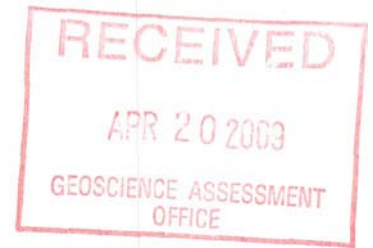


2.41218

2009 DIAMOND DRILL REPORT  
OFF LAKE PROPERTY

Rainy River Resources Limited

Cunningham Patent - Parcel #7863



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Regional Exploration Manager  
6 April, 2009.

## **SUMMARY**

*This report documents and discusses the results of a two hole, 351.83 metre, NQ diamond drill program conducted by Rainy River Resources (RRR) on their Cunningham patented claim which forms part of their Off Lake Property between the 20<sup>th</sup> and 24<sup>th</sup> of February, 2009. The Off Lake Property is located approximately 50 kilometres northwest of Fort Frances in the Rainy River District of north western Ontario.*

*Target generation was based on previous work undertaken by Rainy River Resources' field crews over two field seasons. Consultant Dr. Lorne Ayres conducted geological mapping on outcrops previously mechanically stripped and channel sampled. Overburden Drilling Management completed five RC overburden drill holes in May, 2008. The showings are located on a patented claim owned by Mr. Leroy Cunningham, Parcel #7863, in Potts Township.*

*The diamond drill program was initiated to test anomalous gold and copper values returned from 'northern' and southern' Cunningham outcrops stripped and channel sampled by the company in 2007. The 'southern' outcrop was tested with DDH OL0915, while DDH OL0914 tested the 'northern' outcrop.*

*The current diamond drill program on the Cunningham Block returned extensive anomalous, but sub-grade, copper values along with very low gold values. Although the Cunningham patent outcrops are of significant geological interest, the economic potential of the area has been downgraded as a result of the diamond drilling.*

*Given the Rainy River Resource's focus on gold resources, future prospecting activity in the Off Lake area should concentrate on the east and northeast shoreline of Off Lake and in Menary Township where significant gold values have been obtained..*

## TABLE OF CONTENTS

	Page
	<i>SUMMARY</i>
1.0	INTRODUCTION 1
2.0	LOCATION and ACCESS 1
3.0	CLAIMS and OWNERSHIP 3
4.0	PREVIOUS WORK 6
5.0	REGIONAL GEOLOGY 6
6.0	PROPERTY GEOLOGY 10
6.1	The Northern Outcrop 10
6.2	The Southern Outcrop 12
6.3	Genesis of the Vein Systems 12
7.0	DRILL PROGRAM SUMMARY 13
8.0	DRILL LOG SUMMARY 15
9.0	CONCLUSIONS & RECOMMENDATIONS 17
10.0	STATEMENT of QUALIFICATIONS 18
11.0	REFERENCES 19

## APPENDICES

**Appendix A:** Cunningham Patent Claim Diamond Drill Logs

**Appendix B:** Cunningham Patent Claim 1:500 Drill Sections  
OL0914 at 1:1 000 scale  
OL0915 at 1:1 000 scale

**Appendix C:** ALS Chemex Assay Certificates

**Appendix D:** ALS Chemex Sample Preparation and Analytical Procedures

**Appendix E:** Cunningham Patent Diamond Drilling Expenditures

## FIGURES

		<u>Page</u>
<b>Figure 1</b>	Regional Location Map	2
<b>Figure 2</b>	Off Lake Property Claim & Patent Map	5
<b>Figure 3</b>	Off Lake Felsic Dike Complex – L. Ayres Mapping, 2007	8
<b>Figure 4</b>	Cunningham Patent: Area of Drilling - 1:25 000 scale	9
<b>Figure 5</b>	Cunningham Patent: Drill Plan - 1:5 000 scale	16

## TABLES

<b>Table 1</b>	Off Lake Property Claims List	3
<b>Table 2</b>	Optioned Patented Claims on Cunningham Block	6
<b>Table 3</b>	Diamond Drill Hole Details	14
<b>Table 4</b>	Rainy River Resources Analytical QAP	15

## 1.0 INTRODUCTION

This report presents and summarizes the results of a 2 hole, 351.83 metre NQ diamond drill program conducted by Rainy River Resources. (RRR) on the Off Lake property located northwest of Fort Francis, Ontario. The drill program was conducted between February 20th and February 24<sup>th</sup>, 2009.

The Off Lake Property claims cover the northeastward extension of the Archean greenstone belt that hosts the company's gold prospect in Richardson Township. Off Lake is approximately 17km from the Richardson Township gold-rich VMS deposit. In the Off Lake-Clearwater Lake area the main focus of exploration continues to be the upper part of the Off Lake Felsic Dike Complex (OLFC). The 'type locality' for the OLFC is the stripped outcrops in the central portion of the Cunningham Patent in Potts Township.

The two outcrops on Cunningham patented claim in the south part of the OLFC contain extensive quartz vein systems. The vein systems were discovered by Dr. Lorne Ayers in 2006 during the course of geological mapping. Target generation was the direct result of previous programs of grab sampling, mechanical stripping, channel sampling, 1:500 geological mapping undertaken by Dr. Ayres and overburden drilling in 2008. Drill targets were developed from the historical anomalous gold and copper results and geological interpretation.

An option to purchase the patented mineral rights for Parcel #7863, between Rainy River Resources ("Optionee") and Mr. Leroy D. Cunningham of RR#2, Lampi Road, Finland, Ontario ("Optionor") was finalized on the 1<sup>st</sup> of March, 2007. Mr. Clement J. Baker, Regional Exploration Manager for Rainy River Resources, supervised the drill program.

## 2.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The Off Lake Property is located in north western Ontario on NTS Map Sheet 52 C/13. The town of Fort Francis is located approximately 50 kilometres to the southeast (**Figure 1**) The property holdings are displayed on Ontario mining tenure map plans G-3819 (Menary), G-3826 (Potts), G-3809 (Flemming) and G-3832 (Senn) in the Kenora Mining Division.

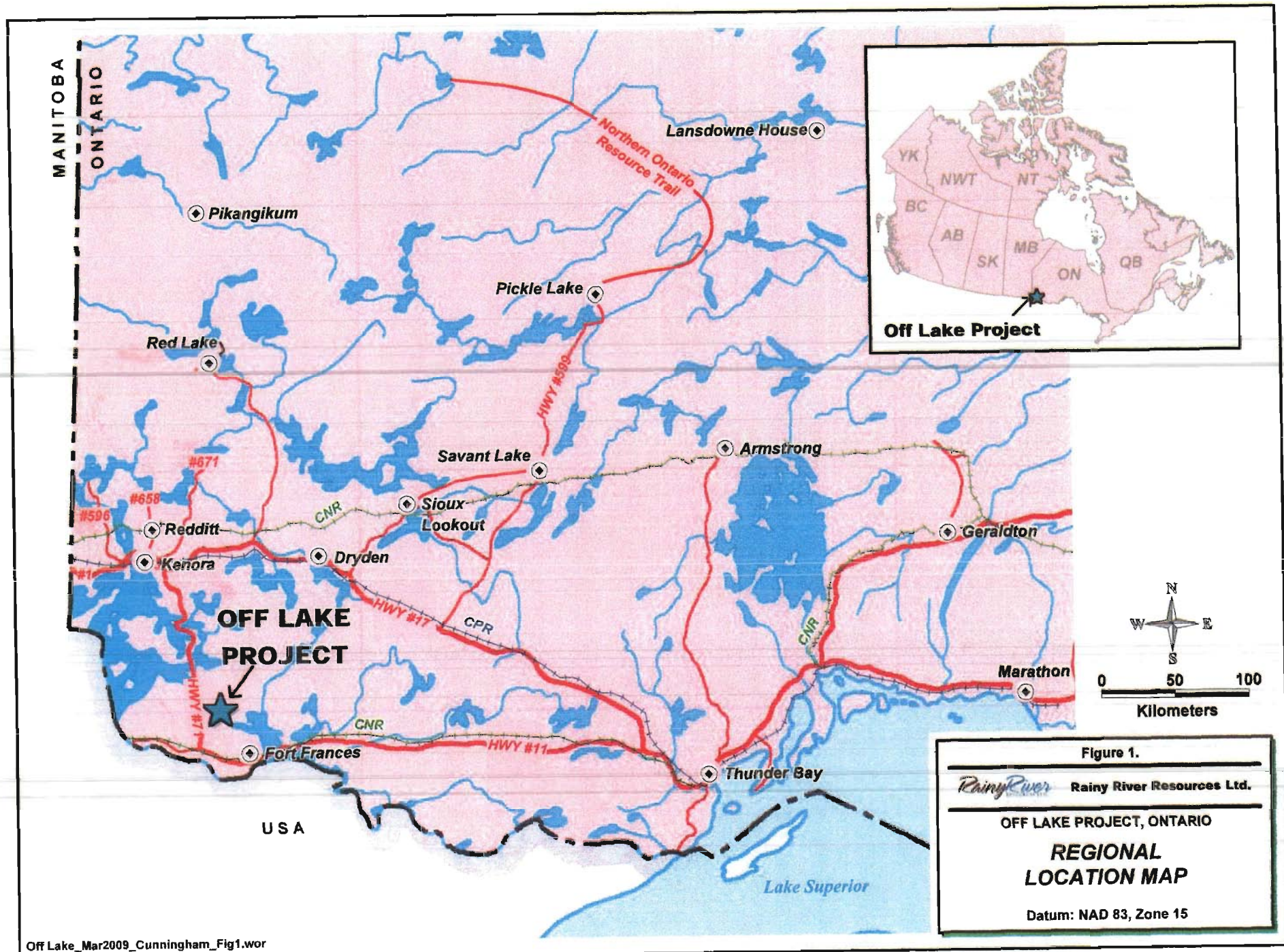


Figure 1.

*Rainy River* Rainy River Resources Ltd.

OFF LAKE PROJECT, ONTARIO

**REGIONAL  
LOCATION MAP**

Datum: NAD 83, Zone 15

Easy access to the drill sites on the Cunningham patent claim was achieved via logging roads branching northward from east/west-trending Lampi Road near its intersection with Off Lake Road (Highway 615).

### 3.0 CLAIMS AND OWNERSHIP

The Off Lake Property covers parts of Menary, Senn, Fleming and Potts townships and consists of 46 mostly unpatented claims totalling 8,368 hectares (**Table 1**). Assembly of the Off Lake land position was commenced in 2005 with an option on the three Stares Contracting mining claims (MC3019809, MC3008455 and MC3008456) in Senn and Fleming townships. Over a period of years, Rainy River Resources staked crown land (100% RRR) and signed option agreements with owners of patented claims in the area.

