. OF PAGES: 9

PROJECT: CS 4056 205516 to 205544

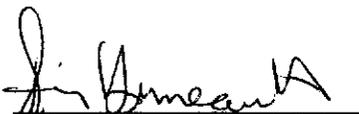
FILE NO: WMC\WMTG2OCT.WR2

NO. OF SAMPLES: 29

NO. OF PANNINGS: 16

H.M.C.  sent to Actlabs  
3/4 H   
-63 MICRON  SENT TO Bondar + Clegg ANALYTICAL LAB.  
-125 MICRON

REMARKS: Finalized data. This completes sample batch  
205516 to 205544. Pebbles logging in progress.

  
Remy Huneault  
Laboratory Manager

OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

ABBREVIATIONS

DATA LOG

Clast:

Size of Clast:  
 G: Granules  
 P: Pebbles  
 C: Cobbles  
 BL: Boulder Chips  
 BK: Bedrock Chips

% Clast Composition:  
 V/S: Volcanics and Sediments  
 GR: Granitics  
 LS: Limestone  
 OT: Other Lithologies  
 (Refer to Footnotes)  
 TR: Only Trace Present  
 NA: NOT APPLICABLE  
 OX: Oxidized

Class:

BLD: Boulder Chips  
 BDK: Bedrock Chips

Matrix:

S/U: Sorted or Unsorted  
 SD: Sand ----- | F: Fine  
 ST: Silt | M: Medium  
 CY: Clay | C: Coarse  
 OR: Organics  
  
 Y: Fraction Present  
 +: Fraction more abundant than normal  
 -: Fraction less abundant than normal  
 N: Fraction Not Present  
 L: Lumps Present

Colour:

B: Beige	PP: Purple
GY: Grey	PK: Pink
GB: Grey Beige	OC: Ochre
GN: Green	
GG: Grey Green	L: Light
BN: Brown	M: Medium
BK: Black	D: Dark

GOLD LOG

Number of Grains:

T: Number Found on Shaking Table  
 P: Number Found by Panning

Thickness:

C: Calculated Thickness of Grain (in microns)  
 M: Actual Measured Thickness of Grain (in microns)

Remarks:

%	Percentage of HMC (estimated from panning of table concentrate)
gr.	Grains (estimated number)
µm	Microns (1/1000 mm)
py.	Pyrite
cpy.	Chalcopyrite
aspy.	Arsenopyrite
marc.	Marcasite
L/G.	Limonite/Goethite
sid.	Siderite

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

WMC\WMTG2001.WR2

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
CS 4056									
205516	1	1	0	0	2.8	4	4	0	0
205517	7	2	3	2	50.9	3	1	2	0
205518	1	1	0	0	3.9	21	21	0	0
205519	0	0	0	0	15.7	0	0	0	0
205520	5	2	2	1	21.4	10	8	2	1
205521	1	1	0	0	14.4	13	13	0	0
205522	3	0	1	2	20.0	161	0	51	110
205523	43	3	2	38	20.9	525	26	27	473
205524	33	13	3	17	24.2	138	64	35	38
205525	7	0	3	4	19.3	57	0	17	41
205526	2	0	2	0	17.3	403	0	403	0
205527	2	0	2	0	15.7	88	0	88	0
205528	19	10	7	2	24.5	39	11	26	1
205529	13	6	6	1	16.1	66	5	55	5
205530	40	21	10	9	16.8	349	262	67	21
205531	25	15	6	4	26.4	108	83	8	17
205532	7	5	2	0	16.6	59	57	2	0
205533	25	12	5	8	22.0	67	20	3	44
205534	10	4	2	4	24.3	121	103	11	7
205535	20	12	6	2	22.6	2474	2365	108	1
205536	15	8	5	2	29.2	49	12	29	7
205537	6	3	3	0	24.9	38	12	26	0
205538	4	1	3	0	21.8	14	9	5	0
205539	17	10	4	3	43.9	17	14	0	3
205540	12	5	4	3	17.5	269	234	8	27
205541	7	5	0	2	35.5	39	34	0	5
205542	8	6	2	0	11.1	42	22	20	0
205543	9	8	1	0	32.0	32	31	1	0
205544	7	6	1	0	31.7	53	52	1	0





## GOLD CLASSIFICATION

=====

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

UNC\WMTG20CT.WR2

TOTAL # OF PANNINGS

16

## NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		RESHAPED				MODIFIED		PRISTINE		TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
		DIAMETER	THICKNESS	T	P	T	P	T	P						
CS 4056															
205524	Y	10 X	15	3 C					1	1	2				No sulphides.
		15 X	15	3 C	1	1			3	2	7				
		15 X	25	4 C	1				2	2	5				
		15 X	50	7 C						1	1				
		25 X	25	5 C	2	1	1		1		5				
		25 X	50	8 C	3						3				
		25 X	75	10 C	2		1		1	1	5				
		50 X	50	10 C	1				2		3				
		50 X	100	15 C	1			1			2				
											33	24.2	138		
205525	Y	15 X	50	7 C			1				1				No sulphides.
		25 X	25	5 C					1		1				
		25 X	50	8 C			1				1				
		25 X	75	10 C					1	1	2				
		50 X	50	10 C			1				1				
		50 X	75	13 C					1		1				
											7	19.3	57		
205526	N	50 X	75	25 M			1				1				
		125 X	200	31 C			1				1				
											2	17.3	403		
205527	N	25 X	100	13 C			1				1				
		75 X	100	18 C			1				1				
											2	15.7	88		
205528	Y	15 X	15	3 C	2	1			1		4				No sulphides.
		15 X	25	4 C	2		2				4				
		15 X	50	7 C			1				1				
		25 X	25	5 C	3		1		1		5				
		25 X	50	8 C	2		2				4				
		50 X	75	13 C			1				1				
											15	24.5	39		
205529	Y	15 X	15	3 C	2						2				No sulphides.
		15 X	25	4 C	2		1				3				
		15 X	50	7 C			2				2				
		25 X	25	5 C		2	1				3				
		25 X	50	8 C					1		1				

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

C:\WMTG20CT.WR2

TOTAL # OF PANNINGS 16

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. PPB	REMARKS		
		DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL	
				T	P	T	P	T	P					
CS 4056		50 X	75	13 C			2				2			
											13	16.1	66	
205530	Y	10 X	10	2 C	1				1		2			No sulphides.
		15 X	15	3 C	2			1	2		5			
		15 X	25	4 C	1		1		3		5			
		15 X	50	7 C	2		2				4			
		25 X	25	5 C	3	1	2		1		7			
		25 X	50	8 C	3				1		4			
		25 X	75	10 C	2			1	1		4			
		50 X	50	10 C	2		1	1			4			
		50 X	75	13 C		1	1				2			
		50 X	100	15 C	2						2			
		50 X	150	20 C		1					1			
											40	16.8	349	
205531	Y	15 X	15	3 C	3		2		1		6			No sulphides.
		15 X	25	4 C	1		1				2			
		15 X	50	7 C					1		1			
		25 X	25	5 C	3	3	1		1		8			
		25 X	50	8 C	2		2				4			
		50 X	50	10 C	1						1			
		50 X	75	13 C					1		1			
		50 X	100	15 C	1						1			
		75 X	100	18 C	1						1			
											25	26.4	108	
205532	N	15 X	15	3 C	1		1				2			
		25 X	25	5 C	1		1				2			
		25 X	50	8 C	1						1			
		50 X	50	10 C	1						1			
		50 X	100	15 C	1						1			
											7	16.6	59	
205533	Y	15 X	15	3 C	3	1	2		2		8			No sulphides.
		15 X	25	4 C	3		1		1		5			
		15 X	50	7 C	1				1		2			
		25 X	25	5 C	2		2		2		6			
		25 X	50	8 C	1						1			
		25 X	75	10 C					1		1			
		50 X	50	10 C	1						1			

## GOLD CLASSIFICATION

## SIBBLE GOLD FROM SHAKING TABLE AND PANNING

MC\WMTG20CT.WR2

## NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. PPB	REMARKS	
		DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
				T	P	T	P	T	P				
		TOTAL # OF PANNINGS 16											
CS 4056		50 X	100	15 C					1	1			
											25	22.0	67
205534	Y	10 X	15	3 C					2	2			No sulphides.
		15 X	15	3 C	2					2			
		25 X	50	8 C			1		2	3			
		50 X	50	10 C				1		1			
		50 X	75	13 C	1					1			
		75 X	150	22 C	1					1			
											10	24.3	121
205535	Y	15 X	15	3 C	2				1	3			No sulphides.
		15 X	50	7 C				1		1			
		25 X	25	5 C	4		3		1	8			
		25 X	50	8 C		1				1			
		25 X	75	10 C				1		1			
		50 X	50	10 C	1					1			
		50 X	75	13 C		2				2			
		50 X	100	15 C	1					1			
		100 X	125	22 C				1		1			
		125 X	400	100 M		1				1			
											20	22.6	2474
205536	Y	15 X	15	3 C			1			1			No sulphides.
		15 X	25	4 C	2					2			
		25 X	25	5 C	3		1		1	5			
		25 X	50	8 C	2	1	1			4			
		50 X	50	10 C					1	1			
		50 X	75	13 C			1	1		2			
											15	29.2	49
205537	N	15 X	75	9 C	1					1			
		25 X	50	8 C	2		1			3			
		25 X	75	10 C			1			1			
		50 X	75	13 C			1			1			
											6	24.9	38
205538	N	15 X	15	3 C			1			1			
		25 X	25	5 C			1			1			
		25 X	50	8 C			1			1			

## GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

DC\WMTG2DCT.WR2

## NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
		DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
				T	P	T	P	T	P				
CS 4056		50 X	50	10 C	1						1		
											4	21.8	14
205539	Y	15 X	15	3 C		1	3	1	1		6		No sulphides.
		25 X	25	5 C	3	1			1		5		
		25 X	50	8 C	2	2			1		5		
		50 X	50	10 C	1						1		
											17	43.9	17
205540	Y	15 X	15	3 C			1				1		No sulphides.
		25 X	25	5 C	1		2		1		4		
		25 X	50	8 C	3		1		1		5		
		50 X	75	13 C					1		1		
		100 X	175	27 C		1					1		
											12	17.5	269
205541	Y	25 X	25	5 C	1	1					2		No sulphides.
		25 X	50	8 C		2			2		4		
		75 X	100	18 C	1						1		
											7	35.5	39
205542	N	15 X	25	4 C	1						1		
		25 X	25	5 C	3		1				4		
		25 X	50	8 C	2						2		
		50 X	50	10 C			1				1		
											8	11.1	42
205543	N	15 X	15	3 C	1						1		
		25 X	25	5 C	3		1				4		
		25 X	50	8 C	2						2		
		50 X	75	13 C	2						2		
											9	32.0	32
205544	N	25 X	25	5 C	3		1				4		
		50 X	50	10 C	1						1		
		50 X	75	13 C	1						1		
		75 X	100	18 C	1						1		
											7	31.7	53

## **APPENDIX IV**

### **HMC RESULTS ACTIVATION LABORATORIES**

**NOTE: Only samples CS 205508, 509, and 516 to 544 pertain to this report. The other samples were collected on different claims and will be reported accordingly.**

**ACTLABS**

# ACTIVATION LABORATORIES LTD

Invoice No.: 11642  
Work Order: 11871  
Invoice Date: 13-NOV-96  
Date Submitted: 29-OCT-96  
Your Reference: 4056  
Account Number: 621

INTERNATIONAL LIMITED  
PLORATION DIVISION  
GURDWARA ROAD  
EAN, ONTARIO  
NADA K2E 8A2  
ENTION: TERRY A. GOODWIN

## CERTIFICATE OF ANALYSIS

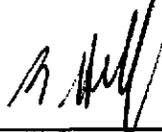
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AA package, elements and detection limits:

5.	PPB	AG	5.	PPM	AS	2.	PPM	BA	200.	PPM
5.	PPM	CA	1.	%	CO	5.	PPM	CR	10.	PPM
2.	PPM	FE	0.02	%	HF	1.	PPM	HG	5.	PPM
50.	PPB	MO	20.	PPM	NA	500.	PPM	NI	200.	PPM
50.	PPM	SB	0.2	PPM	SC	0.1	PPM	SE	20.	PPM
0.2	%	TA	1.	PPM	TH	0.5	PPM	U	0.5	PPM
4.	PPM	ZN	200.	PPM	LA	1.	PPM	CE	3.	PPM
10.	PPM	SM	0.1	PPM	EU	0.2	PPM	TB	2.	PPM
0.2	PPM	LU	0.1	PPM						

1642B - AQUA REGIA - ICP

CERTIFIED BY :



DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 11871 Report: 11642

Sample description	AU PPB	AG PPM	AS PPM	BA PPH	BR PPM	CA %	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA PPM	NI PPM	RB PPM	SB PPM	SC PPM	SE PPM	SR %	TA PPM	TH PPM	U PPM
CS205201	1790	<5	31	<200	<5	11	31	260	<2	21.5	140	<5	<50	<20	3170	<200	<50	1.0	65	<20	<0.2	11	60	21
CS205202	708	<5	19	<200	<5	10	31	290	<2	21.9	150	<5	<50	<20	4200	<200	<50	0.4	72	<20	<0.2	13	58	19
CS205203	2260	<5	21	<200	<5	9	32	240	<2	20.2	130	<5	<50	<20	3720	<200	<50	1.1	62	<20	<0.2	11	48	18
CS205204	1880	<5	18	<200	<5	9	26	190	<2	16.9	110	<5	<50	<20	2790	<200	<50	0.6	52	<20	<0.2	7	44	16
CS205205	3730	<5	60	<200	<5	15	41	270	<2	21.9	150	<5	<50	21	3350	<200	<50	1.8	63	25	<0.2	12	61	19
CS205206	955	<5	34	<200	<5	7	39	250	<2	23.8	170	<5	<50	<20	3240	520	<50	1.6	69	<20	<0.2	12	71	24
CS205207	3000	<5	30	<200	<5	11	37	240	<2	21.0	150	<5	<50	<20	3220	<200	<50	1.3	61	<20	<0.2	8	60	21
CS205208	1500	<5	43	<200	<5	10	47	200	<2	17.2	120	<5	<50	<20	2890	<200	<50	<0.2	53	<20	<0.2	6	47	12
CS205209	3050	<5	17	<200	<5	8	28	240	5	19.3	130	<5	<50	<20	3150	310	<50	<0.2	59	<20	<0.2	10	52	17
CS205210	1060	<5	11	<200	<5	16	29	280	<2	16.2	310	<5	<50	<20	3730	<200	<50	<0.3	75	<20	<0.2	16	82	36
CS205211	3930	<5	140	<200	<5	9	39	230	<2	23.2	130	<5	<50	<20	2750	<200	<50	1.7	55	<20	<0.2	10	52	17
CS205212	3120	<5	76	<200	<5	13	39	270	<2	25.1	190	<5	<50	<20	3030	<200	<50	1.4	66	<20	<0.2	12	78	23
CS205213	3640	<5	91	<200	<5	9	40	300	<2	27.7	220	<5	<50	<20	2820	<200	<50	1.5	68	<20	<0.2	11	74	25
CS205214	4370	<5	120	500	<5	8	52	280	<2	25.0	180	<5	<50	<20	2910	<200	<50	1.6	64	<20	<0.2	10	72	23
CS205215	11000	<5	67	<200	<5	4	51	360	<2	35.3	170	<5	<50	<20	2970	<200	<50	<0.2	61	<20	<0.2	10	84	20
CS205216	2730	7	66	<200	<5	8	46	230	<2	22.3	150	<5	<50	<20	2940	<200	<50	<0.2	60	<20	<0.2	8	58	19
CS205217	8080	<5	120	<200	<5	8	36	280	<2	30.7	120	<5	<50	<20	2210	<200	<50	1.2	62	<20	<0.2	12	64	21
CS205218	3210	17	740	<200	<5	10	100	240	<2	24.0	140	<5	<50	<20	3270	<200	<50	4.2	61	<20	<0.2	11	52	23
CS205219	995	<5	45	400	<5	3	48	230	<2	21.9	120	<5	<50	<20	3030	<200	<50	1.0	55	<20	<0.2	10	53	18
CS205220	234	<5	50	<200	<5	8	57	250	<2	24.7	150	<5	<50	<20	3090	<200	<50	1.3	56	<20	<0.2	8	60	15
CS205221	3740	<5	100	560	<5	8	53	230	<2	21.9	180	<5	<50	<20	3070	<200	<50	0.6	64	<20	<0.2	7	66	26
CS205222	1960	<5	18	<200	<5	10	32	220	<2	20.1	190	<5	<50	20	3010	<200	<50	1.1	60	<20	<0.2	10	63	23
CS205223	1800	<5	25	<200	<5	6	36	250	<2	21.2	170	<5	<50	<20	3930	<200	<50	<0.2	63	<20	<0.2	9	62	20
CS205224	2670	<5	58	400	<5	7	54	210	<2	21.7	210	<5	<50	<20	3260	<200	<50	1.1	62	<20	<0.2	9	69	29
CS205225	2470	<5	48	<200	<5	5	48	220	<2	21.4	200	<5	<50	<20	2840	<200	<50	1.2	61	<20	<0.2	7	64	22
CS205226	5630	<5	70	<200	<5	8	43	210	<2	21.0	190	<5	<50	<20	2920	<200	<50	<0.2	62	<20	<0.2	10	65	21
CS205227	2000	<5	420	270	<5	8	55	240	<2	22.8	190	<5	<50	<20	2900	<200	<50	1.9	65	32	<0.2	9	70	25
CS205228	11200	<5	63	<200	<5	10	31	270	<2	22.0	210	<5	<50	24	3480	<200	<50	<0.2	70	<20	<0.2	12	79	32
CS205229	1070	<5	21	<200	<5	7	32	200	<2	18.9	180	<5	<50	<20	2550	<200	<50	0.9	57	<20	<0.2	8	68	24
CS205501	245	<5	12	440	<5	9	34	150	<2	21.7	160	<5	<50	<20	3530	<200	<50	0.9	53	<20	<0.2	6	69	16
CS205502	480	<5	19	680	<5	14	49	220	<2	27.1	130	<5	<50	24	4270	<200	<50	<0.2	59	<20	<0.2	14	100	27
CS205503	25	<5	12	<200	<5	10	41	200	<2	30.5	210	<5	<50	<20	3780	500	<50	1.1	61	<20	<0.2	12	110	34
CS205504	175	<5	390	<200	<5	6	52	260	<2	34.2	130	<5	<50	<20	3460	<200	<50	2.5	52	<20	<0.2	10	63	19
CS205505	120	<5	24	620	<5	8	46	190	3	23.1	130	<5	<50	<20	5010	<200	<50	1.7	58	<20	<0.2	10	77	22
CS205506	66	<5	8	<200	<5	8	35	160	3	24.4	92	<5	<50	<20	2870	<200	<50	1.0	45	<20	<0.2	7	57	16
CS205507	8280	<5	180	<200	<5	13	37	170	<2	22.2	160	<5	<50	<20	4480	<200	<50	<0.2	61	<20	<0.2	10	70	24
CS205508	105	<5	80	<200	<5	8	59	230	<2	30.2	120	<5	<50	<20	4650	<200	<50	<0.2	55	<20	<0.2	9	81	23
CS205509	455	<5	28	<200	<5	7	37	200	<2	27.3	130	<5	<50	<20	3420	<200	<50	0.9	49	<20	<0.2	9	77	24
CS205510	7550	<5	20	<200	<5	8	57	220	<2	29.8	130	<5	<50	<20	3390	<200	<50	1.1	59	<20	<0.2	15	98	26
CS205511	478	<5	45	<200	<5	<3	47	290	<2	44.3	140	<5	<50	26	1850	<200	<50	2.5	51	<20	<0.2	10	140	29
CS205512	60	<5	12	<200	<5	10	37	210	<2	21.3	270	<5	<50	<20	4060	<200	<50	<0.2	55	<20	<0.2	11	130	32
CS205513	230	<5	16	<200	<5	<3	42	230	4	28.0	220	<5	<50	31	4620	<200	<50	<0.2	64	<20	<0.2	13	160	39
CS205514	41	<5	22	<200	<5	<2	43	200	<2	27.3	140	<5	<50	<20	3630	370	<50	1.1	59	<20	<0.2	12	93	23
CS205515	245	<5	42	<200	<5	14	44	230	<2	25.1	200	<5	<50	<20	4870	<200	<50	1.5	68	<20	<0.2	10	130	28
CS205516	420	<5	28	<200	<5	<2	41	300	<2	32.8	310	<5	<50	20	2880	<200	<50	0.6	53	22	<0.2	15	200	38