**Table 1: Off Lake Property Claims List (\*Stares Contracting Optioned Claims)**

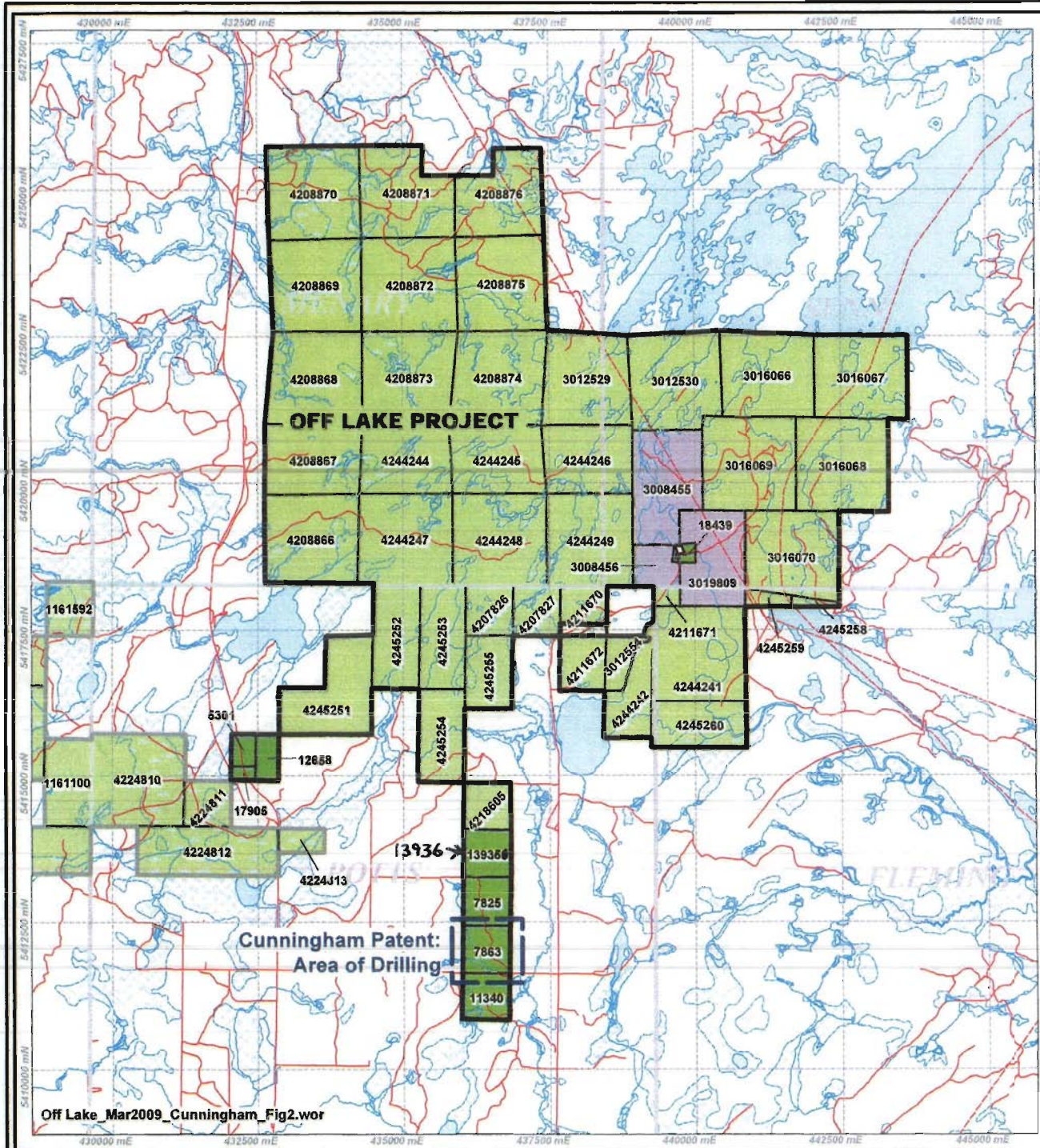
Twp	Mining Claims	Recording Date	Due Date	Units	Percent Option
Menary	4208866	2005-Oct-26	2009-Oct-26	16	100%
Menary	4208867	2005-Oct-26	2009-Oct-26	12	100%
Menary	4208868	2005-Oct-26	2009-Oct-26	16	100%
Menary	4208869	2005-Oct-26	2009-Oct-26	16	100%
Menary	4208870	2005-Oct-26	2009-Oct-26	16	100%
Menary	4208871	2005-Oct-26	2009-Oct-26	15	100%
Menary	4208872	2005-Oct-26	2009-Oct-26	16	100%
Menary	4208873	2005-Oct-26	2009-Oct-26	16	100%
Menary	4208874	2005-Oct-26	2009-Oct-26	16	100%
Menary	4208875	2005-Oct-26	2009-Oct-26	16	100%
Menary	4208876	2005-Oct-26	2009-Oct-26	14	100%
Menary	4244244	2009-Jan-20	2011-Jan-20	12	100%
Menary	4244245	2009-Jan-20	2011-Jan-20	12	100%
Menary	4244246	2009-Jan-20	2011-Jan-20	12	100%
Menary	4244247	2009-Jan-20	2011-Jan-20	16	100%
Menary	4244248	2009-Jan-20	2011-Jan-20	16	100%
Menary	4244249	2009-Jan-20	2011-Jan-20	16	100%
Potts	3012554	2007-Mar-13	2009-Jun-15	3	100%
Potts	4244242	2009-Jan-28	2011-Jan-28	7	100%
Potts	4245251	2009-Jan-28	2011-Jan-28	12	100%
Potts	4245252	2009-Jan-28	2011-Jan-28	8	100%
Potts	4245253	2009-Jan-28	2011-Jan-28	8	100%

Potts	4245254	2009-Jan-28	2011-Jan-28	8	100%
Potts	4245255	2009-Jan-28	2011-Jan-28	6	100%
Potts	4207826	2006-Feb-20	2010-Feb-20	4	100%
Potts	4211670	2006-Jun-26	2010-Jun-26	4	100%
Potts	4211672	2006-Jun-26	2010-Jun-26	5	100%
Potts	4218605	2007-Apr-19	2009-Apr-19	4	100%
Fleming	4211671	2006-Jun-26	2010-Jun-26	1	100%
Fleming	4245258	2009-Jan-28	2011-Jan-28	1	100%
Fleming	4245259	2009-Jan-28	2011-Jan-28	2	100%
Fleming	4245260	2009-Jan-28	2011-Jan-28	8	100%
Fleming	4244241	2009-Jan-28	2011-Jan-28	16	100%
Fleming	4244243	2009-Jan-28	2011-Jan-28	2	100%
Senn	3012529	2006-Feb-13	2009-Feb-13	16	100%
Senn	4244246	2009-Jan-20	2011-Jan-20	13	100%
Senn	4244249	2009-Jan-20	2011-Jan-20	16	100%
Senn	3012530	2006-Feb-13	2009-Feb-13	16	100%
Senn	3016066	2006-Feb-13	2009-Feb-13	16	100%
Senn	3016067	2006-Feb-13	2009-Feb-13	16	100%
Senn	3016068	2006-Feb-13	2009-Feb-13	16	100%
Senn	3016069	2006-Feb-13	2009-Feb-13	16	100%
Senn	3016070	2006-Feb-13	2009-Feb-13	16	100%
Senn	3019809*	2004-May-17	2010-May-17	12	
Senn	3008455*	2004-Jun-21	2010-Jun-21	14	
Fleming	3008456*	2004-Jun-21	2010-Jun-21	4	

The patented claims on the Cunningham Block are typically under four year option deals involving cash payments and common shares of Rainy River Resources Ltd. Upon completion of these payments, Rainy River Resources will have purchased 100% of the property less a 2% NSR. The unpatented mining claims and patents of the company's Off Lake property are shown in **Figure 2**.

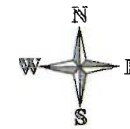
The focus of this report relates to drilling completed on the Cunningham patent claim. This patent and two adjoining quarter-sections to the north and one to the south are herein collectively referred to as the Cunningham Block (**Table 2**).





**LEGEND**

-  Richardson TWP Project
-  Off Lake Project
-  Claims
-  Patents
-  Claims - Stares Option
-  Seasonal Roads, Trails
-  Roads
-  Rivers, Streams
-  Lakes
-  Wetland
-  Townships



Kilometers  
Scale: 1:100,000

Figure 2.



Rainy River Resources Ltd.

OFF LAKE PROJECT, ONTARIO

**CLAIM & PATENT MAP**

Datum: NAD 83, Zone 15

**Table 2: Optioned Patented Claims on Cunningham Block**

<b>Twp</b>	<b>Party</b>	<b>Date</b>	<b>Pin No.</b>	<b>Parcel</b>	<b>Acres</b>
Potts	Cunningham	2007-Mar-1	56035-0188	7863	160.5
Potts	Schoenman/Quandt	2008-Jun-16	56035-0044	13936	160.5
Potts	Schoenman/Quandt	2008-Jun-16	56035-0186	7825	160.5
Potts	Fauconnier	2007-Nov-2	56035-0018	11340	155.0

#### **4.0 PREVIOUS WORK**

Although exploration activity in the Off Lake area by individual prospectors dates back to the 1930's, the documented exploration in the Ministry of Natural Resources assessment files commences in 1967 (Baker, 2006). There is no record of any previous exploration work on the Cunningham patent.

The Ontario Geological Survey's regional 1987-1988 heavy mineral geochemical sampling survey included approximately 30 samples collected in the Off Lake area from hand-dug pits, backhoe trenches and sonic bore holes (Bajc, 1991)

In February 2006, Rainy River Resources completed a VTEM survey over the central portion of the Off Lake claim block. Geological mapping was carried out during the 2007 and 2008 field seasons by Dr. Lorne Ayers (Ayers 2007, 2008) for Rainy River Resources. Reverse circulation drilling was completed by Overburden Drilling Management of Ottawa in June, 2008. OLRC08-17 and OLRC08-18 tested the Cunningham Patent while OLRC08-19 to OLRC08-22 tested the Schoenman/Quandt patents. The drilling was designed to test for more concentrated gold-rich volcanogenic sulphide mineralization on the Cunningham Block in the less fertile core of the Off Lake Felsic Dike Complex.

#### **5.0 REGIONAL GEOLOGY**

The Off Lake area is located in the south western part of the Wabigoon greenstone-granitoid subprovince of the Archean Superior Province of the Canadian Shield. In this part of the subprovince, anastomosing greenstone belts surround younger amoeboid granitoid batholiths. The greenstone belt is bounded on the northwest by the younger Sabaskong granitoid batholith, on the southeast by the Fleming-Kingsford granitoid batholith and on the

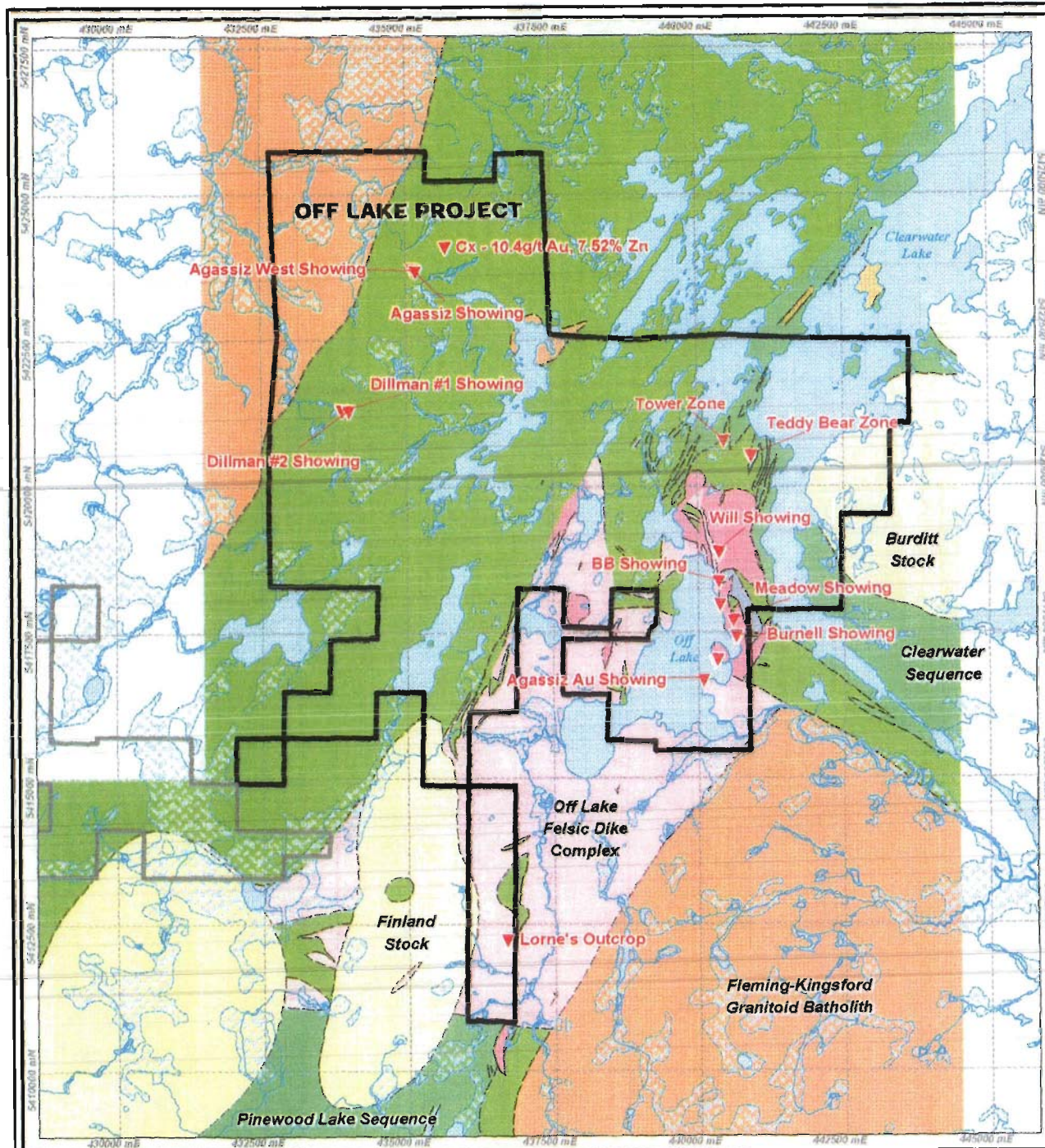
east by the Jackfish Lake Complex, a dioritic to granitic pluton.

In 1976, C.E. Blackburn of the Ontario Geological Survey completed a regional-scale mapping survey in the Off Lake-Burditt Lake area:

*"The felsic volcanic component of the supracrustal units overlie, and also occur in, the upper part of a lower mafic metavolcanic, pillowed and non-pillowed lava flow sequence that was intruded by metagabbro. In general, rock units trend northeast, have a sub-vertical dip and face southeast in a homoclinal sequence that is disrupted by faults. The width of the total metavolcanic sequence is at least 9 km, but the original thickness is unknown because of extensive flattening in the rock units. The felsic metavolcanic sequence, as previously mapped, actually comprises two distinct lithologies: felsic volcanoclastic units, and subvolcanic, quartz- ± plagioclase-phyric, felsic intrusions. The felsic volcanoclastic rocks form two, geographically distinct sequences: the Clearwater Lake sequence in the north and the Pinewood Lake sequence in the south. Each of these sequences is at least 2 km wide.*

Dr. Lorne Ayres completed detailed mapping on the Off Lake Property, in 2007, for Rainy River Resources. **Figure 3** shows the location of Lorne's Outcrop relative to the Off Lake Felsic Dike Complex and **Figure 4** shows the area of drilling on the Cunningham Patent claim. The following is taken directly from Ayres, 2007...






*"The Clearwater Lake and Pinewood Lake volcanoclastic sequences are lithologically similar, and they are dominantly polymictic, clast-supported, felsic volcanic, pebble to cobble, and locally boulder conglomerate. The felsic intrusions are mostly concentrated near Off Lake where the Off Lake Felsic Dike Complex is at least 9 km long and 4.5 km wide. Hundreds to thousands of dikes that are generally <5 m wide form about 85% of the complex; the other component of the complex is mafic metavolcanic lava flow and metagabbro blocks, megablocks and septa that appear to be in original stratigraphic position. The dike complex was emplaced in the upper part of the lower mafic metavolcanic sequence; it is separated from the Clearwater Lake felsic volcanoclastic sequence on the east by about 800 m of mafic units and from the Pinewood Lake felsic volcanoclastic sequence on the south by a major fault" (Ayres, 2007).*



**LEGEND**

-  Richardson TWP Project
-  Off Lake Project

**GEOLOGY LEGEND: Dr. Lorne Ayres, 2008**

-  LATE TECTONIC GRANITOID PLUTONS
-  SYNTECTONIC GRANITOID PLUTONS
-  SYNVOLCANIC, METAMORPHOSED, QUARTZ +/- PLAGIOCLASE-PHYRIC, FELSIC INTRUSIONS
-  MAFIC TO INTERMEDIATE METAVOLCANIC SEQUENCE
-  METASEDIMENTARY UNITS: POLYMICITIC, FELSIC VOLCANIC, CLAST-SUPPORTED, PEBBLE METACONGLOMERATE



Kilometers  
Scale: 1:100,000

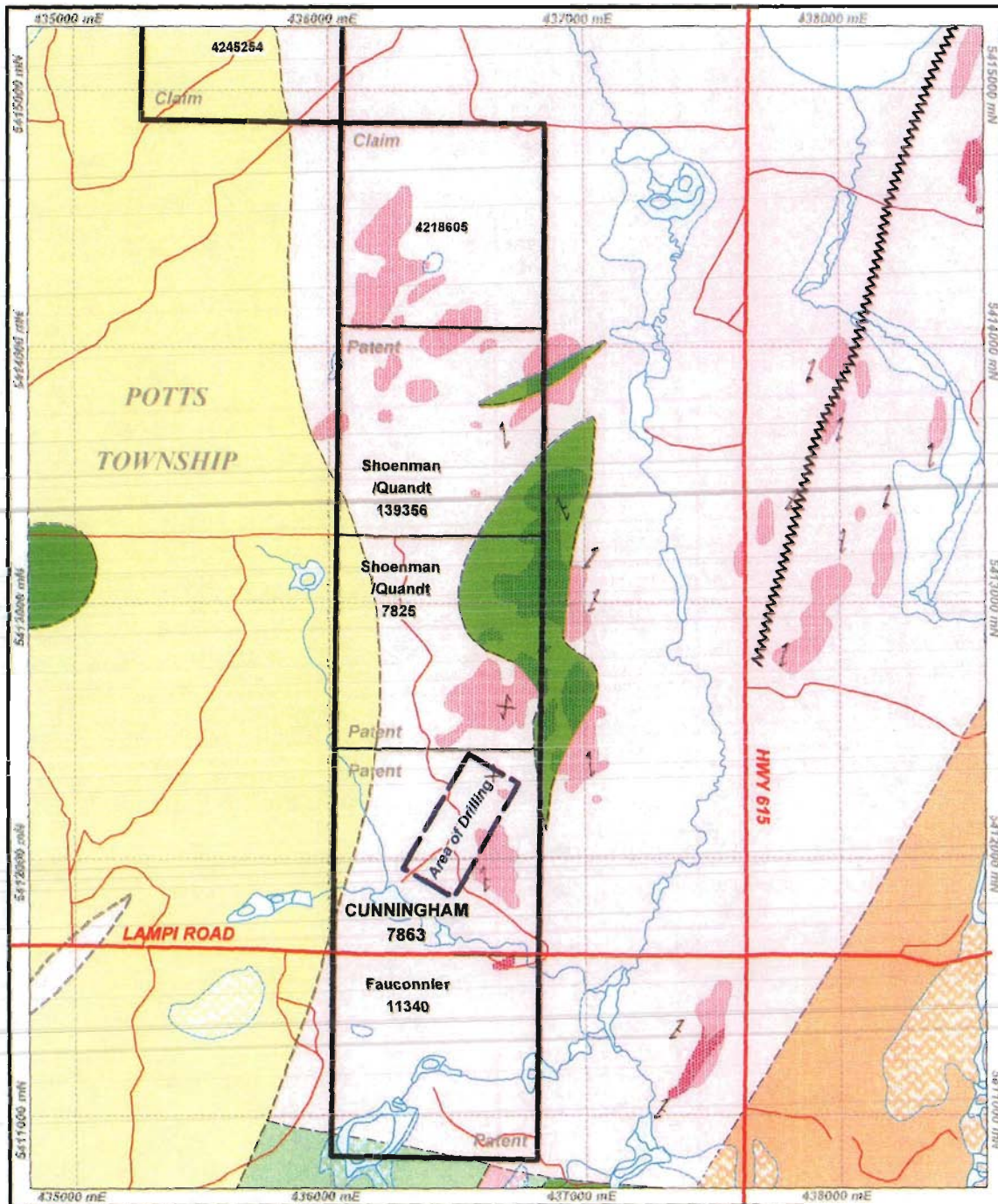
Figure 3.

*Rainy River* Rainy River Resources Ltd.

OFF LAKE PROJECT, ONTARIO

**FELSIC DIKE COMPLEX**  
**Dr. Lorne Ayres, 2008**

Datum: NAD 83, Zone 15



**LEGEND**

- Off Lake Project
- Off Lake Project - Claims/Patents
- Roads
- Rivers, Streams
- Lakes
- Wetland

**GEOLOGY LEGEND: Dr. Lorne Ayres, 2008**

- LATE TECTONIC GRANITOID PLUTONS
- SYNTECTONIC GRANITOID PLUTONS
- SYNVOLVANIC, METAMORPHOSED, QUARTZ +/- PLAGIOCLASE-PHYRIC, FELSIC INTRUSIONS
- MAFIC TO INTERMEDIATE METAVOLCANIC SEQUENCE
- METASEDIMENTARY UNITS: POLYMIC TIC, FELSIC VOLCANIC, CLAST-SUPPORTED, PEBBLE METACONGLOMERATE

- FAULT
- CONTACT - INFERRED
- CONTACT - DEFINED



0 500 1000  
Meters  
Scale: 1:25,000

Figure 4.



Rainy River Resources Ltd.

OFF LAKE PROJECT, ONTARIO

**CUNNINGHAM PATENT:  
AREA OF DRILLING**

Datum: NAD 83, Zone 15

## 6.0 PROPERTY GEOLOGY

On the Cunningham patent, two outcrops in the southern part of the OLFC contain extensive quartz vein systems. The vein systems were discovered by Dr. Lorne Ayres in 2006 during the course of geological mapping. The northern outcrop exposure is considered the 'type locality' for the Off Lake Felsic Dike Complex. The two outcrops may be of a single vein system. The following description of lithologies for the northern and southern mapped outcrops is taken entirely from Ayres, 2007.....

*"The host rock in both outcrops is a suite of white-, to pale-grey-, to pale-brown-, to rusty-weathering, quartz-phyric, felsic dikes that contain 1 to 3%, 1- to 4-mm, quartz phenocrysts. Groundmass of the dikes has been recrystallized and is now fine grained. Dikes vary from foliated to massive. The two outcrops may be part of a single vein system.*

### 6.1 The Northern Outcrop

*The vein system in the northern outcrop was mechanically cleaned and washed in October, 2007, and has subsequently been channel sampled. This is a relatively small, subcircular outcrop, the cleaned part of which is 35 m (east-west) by 25 m (north-south). On this outcrop, there is evidence of at least three intrusive events, three vein injection events, several periods of deformation, and sulphide mineralization.*

#### *Felsic dike complex*

*The first intrusive event was emplacement of felsic dikes. It was not possible to identify more than one phase of dike emplacement on the northern outcrop. However, based on observations made elsewhere (Ayres, 2007), including the larger southern outcrop, dike emplacement was a multiple intrusive event with some dike emplacement possibly post-dating mineralization.*

#### *Mineralization*

*The quartz-phyric, felsic dikes contain as much as 10% pyrite and minor chalcopyrite. The sulphide minerals occur as disseminated grains and aggregates,*

which are as much as 1 cm in diameter, and in narrow, sericitic, shear zones. Sulphide mineralization also occurs in early quartz veins (Ayres, 2007).