Activation Laboratories Ltd. Work Order: 11871 Report: 11642

Sample description	AU PPB	AG PPM	AS PPM	BA PPM	BR PPM	CA ‡	CO PPM	CR PPM	CS PPM	FE ‡	HF PPM	HG PPM	IR PPB	MO PPM	NA PPM	NI PPM	RB PPM	SB PPM	SC PPM	SE PPM	SR ‡	TA PPM	TR PPM	U PPM
CS205517	66	<5	150	<200	<5	10	44	190	<2	22.3	92	<5	<50	<20	2580	<200	<50	1.2	47	<20	<0.2	6	46	15
CS205518	23	<5	<2	<200	<5	8	26	140	<2	20.0	84	<5	<50	23	1740	<200	<50	<0.2	61	<20	<0.2	8	120	14
CS205519	142	<5	39	<200	<5	6	40	170	<2	21.1	42	<5	<50	<20	1340	<200	<50	<0.2	38	<20	<0.2	4	33	5.7
CS205520	<7	<5	83	<200	<5	5	45	250	<2	38.9	110	<5	<50	<20	2090	<200	<50	<0.2	50	<20	<0.2	12	76	18
CS205521	541	<5	65	<200	<5	<2	35	180	<2	25.1	180	<5	<50	<20	2510	<200	<50	<0.2	49	<20	<0.2	7	64	19
CS205522	283	<5	130	<200	<5	7	45	290	<2	33.1	200	<5	<50	<20	2750	400	<50	1.4	57	25	<0.2	18	120	41
CS205523	1300	<5	320	<200	<5	14	52	260	<2	30.9	220	<5	<50	<20	3890	<200	<50	2.2	54	<20	<0.2	13	140	30
CS205524	422	<5	92	<200	<5	<2	45	250	<2	32.2	190	<5	<50	<20	3380	<200	<50	<0.2	53	<20	<0.2	11	110	28
CS205525	116	<5	38	800	<5	<3	40	280	<2	45.6	240	<5	<50	32	1910	<200	<50	2.1	49	<20	<0.2	19	120	33
CS205526	810	<5	8	<200	<5	6	27	190	<2	21.5	260	<5	<50	<20	1810	610	<50	0.6	57	<20	<0.2	10	110	22
CS205527	222	<5	22	440	<5	5	43	190	4	31.4	170	<5	<50	<20	1340	<200	<50	0.7	46	<20	<0.2	10	73	18
CS205528	108	<5	14	<200	<5	9	36	260	<2	37.0	210	<5	<50	<20	1620	<200	<50	1.8	60	<20	<0.2	17	110	31
CS205529	136	<5	49	<200	<5	6	40	230	<2	33.4	230	<5	<50	<20	1820	<200	<50	1.6	48	26	<0.2	11	85	24
CS205530	485	<5	23	<200	<5	<2	41	220	<2	26.0	200	<5	<50	20	1410	<200	<50	<0.2	30	<20	<0.2	6	32	9.9
CS205531	180	<5	100	<200	<5	<2	42	280	<2	38.2	190	<5	<50	<20	1940	<200	<50	1.8	50	<20	0.2	14	110	27
CS205532	143	<5	22	<200	<5	6	37	190	<2	27.4	250	<5	<50	<20	2280	<200	<50	1.2	50	<20	<0.2	8	94	25
CS205533	186	<5	160	<200	<5	4	37	160	<2	22.7	180	<5	<50	<20	1780	<200	<50	0.3	48	<20	<0.2	9	73	20
CS205534	151	<5	7	<200	<5	6	37	260	<2	38.5	140	<5	<50	<20	2480	<200	<50	1.4	46	<20	<0.2	11	100	26
CS205535	2620	<5	17	<200	<5	<2	38	270	<2	26.6	190	<5	<50	<20	3030	<200	<50	1.7	54	30	<0.2	11	78	27
CS205536	82	<5	40	<200	<5	7	40	240	<2	36.2	170	<5	<50	23	2760	<200	<50	1.7	56	<20	<0.2	17	100	27
CS205537	183	<5	9	<200	<5	10	37	240	<2	21.7	230	<5	<50	33	5200	310	<50	<0.2	62	27	<0.2	14	130	30
CS205538	90	<5	12	<200	<5	13	36	280	<2	32.8	230	<5	<50	<20	2770	<200	<50	1.3	63	<20	<0.2	14	140	32
CS205539	114	<5	23	<200	<5	<3	42	250	<2	31.0	180	<5	<50	<20	3320	<200	<50	<0.2	57	<20	<0.2	13	97	25
CS205540	486	<5	13	<200	<5	8	41	200	<2	23.0	170	<5	<50	<20	2120	<200	<50	<0.2	54	25	<0.2	7	63	17
CS205541	264	<5	14	<200	<5	<3	42	240	<2	36.3	190	<5	<50	<20	2370	<200	<50	1.9	59	<20	<0.2	19	110	30
CS205542	110	<5	<2	<200	<5	11	35	230	<2	33.6	290	<5	<50	36	2780	<200	<50	1.4	61	41	<0.2	8	93	28
CS205543	151	<5	8	490	<5	6	36	280	<2	37.2	180	<5	<50	<20	2350	<200	<50	1.8	55	<20	<0.2	16	87	25
CS205544	184	<5	100	<200	<5	<3	48	270	<2	30.0	190	<5	<50	<20	2460	<200	<50	1.3	60	<20	<0.2	12	130	30

Activation Laboratories Ltd. Work Order: 11871 Report: 11642

Sample description	W PPM	ZN PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	Mass g
CS205201	40	<200	160	390	150	33	10.0	5	22.7	3.8	41.00
CS205202	31	279	170	390	180	36	10.4	5	24.5	3.9	32.00
CS205203	<4	<200	160	360	150	31	9.4	5	20.1	3.5	42.00
CS205204	<4	<200	140	290	130	26	7.9	4	17.3	2.7	57.00
CS205205	53	256	200	420	170	37	11.0	7	23.5	3.8	40.00
CS205206	39	<200	190	430	160	38	11.5	7	24.9	4.2	35.00
CS205207	34	<200	190	420	140	36	10.5	6	23.3	3.9	35.00
CS205208	34	<200	160	360	180	29	8.6	4	18.7	3.0	50.00
CS205209	<4	205	190	390	170	31	9.7	6	21.0	3.4	50.00
CS205210	<5	293	250	570	200	48	13.9	8	35.7	6.2	21.00
CS205211	26	<200	180	390	140	30	8.6	5	19.6	3.2	50.00
CS205212	35	<200	240	520	210	43	12.3	7	27.3	4.3	35.00
CS205213	36	212	250	550	220	43	12.0	7	29.6	4.9	30.00
CS205214	<4	<200	230	510	220	43	13.3	7	25.9	4.7	30.00
CS205215	<4	235	210	490	240	40	10.6	4	25.0	4.3	18.00
CS205216	28	236	200	410	160	35	10.5	6	23.3	3.6	40.00
CS205217	37	<200	180	380	160	30	8.5	5	22.8	3.6	40.00
CS205218	69	229	170	360	140	30	8.7	6	19.9	3.4	33.00
CS205219	98	217	170	350	140	27	7.6	5	18.7	3.1	45.00
CS205220	<4	<200	190	390	150	30	8.6	5	23.5	3.7	45.00
CS205221	53	<200	210	400	140	29	8.6	6	26.8	4.3	47.00
CS205222	<4	<200	210	410	160	30	9.0	6	27.1	4.5	49.00
CS205223	29	256	210	420	140	32	9.5	6	27.1	4.3	39.00
CS205224	<5	<200	220	410	160	29	9.7	6	27.3	4.6	52.00
CS205225	<5	232	210	400	140	28	8.7	5	25.8	4.6	50.00
CS205226	<5	299	200	390	150	29	9.5	6	26.9	4.6	46.00
CS205227	37	<200	210	430	180	30	8.9	6	27.9	4.7	40.00
CS205228	<6	<200	250	490	150	34	10.6	6	34.2	5.4	40.00
CS205229	36	<200	190	390	150	28	8.2	5	25.1	4.3	40.00
CS205501	41	210	220	400	150	29	7.2	4	22.6	3.3	16.00
CS205502	46	274	250	540	230	40	9.4	5	23.5	3.9	23.00
CS205503	60	306	270	510	170	32	8.3	5	28.8	4.8	34.00
CS205504	36	312	140	320	100	21	5.4	4	21.5	3.3	28.00
CS205505	62	<200	230	460	170	34	7.4	4	19.6	3.2	34.00
CS205506	29	264	150	300	100	22	5.6	4	15.9	2.7	43.00
CS205507	68	318	190	380	150	27	7.7	5	25.4	4.5	38.00
CS205508	130	292	200	450	180	32	8.0	4	23.2	3.5	16.00
CS205509	130	369	190	400	160	30	7.7	5	23.6	3.9	19.00
CS205510	68	257	230	500	190	36	8.8	5	23.7	3.9	28.00
CS205511	90	204	300	640	240	42	8.3	<2	27.3	4.5	21.00
CS205512	40	<200	380	700	270	45	9.2	7	28.7	3.5	11.00
CS205513	48	212	400	860	390	59	12.6	9	30.6	5.3	16.00
CS205514	69	<200	210	460	170	33	8.7	6	24.4	4.0	19.00
CS205515	54	<200	340	700	270	51	11.1	8	29.0	4.8	21.00
CS205516	120	350	530	1120	430	70	10.2	8	35.0	5.2	1.500