#### *Early quartz veins*

*At the northern outcrop, the felsic dike complex was injected by an early stockwork of pale-grey, glassy, quartz veins that contain <5% pyrite and have localized malachite staining. Most veins are 1 to 5 cm wide and are typically 5 to 30 cm apart, but locally veins are 40 to 120 cm wide; the wider veins appear to be discontinuous pods and/or the result of amalgamation of veins. Although the veins are interconnected to form a stockwork, there is, in most places, a preferred orientation to many veins.*

*In most of the northern outcrop, the early quartz veins range in abundance from 10 to 70%, although there are local areas where only a few veins were observed. Veins are most abundant in the central part of the outcrop and decrease in abundance toward the southwest and northeast margins. Where veins are abundant, the quartz-phyric, felsic, host rock forms angular, elongated fragments surrounded by quartz. On the southwest side of the outcrop, there is a relatively abrupt boundary, with a general trend of 120°, between an area that contains abundant quartz veins on the northeast and an area with only sparse veins on the southwest.*

#### *Early faults and veins*

*The early quartz veins are offset along faults that typically trend 020 to 030°. The faults vary from ductile to brittle structures. On the outcrop surface, ductile faults lack obvious fault lines whereas brittle faults have obvious fault lines, some of which are filled by relatively straight, quartz + chlorite veins that are as much as several centimetres wide.*

#### *Late quartz veins*

*On the northwest side of the outcrop, several, white to locally rusty, quartz veins as much as 40 cm wide transect both the early quartz veins and the quartz +*

*chlorite veins; no sulphide minerals were observed in these veins. These late veins have an average trend of 045°, and dip ranges from 40°NW to 70°SE.*

#### *Late granitoid dikes*

*Two distinct ages of granitoid dikes were intruded into the late quartz veins and all older structures and rock units. The granitoid dikes are distinguished by colour and trend, and they comprise an earlier, texturally variable, pink- to pale-grey-weathering phase and a younger pale-grey- to cream-weathering phase. Dikes of both phases extend completely across the outcrop. These dikes have not been metamorphosed, and they are probably related to the late tectonic Finland stock.*

### **6.2 The Southern Outcrop**

*In the southern outcrop, which is considerably larger than the northern outcrop, the quartz vein system occurs along the relatively poorly exposed northwest edge. The quartz vein system is very similar to that in the better exposed northern outcrop. Pale-grey, quartz veins that are generally <5 cm wide, but locally are as much as 50 cm wide, occur in foliated, rusty-weathering, quartz-phyric, felsic dikes. Most veins preferentially trend between 030° and 100°, but the veins are interconnected to form a stockwork within an in situ breccia. The vein system is at least 30 m wide, and it was traced about 100 m to the northeast, along a trend of 045°, before disappearing in an area of poor exposure about half way across the outcrop. To the northeast, the vein system appears to decrease in width, and the system here is less obvious because there is less rusty weathering.*

*In the southern outcrop, the veins are on the west side of the outcrop and appear to form a generally northerly trending zone as much as 10 m wide; within this zone, individual veins are as much as 1 m wide and have diverse trends.*

### **6.3 Genesis of the vein systems**

*If the pale-grey vein system in the southern outcrop is projected along the apparent trend of the system, as established by the dominant trend of the veins and tracing of the system, it would be close to the early vein system in the northern*



*outcrop, although the vein system in the northern outcrop has a different average trend. These spatial relationships in addition to the lack of vein systems on outcrops farther north suggest that the two vein systems are genetically related.*

*The early quartz veins predate several generations of later quartz veins, both ductile and brittle faults, and two periods of granitoid intrusions. The early age of the veins and the sharp contact on the southern outcrop between foliated, quartz-phyric, felsic rocks containing the quartz stockwork and a more massive, quartz-phyric, felsic unit that lacks quartz veins suggests that the vein system may be related to emplacement of the Off Lake felsic dike complex.*

*The only similar quartz stockwork observed to date in the area is associated with the Off Lake fault . The vein system on the Cunningham option has a distinctly different trend to that of both the Off Lake fault, the inferred extension of which is about 800 m to the east, and the Potts fault, which is about 1 km to the south. However, the quartz stockwork on the Cunningham option may be related to an undiscovered, early fault in the southern part of the Off Lake felsic dike complex”.*

## **7.0 DRILL PROGRAM SUMMARY**

Drilling commenced on February 21<sup>st</sup> and ended on March 11<sup>th</sup>, 2009. Bradley Brothers Drilling Inc. of Rouyn-Noranda, Quebec was contracted to perform the diamond drilling using their Boyles 35 diamond drill rig. The drill program consisted of two NQ holes, numbered OL09-14 and OL09-15, totaling 351.83 metres of coring.

Both diamond drill holes were completed on the company's optioned Cunningham Patent claim; drill hole details are shown in **Table 3**. Drill hole OL09-14 was drilled at an azimuth of 90 degrees to target the 'northern' stripped outcrop known as Lorne's Outcrop. Drill hole OL09-15, on the other hand, was drilled at an azimuth of 80 degrees to target sulphides exposed on the 'southern' outcrop. Diamond drill logs are in **Appendix A**, 1:1 000 drill sections and 1: 5 000 drill hole location plan are in **Appendix B**. Assay certificates for gold and multi-element ICP-MS are listed in **Appendix B**.

**Table 3. Diamond Drill Hole Details**

Drill Hole	Easting	Northing	Azimuth	Dip	Length
OL09_14	436592	5412263	090deg	-55deg	191.00m
OL09_15	436448	5411951	080deg	-55deg	160.83m
				Total	351.83 m

A total of 222 samples were collected for Au fire assay with an atomic absorption (AAS) finish plus a 35 element ICP-MS scan. Sample lengths were typically less than 1.50 metres. Drill core was logged by the author; sample intervals were sawed in half and samples were bagged at the Rainy River Resources core storage facility in Richardson Township. Upon completion of each drill hole, samples were transported to Fort Frances and shipped to ALS Chemex Laboratory via Gardewine Transport based in Fort Frances. Assay procedures for ALS Chemex Laboratories of Thunder Bay, Ontario are described in **Appendix E**. Both drill holes were subjected to down hole surveys using an electronic REFLEX EZ-Shot borehole survey tool. Readings for dip and azimuth were recorded approximately every 50m down hole. Some azimuth readings were suspect, given the strong magnetic nature of the mafic volcanic rocks. Drill casings were left with caps recording the drill hole number.

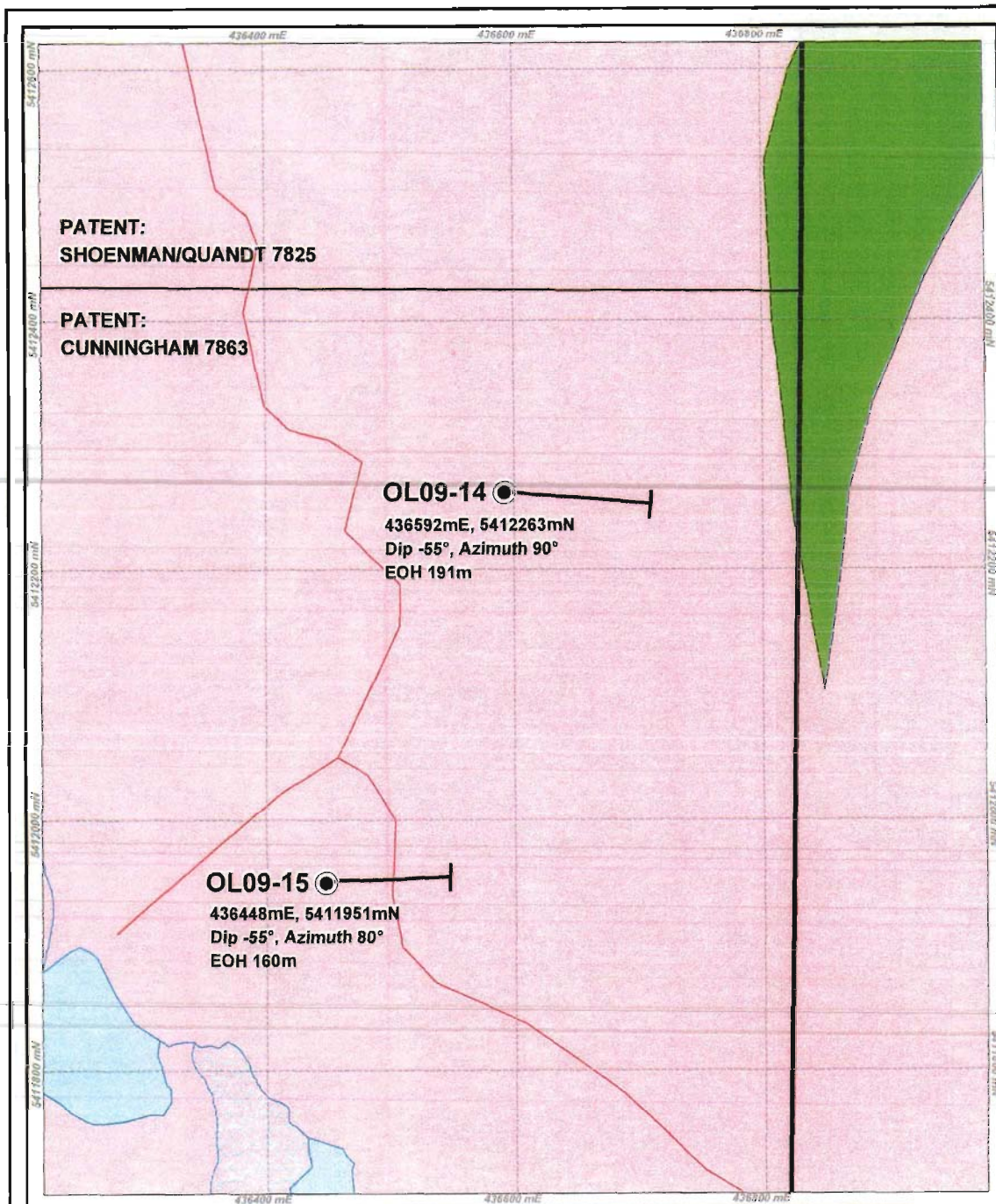
In 2005, Rainy River Resources set up an Analytical Quality Assurance Program (QAP) to control and assure the analytical quality of assays in its gold exploration. This is over and above the QA/QC undertaken by the laboratory. The company's program includes the systematic addition, to every 40<sup>th</sup> sample, of blank samples and certified reference standards *Si42 (1.761g/tAu)* and *SK43 (4.086g/t Au)* to each batch sample sent for analysis at commercial laboratories. Blank samples are used to check for possible contamination in laboratories while reference standards determine analytical accuracy and precision. For each significant mineralized intersection, 10% of the samples are quarter split and the pulps are sent to a second certified laboratory. Furthermore, each pulp from the quarter split is returned to the first laboratory for a second gold analysis in order to cross check the analytical reproducibility. **Table 4** summarizes the results of the company's QAP for drilling on the Cunningham Patent claim.