Activation Laboratories Ltd. Work Order: 11871 Report: 11642

Sample description	W PPM	ZN PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	Mass g
CS205517	<4	409	130	240	71	16	4.5	<2	20.6	3.3	48.00
CS205518	52	310	304	541	170	32	6.7	6	20.3	2.8	3.000
CS205519	21	310	88	180	66	13	3.5	3	15.6	1.6	13.00
CS205520	44	326	180	410	120	26	6.8	4	24.2	3.9	18.00
CS205521	48	560	220	420	180	28	5.3	5	25.5	2.6	12.00
CS205522	82	627	300	640	230	44	9.6	7	33.9	5.7	17.00
CS205523	120	258	350	740	250	47	10.0	6	27.5	4.6	18.00
CS205524	100	299	290	610	190	40	9.1	5	25.3	4.0	21.00
CS205525	66	<200	250	560	220	40	9.4	7	30.3	4.8	16.00
CS205526	75	<200	340	610	250	42	9.9	8	30.4	3.3	14.00
CS205527	110	<200	190	370	160	27	6.6	5	19.6	2.6	13.00
CS205528	100	<200	260	570	230	42	10.0	8	31.0	4.9	21.00
CS205529	55	470	240	420	190	30	8.6	5	24.9	3.1	13.00
CS205530	35	500	110	210	82	14	2.9	3	15.2	1.6	14.00
CS205531	100	317	240	500	190	36	8.3	6	27.1	4.5	23.00
CS205532	73	290	270	500	200	34	7.1	6	26.4	3.5	13.00
CS205533	65	330	220	400	150	29	7.7	6	23.1	2.8	19.00
CS205534	44	220	220	460	190	33	7.5	<2	20.8	3.7	21.00
CS205535	57	1060	190	430	160	30	7.8	5	26.9	4.4	20.00
CS205536	48	224	240	510	190	37	8.5	6	31.5	5.3	26.00
CS205537	62	208	370	760	290	54	12.4	7	29.9	4.7	22.00
CS205538	130	<200	370	800	290	57	12.7	8	33.6	5.2	19.00
CS205539	39	<200	260	520	200	37	9.6	7	26.0	3.9	40.00
CS205540	100	240	220	410	170	30	9.6	5	22.6	2.4	15.00
CS205541	63	283	250	570	200	41	11.3	7	27.3	4.6	32.00
CS205542	58	<200	280	570	230	41	12.1	8	33.5	3.9	9.000
CS205543	54	<200	190	410	130	30	8.3	5	24.8	4.3	29.00
CS205544	53	290	300	620	240	45	11.9	7	27.5	4.7	28.00

SAMPLE	Ag ppm	Cu ppm	Ni ppm	Zn ppm	Cd ppm	Mn ppm	Pb ppm
CS205201	-0.2	13	13	6	0.6	432	17
CS205202	-0.2	34	30	7	-0.5	596	19
CS205203	-0.2	69	15	8	0.7	479	12
CS205204	1.0	28	16	8	0.7	369	15
CS205205	-0.2	68	25	8	0.6	819	19
CS205206	-0.2	54	68	11	-0.5	967	21
CS205207	-0.2	56	21	28	-0.5	740	16
CS205208	-0.2	137	37	12	0.6	710	14
CS205209	0.5	36	16	10	0.5	555	16
CS205210	-0.2	30	50	4	0.5	918	7
CS205211	1.0	107	27	13	0.5	1010	22
CS205212	-0.2	95	57	10	0.7	835	32
CS205213	1.7	37	22	8	-0.5	788	20
CS205214	0.8	127	52	27	-0.5	813	20
CS205215	0.5	91	80	12	-0.5	1270	32
CS205216	-0.2	96	21	9	0.5	506	13
CS205217	-0.2	15	14	6	0.9	701	19
CS205218	-0.2	186	86	20	2.5	978	15
CS205219	-0.2	162	19	8	-0.5	667	16
CS205220	-0.2	510	63	12	0.7	881	20
CS205221	-0.2	207	29	31	0.6	862	19
CS205222	-0.2	140	44	14	0.5	954	21
CS205223	-0.2	52	23	13	0.7	791	16
CS205224	-0.2	84	47	12	0.7	730	16
CS205225	-0.2	54	25	9	0.8	700	20
CS205226	-0.2	133	42	12	0.6	771	15
CS205227	-0.2	145	30	12	2.2	893	17
CS205228	3.5	59	48	12	0.7	918	19
CS205229	-0.2	56	23	15	-0.5	853	16
CS205501	-0.2	54	61	20	0.5	996	20
CS205502	-0.2	325	27	10	0.7	1040	23
CS205503	-0.2	34	43	12	-0.5	946	30
CS205504	-0.2	46	22	56	2.5	877	28
CS205505	-0.2	134	42	12	0.7	726	9
CS205506	-0.2	71	18	8	-0.5	1450	13
CS205507	1.2	104	65	12	0.5	1060	16
CS205508	-0.2	60	31	11	0.5	1200	16
CS205509	-0.2	92	57	6	-0.5	1640	17
CS205510	-0.2	33	25	7	-0.5	1120	30
CS205511	-0.2	87	82	6	-0.5	1540	39
CS205512	-0.2	38	19	11	-0.5	986	23
CS205513	-0.2	57	53	14	0.6	1120	24
CS205514	-0.2	48	25	4	-0.5	1280	26
CS205515	-0.2	79	50	11	-0.5	1030	18
CS205516	-0.2	82	80	6	0.6	1520	38

SAMPLE	Ag ppm	Cu ppm	Ni ppm	Zn ppm	Cd ppm	Mn ppm	Pb ppm
CS205517	-0.2	32	27	2	0.6	672	10
CS205518	-0.2	27	20	-1	-0.5	1360	16
CS205519	-0.2	45	57	5	-0.5	3160	10
CS205520	-0.2	36	19	4	-0.5	1120	16
CS205521	-0.2	42	54	11	-0.5	2160	17
CS205522	-0.2	24	22	5	0.6	955	22
CS205523	0.3	402	49	17	1.4	1220	19
CS205524	-0.2	252	40	6	0.6	1060	22
CS205525	-0.2	16	17	4	-0.5	902	39
CS205526	-0.2	31	35	-1	0.8	1290	24
CS205527	-0.2	67	21	-1	-0.5	1010	37
CS205528	-0.2	61	45	-1	-0.5	956	30
CS205529	-0.2	24	16	5	-0.5	751	28
CS205530	-0.2	32	42	7	0.5	995	15
CS205531	-0.2	41	92	3	-0.5	786	27
CS205532	-0.2	159	31	4	0.5	963	24
CS205533	-0.2	34	18	2	0.7	895	24
CS205534	-0.2	40	38	5	-0.5	973	34
CS205535	-0.2	17	17	10	0.6	793	19
CS205536	-0.2	27	36	4	0.6	1020	31
CS205537	-0.2	35	18	15	0.5	828	14
CS205538	-0.2	124	46	7	0.5	1170	31
CS205539	-0.2	103	16	6	-0.5	572	19
CS205540	0.3	557	68	5	-0.5	807	19
CS205541	-0.2	46	15	-1	-0.5	615	22
CS205542	-0.2	82	48	-1	-0.5	927	31
CS205543	-0.2	19	19	2	-0.5	727	30
CS205544	-0.2	127	34	6	0.6	710	19

## **APPENDIX V**

### **<63 MICRONS RESULTS BONDAR CLEGG**

**NOTE: Only samples CS 205508, 509, and 516 to 544 pertain to this report. The other samples were collected on different claims and will be reported accordingly.**



# Inchcape Testing Services

## Bondar Clegg

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WMC INTERNATIONAL  
MR. TERRY GOODWIN  
22 GURDWARA RD.  
NEPEAN, ONTARIO  
K2E 8A2

+ + + +



# Inchcape Testing Services

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REPORT: 096-40654.0 ( COMPLETE )

REFERENCE: -

AGENT: WMC INTERNATIONAL

SUBMITTED BY: OVERBURDEN

PROJECT: 4056

DATE PRINTED: 28-OCT-96

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU GOLD FIRE ASSAY	44	1 PPB	FIRE ASSAY	FIRE ASSAY-DCP
2	Ag Silver	44	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
3	Cu Copper	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
4	Pb Lead	44	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
5	Zn Zinc	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
6	Mo Molybdenum	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
7	Ni Nickel	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
8	Co Cobalt	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
9	Cd Cadmium	44	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
10	Bi Bismuth	44	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
11	As Arsenic	44	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
12	Sb Antimony	44	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
13	Fe Iron	44	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
14	Mn Manganese	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
15	Te Tellurium	44	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
16	Ba Barium	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
17	Cr Chromium	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
18	V Vanadium	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
19	Sn Tin	44	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
20	W Tungsten	44	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
21	Hg Mercury	44	0.010 PPM	HCL:HNO3 (3:1)	COLD VAPOR AA
22	La Lanthanum	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
23	Al Aluminum	44	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
24	Mg Magnesium	44	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
25	Ca Calcium	44	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
26	Na Sodium	44	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
27	K Potassium	44	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
28	Sr Strontium	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
29	Y Yttrium	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
30	Ga Gallium	44	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
31	Li Lithium	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
32	Nb Niobium	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
33	Sc Scandium	44	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
34	Ta Tantalum	44	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
35	Ti Titanium	44	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
36	Zr Zirconium	44	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA

Bondar-Clegg & Company Ltd.