**Table 4.** Rainy River Resources Analytical Quality Assurance Program


Sample Number	RRR Reference STD	Au-AA23 Au (ppm)	ME-ICP41 Ag (ppm)	ME-ICP41 Cu (ppm)	ME-ICP41 Pb (ppm)	ME-ICP41 Zn (ppm)
445080	Blank	0.011	0.2	43	3	28
445160	Blank	0.005	0.4	23	5	29
445240	Blank	0.008	0.2	20	5	29
445320	Blank	0.008	0.2	19	4	28
445400	Blank	0.008	<0.2	20	4	28
445480	Blank	0.007	0.2	20	3	25
337560	Blank	0.012	<0.2	44	7	22
337640	Blank	0.007	<0.2	23	3	26
337720	Blank	0.009	0.2	44	6	34
	Average =	<b>0.008</b>		<b>28.4</b>	<b>4.4</b>	<b>27.7</b>
445360		1.720	0.3	26	48	57
445200	<b>REF STD</b>	1.815	0.4	25	48	50
445040	<b>Si 42 =</b>	1.650	0.3	26	50	52
337520	<b>1.716g/t Au</b>	1.775	0.2	25	49	45
337680		1.835	<0.2	26	49	53
	Average =	<b>1.759</b>		<b>25.6</b>	<b>48.8</b>	<b>51.4</b>
445280		3.86	0.5	25	58	50
445440	<b>REF STD</b>	4.17	0.5	20	57	49
445120	<b>SK 43 =</b>	3.94	0.6	29	58	45
337600	<b>4.06g/t Au</b>	4.21	0.5	18	56	44
337760		4.02	<0.2	20	55	46
	Average =	<b>4.04</b>		<b>22.4</b>	<b>56.8</b>	<b>46.8</b>

## 8.0 DRILL LOG SUMMARY



Drill hole *OL09-14* was spotted to test *Lorne's Outcrop*, the 'northern' outcrop on Cunningham Patent, discovered by Dr. Lorne Ayres through mapping during the summer of 2007 (**Figure 5, Appendix B**). Drilling commenced on the 22<sup>nd</sup> of February, 2009 and was completed on the 24<sup>th</sup> of February, 24<sup>th</sup> and a DHD of 191.00m. The main lithologies intersected were early and late felsic dikes, quartz veining and Off Lake Felsic Dike Complex lithologies. Mineralization consisted essentially of very fine grained disseminated pyrite with rare specks of chalcopyrite. Anomalous, but sub-grade, copper values were noted throughout the drill trace. Gold values were typically low with the best assays returned from the last five samples taken. The latter gold values are similar to those noted in channel



**LEGEND**

-  Off Lake Project
-  Off Lake Project - Patents
-  2009 Drill Hole Collar
-  2009 Drill Hole Trace
-  Roads
-  Roads, Streams
-  Lakes
-  Wetland

**GEOLOGY LEGEND: Dr. Lorne Ayres, 2008**

-  SYNVOLCANIC, METAMORPHOSED, QUARTZ-+/- PLAGIOCLASE-PHYRIC, FELSIC INTRUSIONS
-  MAFIC TO INTERMEDIATE METAVOLCANIC SEQUENCE

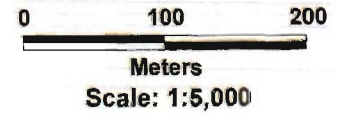


Figure 5.

*Rainy River* Rainy River Resources Ltd.  
 OFF LAKE PROJECT, ONTARIO  
**CUNNINGHAM PATENT:  
 DRILL PLAN**  
 Datum: NAD 83, Zone 15

samples assays.

Drill hole *OL09-15* was spotted to test sulphide-rich exposures in the 'southern' outcrop approximately 100 m south of Lorne's Outcrop. Similar to *OL09-14*, the main lithologies intersected consisted of felsic dikes, quartz veining and OLFC rocks, however, the hole collared in strongly magnetic mafic volcanics. Mineralisation is similar to *OL09-14* in that copper assays are typically anomalous, but sub-grade throughout with increasing values down section. Gold values are generally less than 50ppb.

## 9.0 CONCLUSIONS & RECOMMENDATIONS

Previous negative reverse circulation overburden drilling results reinforced Ayres' observations that 1) pervasive, large-scale Au or base metal mineralization is not present within the dike complex at the present erosional level; and 2) any Au-rich, volcanogenic sulphide zones of economic size would be restricted to the top of the dike complex (Ayres, 2009).

According to Michaud, 2008... *"the low-gold and base metal values for the bedrock samples indicate that any subcropping gold mineralization of a significant grade on the Cunningham Block is of the spotty, single-dyke type in the better exposed parts of the Off Lake Felsic Dike Complex. The till results mirrored the bedrock results"*.

The current diamond drill program on the Cunningham Block returned extensive sub-grade copper values along with very low gold values. Although the Cunningham patent outcrops are of significant geological interest, the economic potential of the area has been downgraded as a result of the diamond drilling.

- Additional sampling (between DHD 176.52m to 191.00m) of drill core should be undertaken on *OL09-14*.
- Once these assays are at hand, serious consideration should be given to dropping all four patents in the Cunningham Block prior to their next option payments.
- Given that the main target on the Off Lake property is gold deposits, future exploration should focus on the top of the Off Lake Felsic Dike Complex east and northeast of Off Lake and on recent high-grade gold values returned from the chert exhalite horizon in Menary township.

## 10.0 STATEMENT OF QUALIFICATIONS

I, Clement J. Baker of 4452 Bittersweet Place, Gloucester, Ontario hereby certify that:

- 1.) I am the author of this report.
- 2.) I graduated from Queen's University, in Kingston, Ontario, with a Master's Degree in Mineral Exploration (MINEX - 1993).
- 3.) I possess a valid prospector's license and have been practising my profession as a geologist involved in mineral exploration since 1989.
- 4.) I am a member in good standing with the Prospector's and Developer's Association of Canada (PDAC) and of the Ontario Prospector's Association (OPA)
- 5.) I do not hold or expect to receive any interest in the property described in this report.
- 6.) I consent to the use of this report by Rainy River Resources Limited.



---

Clement J. Baker, MSc  
Regional Exploration Manager  
Rainy River Resources Ltd

March 28, 2009  
Gloucester, Ontario

## 11.0 REFERENCES

- Ayres, L.D. and Tims, A., 2007.** *Geology and Economic Potential of Felsic Metavolcanic and Subvolcanic Intrusive Rocks, Off Lake – Pinewood Lake Area, Northwestern Ontario; Off Lake Project, Rainy River Resources Ltd.:* unpublished report prepared for Rainy River Resources Ltd., 113 pages.
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**APPENDIX A**

**Cunningham Patent Diamond Drill Logs**



**Rainy River Resources Limited**

Diamond Drill Log

OL09\_14

<b>Drill Hole No:</b>			
Collar Easting:	436592	Claim No:	Cunningham Patent
Collar Northing:	5412263	Township:	Potts
Dip:	-55 <i>deg.</i>	Contractor:	Bradley Bros
Azimuth:	80deg	Casing:	10m
Started:	22 February, 2009	Core Size:	NQ
Completed:	24 February, 2009	Logged By:	Cj Baker
Depth:	191.00m	Date:	24 February, 2009

<b>Purpose:</b>			
To test Lorne Showing North - Cu/Au target			

Tests: EZ Shot	DHD (m)	Dip (deg)	Azi (deg)
	20.00	-52.3	96.3
	71.00	-51.8	94.0
	122.00	-51.5	94.5
	173.00	-50.8	95.2

Rainy River Resources: Off Lake Project

OL09-14

From (m)	To (m)	Litho Code	Lithological Description	Comments	S/N	Assays			Au ppm	Cu ppm
						From	To	Interval		
0.00	8.75	O/B	Overburden							
8.75	15.00	6a	Off Lake Felsic Dike Complex	Pale grey/green, homogeneous, m.g., qtz-phyric throughout moderate foliation locally typically at 60deg TCA, brittle fracturing, minor wispy cb associated with planes, minor BLE associated with some fractures, non magnetic, unmineralised, diffuse lower contact.	445105	14.00	15.00	1.00	<0.005	15
15.00	20.43	6a,6e	Off Lake Felsic Dike Complex	Intercalated pale green & pink, sharp inc in deformation from previous section, qtz injections, late pink coloured dikes cross-cutting, brittle fracturing, strong foliation typically sub-parallel TCA, hem, epidote, unmineralised, lower contact is diffuse.	445106 445107 445108 445109	15.00 16.50 18.00 19.50	16.50 18.00 19.50 20.43	1.50 1.50 1.50 0.93	<0.005 <0.005 0.005 0.006	22 56 103 21
20.43	30.42	6a	Off Lake Felsic Dike Complex	As in 8.75m-15.00m, m.g. to c.g., homogeneous, qtz-phyric, weak foliation developed locally at 70deg TCA, 'late' dikes noted at 17.00m-18.00m and 24.48m-24.56m, very fine-grained Py as disseminations throughout to 2% level, trace cPy, lower contact with late dike is sharp at 85deg TCA.	445110 445111 445112 445113 445114 445115 445116	20.43 22.00 23.50 25.00 26.50 28.00 29.00	22.00 23.50 25.00 26.50 28.00 29.00 30.42	1.57 1.50 1.50 1.50 1.50 1.00 1.42	0.005 0.007 0.026 0.008 0.008 0.01 0.009	449 808 1530 535 524 779 681
30.42	30.71	6e	Felsic Dike	Pink, v.c.g. qtz-phyric dike, pegmatitic, massive, 'late' dike relative to OLFC, hematization throughout, <1% mafic minerals, distinctive interval, trace Py.	445117	30.42	30.71	0.29	<0.005	56
30.71	38.60	6a	Off Lake Felsic Dike Complex	As in 20.43m-30.42m, several qtz 'injections' with associated epidotisation, wk foliation developed locally, typically at high angles TCA, str silicification, milky white quartz vein at 36.75m-37.00m, brittle fractures, trace level v.f.g. Py as disseminations, lower contact marked by increase in number and diameter of qtz phenos, lower contact is diffuse.	445118 445119 445121 445122 445123 445124 445125	30.71 32.00 33.50 35.00 36.00 36.75 38.00	32.00 33.50 35.00 36.00 36.75 38.00 38.60	1.29 1.50 1.50 1.00 0.75 1.25 0.60	0.009 0.015 0.024 0.011 0.033 0.006 0.01	399 1100 1040 852 1510 394 595
38.60	48.95	6a	Off Lake Felsic Dike Complex	Dark grey, massive, homogeneous unit with distinctive c.g. quartz phenos to 3mm diameter, brittle fracture, minor wispy cb veinlets locally, 'late' pink dike at 43.07m-43.16m DHD, microfractures inc towards the lower contact, trace level v.f.g. Py locally.	445125 445126 445127 445128 445129 445130 445131 445132	38.00 38.60 40.00 41.50 43.00 44.50 46.00 47.50	38.60 40.00 41.50 43.00 44.50 46.00 47.50 48.95	0.60 1.40 1.50 1.50 1.50 1.50 1.50 1.45	0.01 0.01 0.011 0.023 0.011 0.014 0.01 0.023	595 814 924 1940 1220 1650 1340 2880