5420 Canotek Road, Ottawa, Ontario, K1J 9G2, Canada

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Lab Supervisor



# Inchcape Testing Services

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REFERENCE: -

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PROJECT: 4056

SUBMITTED BY: OVERBURDEN  
DATE PRINTED: 28-OCT-96

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
PREPARED PULP	44	AS RECEIVED	44	AS RECEIVED	44

REPORT COPIES TO: MR. TERRY GOODWIN  
BY FAX: T. GOODWIN

INVOICE TO: MR. TERRY GOODWIN



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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM
CS 205201		16	0.3	21	6	32	<1	23	10	<0.2	<5	69	<5
CS 205202		20	0.3	22	5	35	<1	24	7	<0.2	<5	19	<5
CS 205203		18	0.3	37	7	41	<1	37	10	<0.2	<5	71	<5
CS 205204		25	0.3	32	7	43	<1	34	11	<0.2	<5	37	<5
CS 205205		30	0.3	44	8	40	1	33	10	<0.2	<5	91	<5
CS 205206		24	0.3	24	10	38	<1	32	12	<0.2	<5	81	<5
CS 205207		16	0.3	55	9	49	<1	45	15	<0.2	<5	94	<5
CS 205208		11	0.4	43	8	42	<1	43	16	<0.2	<5	83	<5
CS 205209		9	0.4	41	7	43	<1	44	16	<0.2	<5	38	<5
CS 205210		4	<0.2	6	<2	16	<1	8	2	<0.2	<5	15	<5
CS 205211		52	0.3	56	9	53	<1	48	17	<0.2	<5	161	<5
CS 205212		36	0.3	48	9	43	<1	44	16	<0.2	<5	97	<5
CS 205213		33	0.3	49	9	49	<1	47	14	<0.2	<5	252	<5
CS 205214		40	0.3	45	9	46	<1	46	16	<0.2	<5	132	<5
CS 205215		47	0.3	49	9	48	<1	43	17	<0.2	<5	137	<5
CS 205216		134	0.4	49	10	44	1	47	18	<0.2	<5	127	<5
CS 205217		52	0.4	44	6	48	1	39	12	<0.2	<5	219	<5
CS 205218		21	0.5	107	5	103	2	72	31	<0.2	<5	129	<5
CS 205219		13	0.5	67	5	50	2	53	20	<0.2	<5	108	<5
CS 205220		14	0.3	53	6	30	<1	32	12	<0.2	<5	29	<5
CS 205221		17	0.4	63	6	68	<1	44	20	<0.2	<5	112	<5
CS 205222		3	0.3	47	6	35	2	30	12	<0.2	<5	33	<5
CS 205223		40	0.4	49	11	48	<1	37	13	<0.2	<5	88	<5
CS 205224		12	0.3	43	7	40	<1	34	11	<0.2	<5	64	<5
CS 205225		18	0.3	47	8	43	<1	37	12	<0.2	<5	61	<5
CS 205226		12	0.3	53	5	47	<1	40	15	<0.2	<5	130	<5
CS 205227		23	0.4	61	5	53	<1	46	20	<0.2	<5	103	<5
CS 205228		226	0.2	39	4	30	<1	25	10	<0.2	<5	154	<5
CS 205229		26	0.4	44	4	49	<1	37	13	<0.2	<5	72	<5
CS 205501		3	0.4	28	5	35	2	17	8	<0.2	<5	<5	<5
CS 205502		7	0.7	118	7	60	2	52	13	<0.2	<5	7	<5
CS 205503		3	0.4	26	7	30	1	15	7	<0.2	<5	<5	<5
CS 205504		13	0.8	224	47	253	14	23	14	<0.2	<5	190	<5
CS 205505		3	0.6	99	9	65	2	43	13	<0.2	<5	8	<5
CS 205506		8	0.6	129	7	52	4	31	13	<0.2	<5	7	<5
CS 205507		76	0.5	82	7	48	2	29	11	<0.2	<5	109	<5
CS 205508		11	0.8	242	10	86	3	66	25	<0.2	<5	36	<5
CS 205509		6	0.6	122	8	70	3	50	18	<0.2	<5	12	<5
CS 205510		4	0.6	83	9	61	4	32	13	<0.2	<5	6	<5
CS 205511		2	0.7	77	9	71	3	45	16	<0.2	<5	9	<5

*WB*



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PROJECT: 4056

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	Hg PPM	La PPM	Al PCT	Mg PCT
CS 205201		1.73	135	<10	30	23	28	<20	<20	0.015	25	0.81	0.45
CS 205202		1.54	132	<10	28	25	26	<20	<20	0.014	21	0.84	0.47
CS 205203		1.89	221	<10	56	28	30	<20	<20	0.012	24	0.90	0.51
CS 205204		1.83	153	<10	42	29	31	<20	<20	0.020	23	0.93	0.54
CS 205205		1.93	232	<10	57	26	26	<20	<20	<0.010	20	1.02	0.54
CS 205206		1.89	204	<10	45	24	28	<20	<20	<0.010	25	0.79	0.44
CS 205207		1.91	258	<10	64	28	31	<20	<20	0.017	26	1.03	0.58
CS 205208		2.04	244	<10	61	27	28	<20	<20	<0.010	22	0.91	0.51
CS 205209		2.10	162	<10	41	30	29	<20	<20	<0.010	23	1.01	0.58
CS 205210		1.06	90	<10	19	15	17	<20	<20	<0.010	14	0.53	0.31
CS 205211		2.51	308	<10	47	40	40	<20	<20	<0.010	20	1.30	0.82
CS 205212		2.51	198	<10	37	35	33	<20	<20	<0.010	20	1.03	0.64
CS 205213		2.34	246	<10	47	34	35	<20	<20	<0.010	22	1.12	0.68
CS 205214		2.60	314	<10	49	36	33	<20	<20	<0.010	19	1.05	0.65
CS 205215		2.38	357	<10	55	38	38	<20	<20	<0.010	24	1.14	0.69
CS 205216		2.40	300	<10	48	35	33	<20	<20	<0.010	20	1.02	0.63
CS 205217		3.04	453	<10	64	49	56	<20	<20	0.010	32	1.42	0.86
CS 205218		4.09	634	<10	68	79	85	<20	<20	<0.010	17	1.84	1.26
CS 205219		3.55	497	<10	76	62	75	<20	<20	<0.010	19	1.79	1.00
CS 205220		1.89	207	<10	42	26	29	<20	<20	<0.010	20	0.81	0.47
CS 205221		2.60	385	<10	47	50	53	<20	<20	<0.010	18	1.23	0.82
CS 205222		1.96	242	<10	40	35	35	<20	<20	<0.010	16	1.06	0.60
CS 205223		2.40	242	<10	50	37	39	<20	<20	<0.010	20	1.08	0.66
CS 205224		2.12	217	<10	47	33	33	<20	<20	0.012	20	1.01	0.61
CS 205225		1.85	212	<10	38	34	35	<20	<20	<0.010	20	1.07	0.64
CS 205226		2.72	320	<10	42	42	46	<20	<20	0.011	17	1.12	0.72
CS 205227		2.48	357	<10	43	50	55	<20	<20	<0.010	18	1.31	0.86
CS 205228		1.60	159	<10	27	28	30	<20	<20	<0.010	18	0.77	0.45
CS 205229		2.33	285	<10	70	39	48	<20	<20	<0.010	21	1.13	0.77
CS 205501		1.71	220	<10	58	24	36	<20	<20	<0.010	28	0.89	0.49
CS 205502		2.75	325	<10	116	43	56	<20	<20	<0.010	58	1.67	0.83
CS 205503		1.75	232	<10	65	23	37	<20	<20	0.014	36	0.91	0.44
CS 205504		9.31	292	<10	45	52	74	<20	<20	<0.010	16	1.44	0.77
CS 205505		3.06	357	<10	98	46	64	<20	<20	<0.010	47	1.63	0.90
CS 205506		3.61	413	<10	80	40	54	<20	<20	0.010	29	1.73	0.74
CS 205507		2.72	301	<10	63	40	53	<20	<20	<0.010	26	1.33	0.70
CS 205508		3.78	449	<10	130	59	77	<20	<20	<0.010	51	1.94	1.09
CS 205509		2.79	362	<10	103	46	62	<20	<20	<0.010	36	1.69	0.89
CS 205510		2.89	316	<10	84	47	58	<20	<20	<0.010	39	1.66	0.81
CS 205511		3.18	426	<10	119	56	70	<20	<20	0.011	54	1.82	1.00

Bondar-Clegg & Company Ltd.