Rainy River Resources: Off Lake Project

OL09-14

From (m)	To (m)	Litho Code	Lithological Description	Comments	S/N	Assays			Au	Cu
						From	To	Interval	ppm	ppm
48.95	54.62	6a,6e	Off Lake Felsic Dike Complex	Dark grey, f.g. to m.g., homogeneous, increase silicification BLE, wispy cb veinlets locally, v.f.g. Py at 2-3% level, sharp lower contact with late dike.	445133	48.95	50.50	1.55	0.021	2400
					445134	50.50	52.00	1.50	0.026	2670
					445135	52.00	53.50	1.50	0.016	1680
					445136	53.50	54.62	1.12	0.022	2520
54.62	55.03	6e	Felsic Dike	As in 30.42m-30.71m, distinctive pink colouration, very c.g. <1% mafic minerals, granitoid texture, sharp upper and lower contacts.	445137	54.62	55.03	0.41	<0.005	45
55.03	58.39	6a,6e	Off Lake Felsic Dike Complex	As in 48.95m-54.62m, qtz-phyric, massive, very brittle fracture planes, qtz 'injections' locally, late dike at 56.50m- 56.61m, diffuse lower contact.	445138	55.03	56.50	1.47	0.01	867
					445139	56.50	58.00	1.50	0.014	1280
					445140	58.00	58.39	0.39	0.02	2250
58.39	68.57	6a	Off Lake Felsic Dike Complex	As in 38.60m-48.95m, distinctive grey, qtz-phyric with quartz phenos to 3mm diameter, massive, homogeneous, quartz- filled 'gashes' locally, increase in sulphides with massive very f.g. Py 1cm-wide vein at 59.60m and 59.72m DHD, 1% Py, trace cPy,	445141	58.39	59.50	1.11	0.021	2080
					445142	59.50	61.00	1.50	0.029	3640
					445143	61.00	62.50	1.50	0.012	1390
					445144	62.50	64.00	1.50	0.008	1130
					445145	64.00	65.50	1.50	0.008	1240
					445146	65.50	67.00	1.50	0.014	1800
					445147	67.00	68.00	1.00	0.024	2620
					445148	68.00	68.57	0.57	0.054	5400
68.57	77.98	6a,6e	Off Lake Felsic Dike Complex	As in 55.03m-58.39m, f.g. to m.g., buff coloured, appears more siliceous, altered than previous unit, moderate foliation typically at 60-70deg TCA, trace-1% disseminated v.f.g. Py throughout interval, minor qtz-filled gashes and cb-filled fracture planes, lower contact is diffused and based on inc grain size and deformation in lower unit.	445149	68.57	70.00	1.43	0.008	974
					445150	70.00	71.50	1.50	<0.005	95
					445151	71.50	73.00	1.50	0.015	1640
					445152	73.00	74.50	1.50	0.007	787
					445153	74.50	76.00	1.50	<0.005	91
					445154	76.00	77.00	1.00	<0.005	279
77.98	79.32	6a	Off Lake Felsic Dike Complex	As in 30.71m-38.60m, sharp increase in diameter of quartz phenos to 3mm, inc v.f.g. Py to 1% level as disseminations and aggregates up to 1cm diameter, strong fabric developed, diffuse lower contact.	445155	77.00	77.98	0.98	0.009	801
					445156	77.98	79.32	1.34	0.015	1320
					445157	79.32	80.00	0.68	0.091	6170
					445158	80.00	81.50	1.50	0.038	3050
					445159	81.50	83.00	1.50	0.005	437
85.47	86.36	6e	Felsic Dike	As in 54.62m-55.03m, pink coloured, late granitoid dike with sharp upper/lower contacts, brittle fracture, intercalated with Off Lake Felsic dike.	445163	85.47	86.36	0.89	<0.005	241

Rainy River Resources: Off Lake Project

OL09-14

From (m)	To (m)	Litho Code	Lithological Description	Comments	S/N	Assays			Au	Cu					
						From	To	Interval	ppm	ppm					
86.36	102.27	6a,6e	Off Lake Felsic Dike Complex	As in 79.32m-85.47m, qtz-veinlet stockwork locally, late x-cutting granitoid dikes at 85deg TCA noted at 89.92m-90.02m, 93.15m-93.19m and 95.20m-95.30m DHD, inc qtz-filled gashes towards lower contact, qtz stockwork at 89.02m DHD, trace level v.f.g. Py throughout interval, lower contact diffuse and marked by alteration change.	445164	86.36	87.50	1.14	0.009	755					
					445165	87.50	89.00	1.50	0.021	1630					
					445166	89.00	90.50	1.50	0.031	1560					
					445167	90.50	92.00	1.50	0.02	1290					
					445168	92.00	93.50	1.50	0.02	1310					
					445169	93.50	95.00	1.50	0.005	498					
					445170	95.00	96.50	1.50	0.008	805					
					445171	96.50	98.00	1.50	0.009	759					
					445172	98.00	99.50	1.50	0.017	1100					
					445173	99.50	101.00	1.50	0.016	1260					
					445174	101.00	102.27	1.27	0.011	771					
					102.27	103.93	6a	Off Lake Felsic Dike Complex	As in 77.98m-79.32m, f.g., sharp inc in epidotisation, mod fabric development with qtz-filled gashes locally, pale green colour, ser, v.f.g. 3% Py as 4mm diam blebs and as dissem., lower contact diffuse and marked by change in grain size..	445175	102.27	103.00	0.73	0.023	678
										445176	103.00	103.93	0.93	<0.005	172
					103.93	160.78	6a,6e	Off Lake Felsic Dike Complex	As in 86.36m-102.27m, massive, homogeneous, qtz phenos to 2mm diameter, minor qtz-filled gashes locally, trace level v.f.g. Py associated with microfractures, interconnected qtz qtz veining 109.00m-144.5m DHD form stockwork, BLE epidotisation, qtz-vein injection throughout, bx locally, narrow sericitic shears, late granitoid dikes, narrow bands of massive v.f.g. Py cross-cut qtz veining indicating 'lateness', ser., hem., epidote prevalent, felsic host rock forms angular elongated fragments surrounded by qtz, lower contact marked by sharp decrease in deformation.	445176	103.00	103.93	0.93	<0.005	172
445177	103.93	105.00	1.07	0.006						399					
445178	105.00	106.50	1.50	0.005						314					
445179	106.50	108.00	1.50	<0.005						271					
445180	108.00	109.50	1.50	<0.005						268					
445181	109.50	111.00	1.50	<0.005						279					
445182	111.00	112.50	1.50	0.015						1010					
445183	112.50	114.00	1.50	0.022						1200					
445184	114.00	115.50	1.50	0.03						1200					
445185	115.50	117.00	1.50	0.021						907					
445186	117.00	118.50	1.50	<0.005						239					
445187	118.50	120.00	1.50	0.005						227					
445188	120.00	121.50	1.50	<0.005						92					
445189	121.50	123.00	1.50	<0.005						180					
445190	123.00	124.50	1.50	<0.005						85					
445191	124.50	126.00	1.50	<0.005						137					
445192	126.00	127.50	1.50	<0.005						123					
445193	127.50	128.50	1.00	<0.005						248					
445194	128.50	129.50	1.00	<0.005						67					
445195	129.50	131.00	1.50	0.012						517					
445196	131.00	132.50	1.50	0.01	410										
445197	132.50	134.00	1.50	0.006	243										
445198	134.00	135.50	1.50	0.02	374										
445199	135.50	136.50	1.00	0.008	147										
445201	136.50	138.00	1.50	<0.005	25										
445202	138.00	139.50	1.50	0.006	133										
445203	139.50	141.00	1.50	<0.005	33										
445204	141.00	142.50	1.50	0.006	69										



**Rainy River Resources Limited**

Diamond Drill Log

OL09\_15

<b>Drill Hole No:</b>			
Collar Easting:	436448	Claim No:	Cunningham Patent
Collar Northing:	5411951	Township:	Potts
Dip:	-55 <i>deg</i>	Contractor:	Bradley Bros
Azimuth:	80 <i>deg</i>	Casing:	13m
Started:	20 February, 2009	Core Size:	NQ
Completed:	22 February, 2009	Logged By:	Cj Baker
Depth:	160.83	Date:	22 Feb, 2009

<b>Purpose:</b>			
To test Lorne Showing South - Au/Cu target			
<b>Note:</b> Depth of overburden was incorrectly labeled at 14.00m instead of 13.00m, therefore all measurements are out by 1.00 m; end of hole is actually 159.83m DHD from the collar.			

Tests: EZ Shot	DHD (m)	Dip (deg.)	Azi (deg.)
	24.00	-52.1	89.4
	74.00	-51.6	97.6
	125.00	-50.1	86.8
	160.83	-49.7	91.1

Rainy River Resources: Off Lake Project

OL09-15

From (m)	To (m)	Litho Code	Lithological Description	Comments	S/N	Assays			Au ppm	Cu ppm
						From	To	Interval		
0.00	14.00	O/B	Overburden	Casing						
14.00	21.95	1a,1e	Mafic to Intermediate Volcanic	<b>14.00m-17.32m</b> Medium grained, green-grey colour, relatively weak foliation developed locally, very strong magnetic, minor cb-filled fractures at high angles TCA, m.g. Py as aggregates, weak BLE associated fracture planes. <b>17.32m-21.95m</b> Medium grained, green-grey, BLE appearance, sharp increase in deformation, bx, ptymatic folding, increased cb-filled fracturing at all angles TCA, epidote alteration locally, Py at 1% levels as f.g. disseminations, very strong magnetism, fracture planes typically at high angles						
21.95	22.03	6e	Felsic Dike	Massive, pale grey-pink, c.g. felsic dyke, ?pegmatitic, <3% mafic minerals, 8mm diam qtz phenos throughout, non-magnetic, trace level disseminated m.g. Py, very sharp upper and lower contacts at high angles TCA.						
22.03	23.75	1a,1e	Mafic to Intermediate Volcanic	As in 14.00m-17.32m, narrow interval with str foliation at 22.90m-23.10m, chloritic, carbonatisation, sharp lower and upper contacts at high angles TCA.						
23.75	24.08	6e	Felsic Dike	Massive, pale grey, c.g., <1% mafic minerals, qtz-phyric, minor sericite, trace level f.g. Py as disseminations.						
24.08	24.50	1a,1e	Mafic to Intermediate Volcanic	As in 17.32m-21.95m, strong cb alteration as wispy veinlets throughout, BLE, epidote, trace level Py as medium grained disseminations.						
24.50	24.63	6e	Felsic Dike	Massive, coarse grained, pink coloured, <3% mafic minerals, moderate foliation developed locally, v. sharp upper and lower contacts at 80deg TCA.						
24.63	30.75	1a,1e	Mafic to Intermediate Volcanic	As in 14.00m-17.32m, massive, minor wispy cb veinlets locally, bluish ?silicification, chlorite alteration on fractures, cPy on fracture plane 30m DHD, str mag, v. sharp lower contact.	445001	29.50	30.75	1.25	0.071	2250
30.75	32.50	6e	Felsic Dike	Grey-black, v.c.g. qtz-phyric dike, pegmatitic, massive, 'late' dike relative to OLFC, hematization on lower contact, 10% mafic minerals, distinctive interval, non mineralised.	445002 445003	30.75 31.50	31.50 32.50	0.75 1.00	<0.005 <0.005	15 14
32.50	33.30	1a,1e	Mafic to Intermediate Volcanic	As in 24.63m-30.75m, dark green/black, strongly magnetism, very weak foliation locally, epidote in fracture planes. Note: 'candy-cane appearance on core starts at 32.50m DHD.	445004	32.50	33.30	0.80	0.009	1510