5420 Canotek Road, Ottawa, Ontario, K1J 9G2, Canada

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# Inchcape Testing Services

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SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
CS 205201		0.42	<0.01	0.05	21	6	2	10	<1	<5	<10	0.07	9
CS 205202		0.47	0.01	0.06	20	6	2	10	<1	<5	<10	0.09	7
CS 205203		0.47	0.01	0.09	22	7	2	11	<1	<5	<10	0.08	7
CS 205204		0.49	0.01	0.10	21	7	2	11	<1	<5	<10	0.09	9
CS 205205		0.56	0.02	0.12	22	6	3	10	<1	<5	<10	0.08	10
CS 205206		0.44	0.01	0.06	19	7	<2	9	<1	<5	<10	0.08	6
CS 205207		0.47	0.01	0.10	25	8	3	13	<1	<5	<10	0.07	6
CS 205208		0.54	0.01	0.10	21	7	3	11	<1	<5	<10	0.08	10
CS 205209		0.53	0.01	0.10	22	7	2	13	<1	<5	<10	0.09	10
CS 205210		0.35	<0.01	0.05	14	5	<2	6	<1	<5	<10	0.07	5
CS 205211		0.96	<0.01	0.09	27	6	3	17	<1	<5	<10	0.06	13
CS 205212		0.44	<0.01	0.05	16	7	2	13	<1	<5	<10	0.07	7
CS 205213		0.46	<0.01	0.09	19	7	3	15	<1	<5	<10	0.06	9
CS 205214		0.79	<0.01	0.09	22	6	2	14	<1	<5	<10	0.07	9
CS 205215		0.44	<0.01	0.08	18	7	3	15	<1	<5	<10	0.07	5
CS 205216		0.75	<0.01	0.08	22	7	2	13	<1	<5	<10	0.07	8
CS 205217		0.47	0.01	0.14	14	7	3	17	<1	<5	<10	0.12	4
CS 205218		1.27	<0.01	0.10	18	7	4	21	<1	8	<10	0.09	8
CS 205219		1.49	<0.01	0.18	23	8	4	20	<1	8	<10	0.11	10
CS 205220		0.59	0.01	0.07	20	7	<2	10	<1	<5	<10	0.08	11
CS 205221		1.47	<0.01	0.08	24	7	3	14	<1	5	<10	0.08	8
CS 205222		0.53	0.01	0.08	15	6	3	10	<1	<5	<10	0.07	8
CS 205223		0.62	<0.01	0.08	19	7	3	14	<1	<5	<10	0.07	7
CS 205224		0.54	<0.01	0.07	18	7	2	13	<1	<5	<10	0.07	9
CS 205225		0.66	<0.01	0.06	19	7	3	14	<1	<5	<10	0.06	9
CS 205226		0.74	<0.01	0.08	17	6	2	13	<1	<5	<10	0.08	6
CS 205227		1.20	<0.01	0.08	23	7	3	16	<1	6	<10	0.07	9
CS 205228		0.37	<0.01	0.04	16	7	<2	10	<1	<5	<10	0.06	7
CS 205229		0.70	<0.01	0.10	25	7	3	14	<1	<5	<10	0.08	7
CS 205501		0.56	0.02	0.25	18	8	4	14	<1	<5	<10	0.11	10
CS 205502		1.08	0.04	0.38	35	13	5	24	<1	5	<10	0.15	13
CS 205503		0.57	0.03	0.15	23	9	4	13	<1	<5	<10	0.10	6
CS 205504		0.34	0.01	0.31	11	4	4	13	<1	6	22	0.12	9
CS 205505		0.93	0.06	0.38	25	13	6	24	<1	6	<10	0.16	20
CS 205506		0.67	0.04	0.32	20	9	5	23	<1	5	<10	0.15	11
CS 205507		0.67	0.04	0.27	21	9	5	18	<1	<5	<10	0.14	11
CS 205508		1.03	0.06	0.36	23	13	6	27	<1	7	<10	0.15	12
CS 205509		0.75	0.06	0.29	18	10	6	19	<1	5	<10	0.14	11
CS 205510		0.70	0.04	0.36	18	10	5	25	<1	<5	<10	0.16	10
CS 205511		0.96	0.05	0.38	25	12	6	27	<1	6	<10	0.18	10

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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM
CS 205512		2	0.8	24	9	68	3	32	11	<0.2	<5	<5	<5
CS 205513		3	0.8	32	11	73	3	35	12	<0.2	<5	7	<5
CS 205514		7	0.7	85	9	76	2	37	17	<0.2	<5	<5	<5
CS 205515		1	0.6	61	7	65	2	34	13	<0.2	<5	<5	<5



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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	Hg PPM	La PPM	Al PCT	Mg PCT
CS 205512		2.89	329	<10	109	54	71	<20	<20	<0.010	43	1.89	1.05
CS 205513		3.20	405	<10	135	56	79	<20	<20	<0.010	56	2.01	1.24
CS 205514		2.87	368	<10	90	45	66	<20	<20	<0.010	42	1.73	0.90
CS 205515		2.73	353	<10	98	47	62	<20	<20	0.012	47	1.59	0.86

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SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
CS 205512		3.99	0.07	0.53	129	10	7	29	<1	5	<10	0.18	15
CS 205513		3.54	0.06	0.52	134	14	7	30	<1	6	<10	0.19	17
CS 205514		0.95	0.07	0.29	26	11	6	21	<1	5	<10	0.16	10
CS 205515		0.91	0.04	0.43	23	12	6	25	<1	6	<10	0.17	14

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STANDARD NAME	ELEMENT UNITS	AU PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM
SR-1		40	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-
Mean Value		40.0	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		42	-	-	-	-	-	-	-	-	-	-	-
QC GEOCHEM STD 6		-	0.3	125	12	132	4	141	34	<0.2	<5	140	<5
Number of Analyses		-	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	0.35	125.0	12.4	132.0	3.5	141.0	33.6	0.10	2.5	140.3	2.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	0.2	140	13	140	4	135	35	0.1	1	-	-
ANALYTICAL BLANK		<1	<0.2	1	<2	2	<1	3	<1	<0.2	<5	<5	<5
ANALYTICAL BLANK		-	<0.2	<1	<2	4	<1	2	<1	<0.2	<5	<5	<5
Number of Analyses		1	2	2	2	2	2	2	2	2	2	2	2
Mean Value		0.5	0.10	0.8	1.0	3.0	0.5	2.5	0.5	0.10	2.5	2.5	2.5
Standard Deviation		-	0.000	0.35	0.00	1.41	0.00	0.71	0.00	0.000	0.00	0.00	0.00
Accepted Value		1	0.2	1	2	1	1	1	1	1.0	2	5	5

QC GEOCHEM STD 5		-	1.0	86	8	70	4	34	16	0.2	<5	8	<5
Number of Analyses		-	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	0.97	86.0	7.6	70.0	4.2	34.0	15.5	0.21	2.5	7.8	2.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	0.7	90	11	80	2	40	18	0.1	1	8	1



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STANDARD NAME	ELEMENT UNITS	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	Hg PPM	La PPM	Al PCT	Mg PCT
3-1		-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-

GC GEOCHEM STD 6		6.28	1357	<10	3	172	49	<20	<20	0.036	2	1.79	2.42
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		6.280	1357.0	5.0	3.4	172.2	49.0	10.0	10.0	0.0355	2.2	1.793	2.420
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		6.50	1450	-	6	170	50	5	12	0.028	-	1.80	2.70

ANALYTICAL BLANK		<0.01	<1	<10	<1	<1	<1	<20	<20	<0.010	<1	<0.01	<0.01
ANALYTICAL BLANK		0.01	2	<10	<1	<1	<1	<20	<20	<0.010	<1	<0.01	<0.01
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		0.009	1.3	5.0	0.5	0.5	0.5	10.0	10.0	0.0050	0.5	0.005	0.005
Standard Deviation		0.0051	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00000	0.00	0.0000	0.0000
Accepted Value		0.05	1	<1	<1	1	1	<1	<1	0.005	<1	<0.01	<0.01

GC GEOCHEM STD 5		3.74	699	<10	174	44	112	<20	<20	0.039	6	3.32	1.42
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3.740	699.0	5.0	173.9	44.1	112.0	10.0	10.0	0.0393	5.7	3.318	1.415
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		4.74	720	<1	200	54	133	4	1	-	5	3.09	1.83



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STANDARD NAME	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
IR-1		-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-
CC GEOCHEM STD 6		3.61	<0.01	0.04	61	3	3	20	<1	8	<10	<0.01	8
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3.605	0.005	0.037	61.1	2.6	3.1	20.2	0.5	7.5	5.0	0.005	7.9
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		4.00	0.01	0.04	70	3	-	24	-	6	1	<0.01	5
ANALYTICAL BLANK		<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5	<10	<0.01	<1
ANALYTICAL BLANK		<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5	<10	<0.01	<1
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		0.005	0.005	0.005	0.5	0.5	1.0	0.5	0.5	2.5	5.0	0.005	0.5
Standard Deviation		0.0000	0.0000	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00
Accepted Value		<0.01	<0.01	<0.01	<1	<1	<1	<1	<1	<1	<1	<0.01	<1

CC GEOCHEM STD 5		1.05	0.04	0.28	33	6	8	21	<1	5	<10	0.20	11
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		1.054	0.038	0.284	32.9	6.1	7.6	20.5	0.5	5.4	5.0	0.202	11.4
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		1.08	0.06	0.32	39	9	-	-	1	18	1	-	9

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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM
205205 Duplicate		30	0.3	44	8	40	1	33	10	<0.2	<5	91	<5
			0.3	41	9	41	1	34	10	<0.2	<5	91	<5
205222 Duplicate		3	0.3	47	6	35	2	30	12	<0.2	<5	33	<5
			0.3	47	7	36	2	31	12	<0.2	<5	33	<5
205513 Duplicate		3	0.8	32	11	73	3	35	12	<0.2	<5	7	<5
			0.7	30	12	66	4	34	11	0.8	<5	8	<5