Rainy River Resources: Off Lake Project

OL09-15

From (m)	To (m)	Litho Code	Lithological Description	Comments	S/N	Assays			Au	Cu
						From	To	Interval	ppm	ppm
33.30	42.14	6a	Off Lake Felsic Dike Complex	White to pale grey, qtz-phyric felsic dike, 3% sub-rounded quartz phenos to 3mm diameter, fine grained groundmass, typically massive with weak foliation developed locally, hematization, epidote, chlorite alteration on fractures locally, brittle fracturing, trace level fine grained Py, very sharp lower contact with coarse grained late dike.	445005	33.30	34.50	1.20	<0.005	204
					445006	34.50	36.00	1.50	<0.005	59
					445007	36.00	37.50	1.50	<0.005	99
					445008	37.50	39.00	1.50	<0.005	152
					445009	39.00	40.50	1.50	<0.005	166
					445010	40.50	41.50	1.50	<0.005	36
					445011	41.50	42.14	0.64	<0.005	93
42.14	42.69	6e	Felsic Dike	As in 30.75m-32.50m, trace level sericite, 5mm wide x-cutting quartz veinlet at 42.43m DHD, unmineralised.	445012	42.14	42.69	0.55	<0.005	6
42.69	43.69	6a	Off Lake Felsic Dike Complex	As in 33.30m-42.14m, typically massive, translucent quartz injection at 42.75m-43.00m DHD, epidotisation, trace level fine grained Py locally, sharp lower contact at 50deg TCA.	445013	42.69	43.69	1.00	<0.005	137
43.69	43.89	6e	Felsic Dike	As in 42.14m-42.69m, massive, non-mineralised, non-magnetic, lower contact at 45deg TCA.,	445014	43.69	43.89	0.20	<0.005	5
43.89	57.64	6a	Off Lake Felsic Dike Complex	As in 42.69m-43.69m, massive, m.g., typically unaltered, minor sericite, trace level f.g. ?cPy, Py as disseminations, very sharp lower contact with dike.	445015	43.89	45.00	1.11	<0.005	29
					445016	45.00	46.50	1.50	<0.005	65
					445017	46.50	48.00	1.50	<0.005	120
					445018	48.00	49.50	1.50	<0.005	132
					445019	49.50	51.00	1.50	<0.005	211
					445020	51.00	52.50	1.50	<0.005	306
					445021	52.50	54.00	1.50	<0.005	143
					445022	54.00	55.50	1.50	<0.005	138
					445023	55.50	57.00	1.50	0.008	1000
					445024	57.00	57.64	0.64	0.042	4840
57.64	57.91	6e	Felsic Dike	As in 43.69m-43.89m, pink colouration, sharp upper and lower contacts.	445025	57.64	57.91	0.27	<0.005	50
57.91	58.86	6a	Off Lake Felsic Dike Complex	As in 43.69m-57.64m, typically massive with brittle fracturing, minor wispy cb veining locally, minor sericite, secondary fine grained Py on fracture planes, trace cPy.	445026	57.91	58.86	0.95	0.027	1990
58.86	62.70	1a,1e	Mafic to Intermediate Volcanic	As in 24.63m-30.75m, v. strong foliation at 60deg TCA, pygmalic folding of wispy cb veining throughout, BLE, chlorite alteration throughout interval, microfracturing, ?brecciation developed, very fine grained secondary Py, 1% level locally, very magnetic.	445027	58.86	60.00	1.14	0.054	2110
					445028	60.00	61.50	1.50	0.021	2010
					445029	61.50	62.70	1.20	0.015	1340
62.70	77.83	6a	Off Lake Felsic Dike Complex	As in 57.91m-58.86m, typically massive with weak foliation at 50deg TCA developed locally, qtz-phyric, quartz-rich pods locally, minor microfracturing, sericite, trace level very fine grained Py as disseminations and fracture filling, very sharp irregular lower contact.	445030	62.70	64.00	1.30	<0.005	424
					445031	64.00	65.50	1.50	<0.005	21
					445032	65.50	67.00	1.50	<0.005	31
					445033	67.00	68.50	1.50	<0.005	20
					445034	68.50	70.00	1.50	<0.005	11
					445035	70.00	71.50	1.50	<0.005	39
					445036	71.50	73.00	1.50	<0.005	31



Rainy River Resources: Off Lake Project

OL09-15

From (m)	To (m)	Litho Code	Lithological Description	Comments	S/N	Assays			Au	Cu
						From	To	Interval	ppm	ppm
					445037	73.00	74.50	1.40	0.013	957
					445038	74.50	76.00	1.50	0.014	1320
					445039	76.00	77.00	1.00	0.025	1750
					445041	77.00	77.83	0.83	0.017	1160
77.83	78.23	1a,1e	Mafic to Intermediate Volcanic	As in 58.86m-62.70m, microfractured, strong foliation at 55deg TCA, unmineralised.	445042	77.83	78.23	1.70	<0.005	54
78.23	91.53	6a	Off Lake Felsic Dike Complex	As in 62.70m-77.83m, microfractured with injections of silica and very fine grained secondary/disseminated Py at 1% level, sericite alteration, sharp lower contact with quartz vein.	445042	77.83	78.23	1.70	<0.005	54
					445043	78.23	79.00	0.77	0.017	1230
					445044	79.00	80.50	1.50	0.026	2010
					445045	80.50	82.00	1.50	0.028	1740
					445046	82.00	83.50	1.50	0.013	1050
					445047	83.50	85.00	1.50	0.008	726
					445048	85.00	86.50	1.50	0.019	966
					445049	86.50	88.00	1.50	0.006	259
					445050	88.00	89.50	1.50	<0.005	172
					445051	89.50	91.00	1.50	0.007	157
					445052	91.00	91.53	0.53	<0.005	162
91.53	92.10	Qtz	Quartz Vein	White blocky Qtz vein, brittle fracturing, minor Off Lake felsic dike material, unmineralised.	445053	91.53	92.10	0.57	<0.005	151
92.10	111.36	6a	Off Lake Felsic Dike Complex	As in 78.23m-91.53m, typically non-foliated, sericitic, unmineralised, sharp lower contact.	445054	92.10	93.50	1.40	<0.005	76
					445055	93.50	95.00	1.50	<0.005	5
					445056	95.00	96.50	1.50	<0.005	5
					445057	96.50	98.00	1.50	<0.005	3
					445058	98.00	99.50	1.50	<0.005	3
					445059	99.50	101.00	1.50	<0.005	3
					445060	101.00	102.50	1.50	<0.005	3
					445061	102.50	104.00	1.50	<0.005	3
					445062	104.00	105.50	1.50	<0.005	5
					445063	105.50	107.00	1.50	<0.005	4
					445064	107.00	108.50	1.50	<0.005	3
					445065	108.50	109.50	1.00	<0.005	5
					445066	109.50	110.50	1.00	<0.005	3
					445067	110.50	111.36	0.86	<0.005	674
111.36	125.70	6a,6e	Off Lake Felsic Dike Complex	Dark green/black, fine grained, intercalated OLFC, later dikes and strong cb, silica flooding in microfracturing, weak foliation locally at all angles TCA, ?Bx Zone, chlorite, sericite, very fine grained Py as disseminations and fracture filling (secondary), minor cPy and ?Po, magnetic/nonmag intervals, lower contact with 'late' dike at 45deg TCA.	445068	111.36	112.50	1.14	0.013	1820
					445069	112.50	114.00	1.50	0.009	1760
					445070	114.00	115.00	1.00	<0.005	34
					445071	115.00	115.72	0.72	<0.005	99
					445072	115.72	116.18	0.46	0.016	4240
					445073	116.18	116.95	0.77	<0.005	344
					445074	116.95	117.80	0.85	0.005	1820
					445075	117.80	119.09	1.29	0.011	1630
					445076	119.09	120.21	1.12	0.007	1150
					445077	120.21	121.50	1.29	0.021	2810