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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	Hg PPM	La PPM	Al PCT	Mg PCT
205205 uplicate		1.93	232	<10	57	26	26	<20	<20	<0.010	20	1.02	0.54
		1.85	228	<10	56	27	28	<20	<20	<0.010	20	0.96	0.52
205222 uplicate		1.96	242	<10	40	35	35	<20	<20	<0.010	16	1.06	0.60
		2.07	246	<10	41	36	37	<20	<20	<0.010	16	1.12	0.61
205513 uplicate		3.20	405	<10	135	56	79	<20	<20	<0.010	56	2.01	1.24
		3.01	389	<10	122	53	70	<20	<20	0.010	55	1.90	1.19



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SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
205205		0.56	0.02	0.12	22	6	3	10	<1	<5	<10	0.08	10
Duplicate		0.53	0.02	0.11	21	6	3	9	<1	<5	<10	0.08	10
205222		0.53	0.01	0.08	15	6	3	10	<1	<5	<10	0.07	8
Duplicate		0.59	0.01	0.09	16	6	3	11	<1	<5	<10	0.08	8
205513		3.54	0.06	0.52	134	14	7	30	<1	6	<10	0.19	17
Duplicate		3.30	0.06	0.49	119	12	6	28	<1	6	<10	0.17	14



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# Inchcape Testing Services

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REPORT: 096-40736.0 ( COMPLETE )

REFERENCE: OVERBURDEN REPORT #659

CLIENT: WMC INTERNATIONAL

SUBMITTED BY: OVERBURDEN

PROJECT: 4056

DATE PRINTED: 11-NOV-96

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

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Lab Supervisor



# Inchcape Testing Services

## Bondar Clegg

Certificate  
of  
Analysis

PORT: 096-40736.0 ( COMPLETE )

REFERENCE: OVERBURDEN REPORT #659

CLIENT: WMC INTERNATIONAL

SUBMITTED BY: OVERBURDEN

OBJECT: 4056

DATE PRINTED: 11-NOV-96

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
PREPARED PULP	29	AS RECEIVED	29	AS RECEIVED	29

REPORT COPIES TO: MR. TERRY GOODWIN

INVOICE TO: MR. TERRY GOODWIN

Bondar-Clegg & Company Ltd.

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*msj*  
Lab Supervisor



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# Certificate of Analysis

CLIENT: WMC INTERNATIONAL  
REPORT: 096-40736.0 ( COMPLETE )

PROJECT: 4056  
DATE PRINTED: 11-NOV-96 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM
CS 205516		<1	<0.2	16	8	49	<1	20	11	<0.2	<5	6	<5
CS 205517		1	<0.2	94	3	67	<1	73	26	<0.2	<5	41	<5
CS 205518		<1	<0.2	12	9	67	<1	20	14	<0.2	<5	<5	<5
CS 205519		<1	<0.2	50	9	56	<1	28	21	<0.2	<5	17	<5
CS 205520		<1	<0.2	52	4	43	<1	37	17	<0.2	<5	16	<5
CS 205521		<1	<0.2	49	4	60	<1	40	19	<0.2	<5	20	<5
CS 205522		2	<0.2	96	6	61	2	63	30	<0.2	<5	19	<5
CS 205523		19	<0.2	83	10	88	<1	36	19	1.1	<5	313	<5
CS 205524		50	<0.2	123	4	58	<1	43	20	0.2	<5	40	<5
CS 205525		<1	<0.2	7	3	14	<1	6	5	<0.2	<5	<5	<5
CS 205526		4	<0.2	17	5	40	3	16	9	0.3	<5	8	<5
CS 205527		9	<0.2	36	5	32	<1	18	13	<0.2	<5	9	<5
CS 205528		<1	<0.2	22	4	27	<1	14	8	<0.2	<5	5	<5
CS 205529		2	<0.2	22	3	25	<1	20	10	<0.2	<5	6	<5
CS 205530		5	<0.2	44	3	42	1	32	13	<0.2	<5	57	<5
CS 205531		2	<0.2	19	4	21	<1	17	9	<0.2	<5	9	<5
CS 205532		8	<0.2	27	4	31	<1	21	9	<0.2	<5	5	<5
CS 205533		9	<0.2	28	3	34	<1	24	11	<0.2	<5	13	<5
CS 205534		4	<0.2	11	4	14	<1	8	6	<0.2	<5	<5	<5
CS 205535		5	<0.2	46	3	39	1	31	13	<0.2	<5	27	<5
CS 205536		<1	<0.2	10	4	16	<1	8	6	<0.2	<5	<5	<5
CS 205537		<1	<0.2	18	4	44	<1	20	11	<0.2	<5	5	<5
CS 205538		1	<0.2	24	4	41	<1	20	11	<0.2	<5	<5	<5
CS 205539		1	<0.2	38	5	23	<1	19	8	<0.2	<5	6	<5
CS 205540		8	<0.2	142	4	54	<1	54	22	<0.2	<5	9	<5
CS 205541		<1	<0.2	43	4	34	<1	22	12	<0.2	<5	8	<5
CS 205542		<1	<0.2	10	3	13	<1	8	7	<0.2	<5	<5	<5
CS 205543		<1	<0.2	25	7	35	<1	17	10	<0.2	<5	14	<5
CS 205544		20	<0.2	51	5	52	<1	36	12	<0.2	<5	23	<5

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## Bondar Clegg

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CLIENT: WMC INTERNATIONAL  
 REPORT: 096-40736.0 ( COMPLETE )

PROJECT: 4056  
 DATE PRINTED: 11-NOV-96 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT
CS 205516		2.15	264	<10	87	34	46	<20	<20	31	1.19	0.88	4.74
CS 205517		3.04	314	<10	160	70	59	<20	<20	23	1.86	1.00	0.60
CS 205518		2.79	323	<10	88	42	52	<20	<20	27	1.52	0.91	0.35
CS 205519		2.72	459	<10	100	47	50	<20	<20	36	1.80	0.78	0.46
CS 205520		2.34	265	<10	121	40	41	<20	<20	25	1.21	0.70	0.48
CS 205521		2.71	321	<10	169	58	52	<20	<20	29	1.57	0.93	0.41
CS 205522		2.50	332	<10	109	45	49	<20	<20	38	1.44	0.78	0.49
CS 205523		2.58	264	<10	97	39	45	<20	<20	30	1.24	0.89	2.47
CS 205524		2.28	269	<10	57	37	40	<20	<20	21	1.23	0.70	0.88
CS 205525		0.97	119	<10	33	11	16	<20	<20	16	0.39	0.20	0.39
CS 205526		1.81	193	<10	58	31	41	<20	<20	25	0.92	0.67	5.10
CS 205527		1.66	231	<10	50	25	31	<20	<20	22	0.79	0.51	0.57
CS 205528		1.51	191	<10	47	20	25	<20	<20	22	0.70	0.44	0.49
CS 205529		1.59	188	<10	58	28	28	<20	<20	23	0.82	0.50	0.53
CS 205530		3.09	251	<10	207	72	58	<20	<20	24	1.75	1.07	0.28
CS 205531		1.42	161	<10	49	22	25	<20	<20	20	0.68	0.36	0.46
CS 205532		1.66	196	<10	67	28	31	<20	<20	28	0.85	0.52	0.52
CS 205533		1.67	188	<10	65	30	30	<20	<20	23	0.85	0.54	0.49
CS 205534		1.08	133	<10	32	13	18	<20	<20	19	0.46	0.23	0.45
CS 205535		2.51	221	<10	142	60	47	<20	<20	26	1.44	0.90	0.28
CS 205536		1.24	155	<10	39	12	19	<20	<20	22	0.50	0.27	0.51
CS 205537		2.07	239	<10	88	34	39	<20	<20	28	1.16	0.82	2.63
CS 205538		2.03	256	<10	86	34	36	<20	<20	35	1.12	0.74	0.65
CS 205539		1.29	156	<10	56	17	20	<20	<20	19	0.59	0.32	0.54
CS 205540		2.46	344	<10	53	38	37	<20	<20	19	1.25	0.81	1.10
CS 205541		1.89	210	<10	65	29	34	<20	<20	22	0.86	0.60	0.48
CS 205542		1.01	136	<10	26	11	17	<20	<20	17	0.39	0.20	0.46
CS 205543		1.63	186	<10	32	28	30	<20	<20	12	0.91	0.53	0.35
CS 205544		2.16	228	<10	64	35	34	<20	<20	27	1.03	0.72	0.68



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SAMPLE NUMBER	ELEMENT UNITS	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	Hg PPM
CS 205516		0.07	0.39	192	7	4	17	7	<5	<10	0.12	13	0.016
CS 205517		0.06	0.59	18	6	6	22	7	<5	<10	0.14	11	0.067
CS 205518		0.03	0.33	18	6	8	22	8	<5	<10	0.15	4	0.091
CS 205519		0.05	0.30	17	7	5	22	7	<5	<10	0.10	3	0.059
CS 205520		0.04	0.42	23	6	4	15	5	<5	<10	0.12	10	0.034
CS 205521		0.04	0.60	19	7	5	20	6	<5	<10	0.13	15	0.033
CS 205522		0.04	0.41	24	9	4	19	6	<5	<10	0.12	8	<0.010
CS 205523		0.06	0.37	115	8	4	17	6	<5	<10	0.11	10	0.026
CS 205524		0.07	0.22	25	6	3	13	5	<5	<10	0.10	8	0.028
CS 205525		0.02	0.08	23	5	<2	4	2	<5	<10	0.06	6	0.014
CS 205526		0.06	0.29	174	7	3	13	7	<5	<10	0.10	10	0.011
CS 205527		0.04	0.18	23	6	3	10	3	<5	<10	0.10	9	0.017
CS 205528		0.03	0.18	24	6	2	10	4	<5	<10	0.10	5	0.019
CS 205529		0.04	0.24	27	6	2	10	4	<5	<10	0.09	11	0.012
CS 205530		0.04	0.76	13	5	6	21	7	<5	<10	0.14	16	0.023
CS 205531		0.03	0.18	21	6	3	7	3	<5	<10	0.08	8	<0.010
CS 205532		0.03	0.26	24	7	3	11	4	<5	<10	0.10	9	0.017
CS 205533		0.03	0.26	19	6	3	11	4	<5	<10	0.09	9	0.011
CS 205534		0.03	0.08	24	6	<2	4	3	<5	<10	0.07	5	<0.010
CS 205535		0.03	0.57	11	5	5	18	5	<5	<10	0.11	16	<0.010
CS 205536		0.03	0.09	29	7	<2	5	3	<5	<10	0.08	8	0.019
CS 205537		0.06	0.34	124	7	4	16	6	<5	<10	0.12	10	<0.010
CS 205538		0.04	0.36	31	8	3	16	5	<5	<10	0.13	11	<0.010
CS 205539		0.03	0.16	26	6	2	6	3	<5	<10	0.08	10	0.011
CS 205540		0.05	0.23	25	7	3	13	4	<5	<10	0.10	8	<0.010
CS 205541		0.03	0.17	20	6	3	11	4	<5	<10	0.10	5	0.019
CS 205542		0.03	0.06	20	5	<2	3	2	<5	<10	0.07	8	<0.010
CS 205543		0.03	0.09	14	4	3	11	4	<5	<10	0.08	3	0.021
CS 205544		0.03	0.28	31	7	3	14	5	<5	<10	0.10	12	0.013

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# Inchcape Testing Services

## Bondar Clegg

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CLIENT: WMC INTERNATIONAL  
REPORT: 096-40736.0 ( COMPLETE )

PROJECT: 4056  
DATE PRINTED: 11-NOV-96 PAGE 2A

STANDARD NAME	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM
MAFIC ROCK STANDARD		102	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-
Mean Value		102.4	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-
CCC GEOCHEM STD 4		-	0.7	290	30	257	3	40	10	1.1	<5	30	<5
Number of Analyses		-	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	0.66	290.1	29.9	256.9	3.1	39.6	9.9	1.06	2.5	29.7	2.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	0.5	290	33	255	4	42	9	0.8	1	30	1
ANALYTICAL BLANK		<1	<0.2	<1	<2	<1	<1	<1	<1	<0.2	<5	<5	<5
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.5	0.10	0.5	1.0	0.5	0.5	0.5	0.5	0.10	2.5	2.5	2.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		1	0.2	1	2	1	1	1	1	1.0	2	5	5



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STANDARD NAME	ELEMENT UNITS	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT
MAFIC ROCK STANDARD		-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-
MAFIC GEOCHEM STD 4		2.77	559	<10	60	74	7	<20	<20	4	0.82	1.28	1.42
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		2.768	558.8	5.0	60.4	74.3	6.6	10.0	10.0	3.8	0.820	1.283	1.419
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		2.40	600	<1	55	80	9	1	1	4	0.77	1.34	1.43
ANALYTICAL BLANK		<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.005	0.5	5.0	0.5	0.5	0.5	10.0	10.0	0.5	0.005	0.005	0.005
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		0.05	1	<1	<1	1	1	<1	<1	<1	<0.01	<0.01	<0.01



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STANDARD NAME	ELEMENT UNITS	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	Hg PPM
MAFIC ROCK STANDARD		-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-
CCC GEOCHEM STD 4		0.05	0.15	41	3	<2	6	1	<5	<10	<0.01	11	0.035
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.049	0.151	41.1	2.8	1.0	5.7	1.4	2.5	5.0	0.005	11.4	0.0351
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		0.04	0.14	39	4	2	7	1	12	1	0.01	8	0.030
ANALYTICAL BLANK		<0.01	<0.01	<1	<1	<2	<1	<1	<5	<10	<0.01	<1	<0.010
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.005	0.005	0.5	0.5	1.0	0.5	0.5	2.5	5.0	0.005	0.5	0.0050
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		<0.01	<0.01	<1	<1	<1	<1	<1	<1	<1	<0.01	<1	0.005



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CLIENT: WMC INTERNATIONAL PROJECT: 4056  
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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM
S 205522		2	<0.2	96	6	61	2	63	30	<0.2	<5	19	<5
uplicate		<1	<0.2	93	5	59	2	61	28	<0.2	<5	18	<5
S 205539		1	<0.2	38	5	23	<1	19	8	<0.2	<5	6	<5
uplicate			<0.2	37	4	23	<1	18	8	<0.2	<5	6	<5



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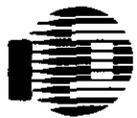
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CLIENT: WMC INTERNATIONAL  
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PROJECT: 4056  
DATE PRINTED: 11-NOV-96 PAGE 38

SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT
S 205522		2.50	332	<10	109	45	49	<20	<20	38	1.44	0.78	0.49
uplicate		2.41	322	<10	106	44	47	<20	<20	37	1.38	0.76	0.47
S 205539		1.29	156	<10	56	17	20	<20	<20	19	0.59	0.32	0.54
uplicate		1.31	160	<10	56	17	21	<20	<20	20	0.60	0.33	0.55



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SAMPLE NUMBER	ELEMENT UNITS	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	Hg PPM
S 205522		0.04	0.41	24	9	4	19	6	<5	<10	0.12	8	<0.010
uplicate		0.04	0.40	23	9	4	18	6	<5	<10	0.12	8	<0.010
S 205539		0.03	0.16	26	6	2	6	3	<5	<10	0.08	10	0.011
uplicate		0.03	0.16	27	6	2	6	3	<5	<10	0.08	10	<0.010

**APPENDIX VI**

**CLASTS COUNTS  
OVERBURDEN DRILLING MANAGEMENT**

**CLAST COUNTS (%)**

8mm - 16mm

ODM

Sample No.	Rankin Greenstone Belt											
	Ultramafic volcanic	Mafic volcanic	Intermediate volcanic and tuff	Felsic volcanic and tuff	Porphyry	Gabbro	Greywacke, siltstone	Iron Formation, chert	Granitic rocks	Syenite	Shear zone	Quartz vein
205508	0	54	0	0	0	0	28	0	0	0	0	0
205509	0	26	0	0	0	0	52	2	0	0	0	2
205516	0	0	0	0	0	0	0	0	0	0	0	0
205517	0	10	0	0	2	0	58	2	6	0	0	2
205518	0	0	0	0	0	0	6	0	20	0	0	0
205519	0	10	0	0	0	0	12	4	10	0	0	0
205520	0	8	0	0	0	0	44	6	0	0	0	6
205521	0	10	0	0	0	0	78	6	0	0	0	4
205522	0	14	0	0	2	0	70	2	0	0	0	6
205523	0	70	0	0	0	4	8	8	0	0	0	0
205524	0	76	0	0	0	4	4	8	0	0	0	0
205525	0	0	0	0	4	2	4	14	14	0	0	2
205526	0	6	0	0	0	2	24	8	6	0	0	0
205527	0	36	4	0	4	2	16	6	4	0	0	4
205528	0	14	0	0	0	0	16	2	4	0	0	4
205529	0	16	0	0	0	2	66	0	2	0	0	8
205530	0	14	0	0	0	0	74	0	0	0	0	10
205531	0	6	2	0	0	0	22	2	2	0	0	4
205532	0	8	0	0	0	0	56	0	4	0	0	0
205533	0	22	0	0	0	6	36	0	4	0	0	2
205534	0	10	0	0	0	2	26	0	4	0	0	6
205535	0	4	0	0	0	0	84	2	0	0	0	2
205536	0	8	0	0	0	0	10	0	4	2	6	6
205537	0	46	0	0	2	2	8	0	10	0	0	0
205538	0	12	0	0	0	4	14	4	8	0	0	2
205539	0	28	0	0	0	6	6	2	2	0	0	2
205540	0	68	0	0	0	0	8	8	4	0	0	6
205541	0	28	0	0	0	6	6	8	0	0	0	0
205542	0	18	0	0	0	0	18	4	0	0	2	0
205543	0	34	0	0	0	4	28	2	2	0	4	6
205544	0	12	0	0	0	0	46	0	0	0	2	2

**CLAST COUNTS (%)**

8mm - 16mm

ODM

Sample No.	<i>Metamorphic Rocks</i>		
	Amphibolite (mafic volcanic protolith)	Fine-grained grey biotitic gneiss (greywacke protolith)	Granitic and other sedimentary gneiss
205508	0	8	8
205509	0	10	6
205516	0	0	0
205517	0	0	16
205518	0	24	50
205519	4	16	38
205520	0	16	18
205521	0	2	0
205522	0	0	6
205523	0	0	6
205524	0	0	6
205525	0	18	38
205526	0	24	28
205527	0	4	18
205528	0	8	44
205529	0	0	6
205530	0	0	0
205531	0	4	50
205532	0	4	26
205533	2	8	12
205534	0	8	38
205535	0	0	8
205536	0	6	52
205537	0	0	30
205538	0	6	44
205539	0	4	42
205540	0	0	6
205541	0	6	40
205542	2	36	14
205543	0	12	6
205544	4	28	4

Sample No.	<i>Proterozoic Rocks</i>		
	Diabase	Dubawnt Formation	Other sediments
205508	0	2	0
205509	0	0	2
205516	0	0	0
205517	0	2	2
205518	0	0	0
205519	0	6	0
205520	0	2	0
205521	0	0	0
205522	0	0	0
205523	0	2	2
205524	0	2	0
205525	0	4	0
205526	0	2	0
205527	0	2	0
205528	0	8	0
205529	0	0	0
205530	0	2	0
205531	0	8	0
205532	0	2	0
205533	0	8	0
205534	0	6	0
205535	0	0	0
205536	0	4	2
205537	0	2	0
205538	0	6	0
205539	0	8	0
205540	0	0	0
205541	0	4	2
205542	0	4	2
205543	0	0	2
205544	0	2	0