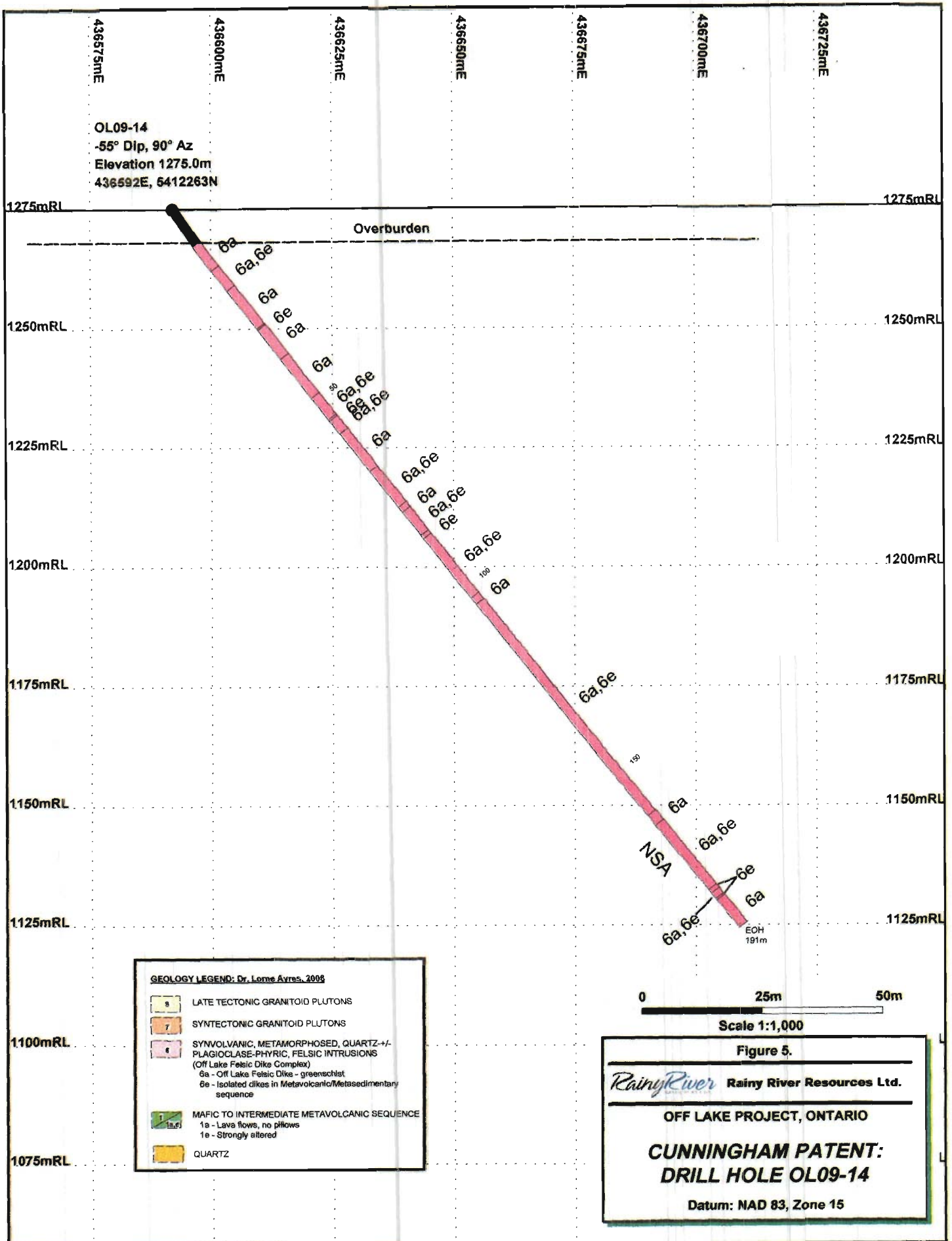


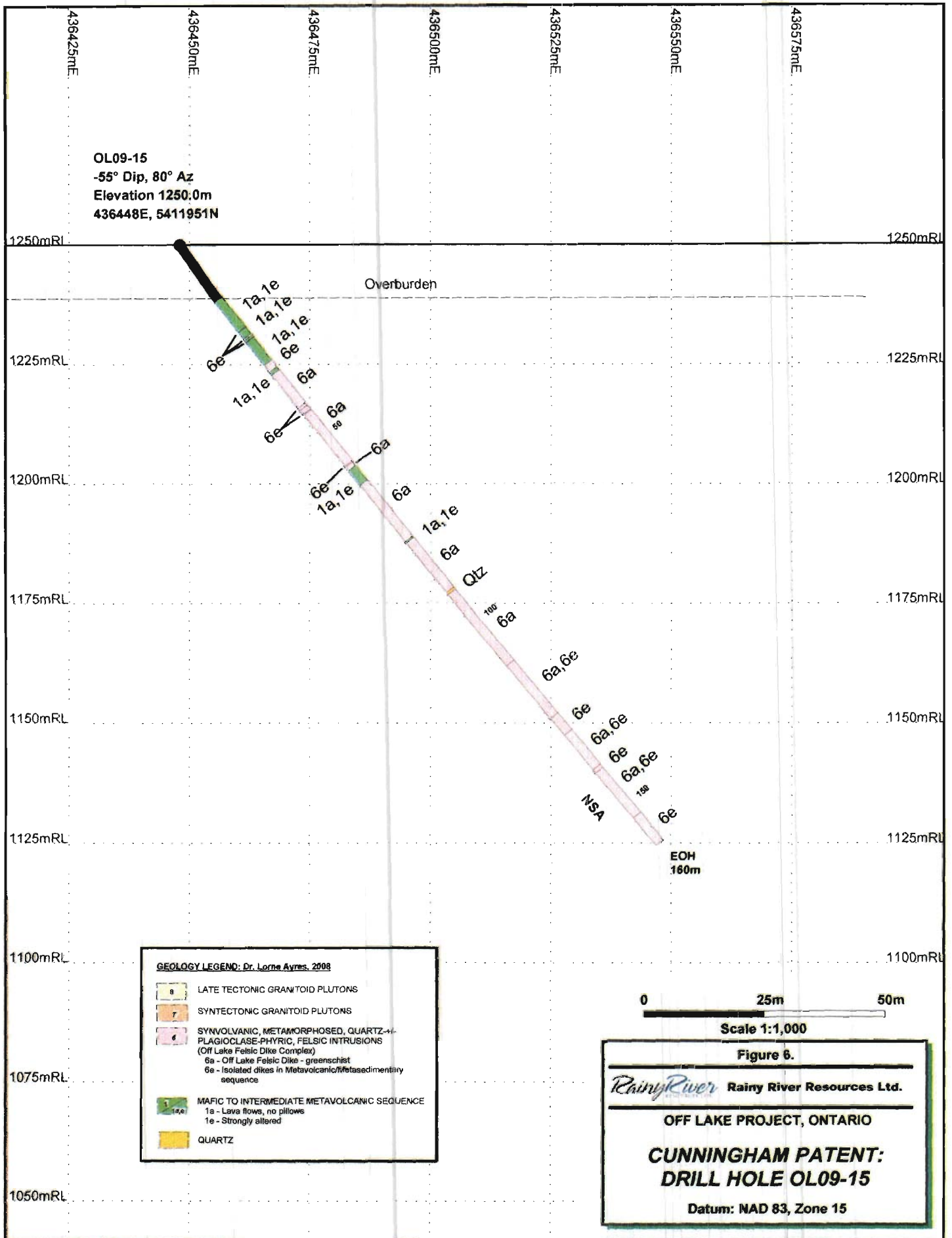
**APPENDIX B**

**Cunningham Patent Diamond Drill Sections**

OL09\_14 (1:1 000)

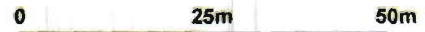
OL09\_15 (1:1 000)





**GEOLOGY LEGEND: Dr. Lorne Ayres, 2008**

8	LATE TECTONIC GRANITOID PLUTONS
7	SYNTECTONIC GRANITOID PLUTONS
6	SYNVOLCANIC, METAMORPHOSED, QUARTZ-PLAGIOCLASE-PHYRIC, FELSIC INTRUSIONS (Off Lake Felsic Dike Complex) 6a - Off Lake Felsic Dike - greenschist 6e - Isolated dikes in Metavolcanic/Metasedimentary sequence
3	MAFIC TO INTERMEDIATE METAVOLCANIC SEQUENCE 1a - Lava flows, no pillows 1e - Strongly altered
Qtz	QUARTZ



Scale 1:1,000

**Figure 6.**

*Rainy River* Rainy River Resources Ltd.

**OFF LAKE PROJECT, ONTARIO**

**CUNNINGHAM PATENT:  
DRILL HOLE OL09-15**

Datum: NAD 83, Zone 15

**APPENDIX C**  
**ALS CHEMEX Assay Certificates**



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: RAINY RIVER RESOURCES LTD.

303-1620 WEST 8TH AVENUE

VANCOUVER BC V6J 1V4

Page: 1

Finalized Date: 6-MAR-2009

This copy reported on 11-MAR-2009

Account: RRR

## CERTIFICATE TB09020137

Project: OFF LAKE

P.O. No.:

This report is for 104 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-FEB-2009.

The following have access to data associated with this certificate:

CJ BAKER  
NELSON BAKER

NELSON BAKER

CJ BAKER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
DRY-21	High Temperature Drying

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: RAINY RIVER RESOURCES LTD.  
ATTN: CJ BAKER  
P.O. BOX 5, 48 MARION STREET  
ECHO LAKES ESTATE  
EMO ON POW 1E0

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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VANCOUVER BC V6J 1V4

Page: 2 - A

Total # Pages: 4 (A - C)

Finalized Date: 6-MAR-2009

Account: RRR

Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09020137

Sample Description	Method Analyte Units LOR	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	
		Recvd Wt. 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
H445001		3.09	0.071	2.9	0.73	<2	<10	10	<0.5	<2	0.75	<0.5	21	69	2250	6.60
H445002		1.53	<0.005	<0.2	0.47	<2	<10	30	<0.5	<2	0.21	<0.5	2	10	15	0.91
H445003		2.01	<0.005	<0.2	0.41	<2	<10	20	<0.5	<2	0.22	<0.5	2	11	14	0.87
H445004		1.86	0.009	1.4	1.85	<2	<10	100	<0.5	<2	1.12	<0.5	30	41	1510	5.21
H445005		2.56	<0.005	0.3	1.68	<2	<10	140	<0.5	<2	0.39	<0.5	7	17	204	2.50
H445006		3.23	<0.005	0.3	1.54	<2	<10	110	<0.5	<2	0.63	<0.5	3	13	59	1.93
H445007		3.31	<0.005	0.3	1.61	2	<10	140	<0.5	<2	0.48	<0.5	4	11	99	2.22
H445008		3.54	<0.005	0.2	1.67	<2	<10	150	<0.5	<2	0.47	<0.5	4	12	152	2.29
H445009		3.34	<0.005	0.2	1.17	<2	<10	120	<0.5	<2	0.54	<0.5	4	11	166	1.90
H445010		2.41	<0.005	<0.2	1.23	<2	<10	140	<0.5	<2	0.64	<0.5	3	13	36	1.77
H445011		1.41	<0.005	<0.2	1.10	<2	<10	110	<0.5	<2	0.34	<0.5	4	11	93	1.86
H445012		1.23	<0.005	<0.2	0.44	<2	<10	20	<0.5	<2	0.25	<0.5	2	8	6	0.71
H445013		2.06	<0.005	0.2	1.09	<2	<10	110	<0.5	<2	0.31	<0.5	3	13	137	1.75
H445014		0.52	<0.005	<0.2	0.89	<2	<10	70	<0.5	2	0.41	<0.5	3	17	5	1.53
H445015		2.42	<0.005	0.2	0.90	<2	<10	100	<0.5	2	0.72	<0.5	5	10	29	1.56
H445016		3.16	<0.005	0.2	1.01	<2	<10	120	<0.5	<2	0.89	<0.5	4	9	65	1.71
H445017		3.43	<0.005	0.3	1.05	<2	<10	110	<0.5	<2	0.76	<0.5	4	9	120	1.89
H445018		3.39	<0.005	0.2	1.23	<2	<10	140	<0.5	<2	0.79	<0.5	4	9	132	2.03
H445019		3.20	<0.005	0.4	1.22	<2	<10	120	<0.5	<2	0.88	<0.5	5	10	211	1.96
H445020		3.09	<0.005	0.5	1.06	<2	<10	110	<0.5	<2	0.89	<0.5	5	12	306	1.88
H445021		3.13	<0.005	0.2	1.31	<2	<10	140	<0.5	<2	0.82	<0.5	2	10	143	2.02
H445022		3.13	<0.005	0.2	1.28	<2	<10	110	<0.5	<2	0.80	<0.5	2	10	138	2.18
H445023		3.00	0.008	1.3	1.45	<2	<10	120	<0.5	<2	0.32	<0.5	6	11	1000	2.77
H445024		1.60	0.042	6.7	0.91	<2	<10	60	<0.5	2	0.36	<0.5	10	13	4840	2.36
H445025		0.55	<0.005	<0.2	0.18	<2	<10	10	<0.5	<2	0.24	<0.5	<1	5	50	0.34
H445026		2.04	0.027	3.0	1.12	2	<10	60	<0.5	2	0.18	<0.5	13	13	1990	3.02
H445027		2.42	0.054	4.1	1.03	2	<10	30	<0.5	2	0.92	0.5	20	52	2110	6.42
H445028		3.55	0.021	2.2	1.05	2	<10	50	<0.5	2	1.01	<0.5	26	51	2010	7.58
H445029		2.95	0.015	1.5	1.91	<2	<10	170	<0.5	3	1.49	<0.5	25	43	1340	5.62
H445030		3.11	<0.005	0.6	1.92	2	<10	180	<0.5	2	0.96	<0.5	10	16	424	3.25
H445031		2.98	<0.005	<0.2	0.99	2	<10	90	<0.5	<2	0.31	<0.5	4	9	21	1.62
H445032		3.35	<0.005	<0.2	1.38	<2	<10	150	<0.5	<2	0.95	<0.5	5	10	31	1.80
H445033		3.30	<0.005	<0.2	1.19	<2	<10	120	<0.5	<2	1.01	<0.5	4	10	20	2.00
H445034		3.31	<0.005	<0.2	1.25	<2	<10	120	<0.5	<2	1.11	<0.5	4	9	11	1.82
H445035		3.45	<0.005	<0.2	1.00	<2	<10	100	<0.5	<2	0.90	<0.5	5	9	39	1.87
H445036		3.17	<0.005	0.2	1.00	<2	<10	90	<0.5	<2	1.17	<0.5	3	8	31	1.67
H445037		3.24	0.013	1.3	0.91	<2	<10	60	<0.5	<2	1.12	<0.5	13	16	957	2.28
H445038		3.07	0.014	1.6	0.87	<2	<10	30	<0.5	<2	1.03	<0.5	18	14	1320	2.62
H445039		2.19	0.025	2.5	0.76	2	<10	60	<0.5	2	0.69	<0.5	19	14	1750	2.52
H445040		0.10	1.650	0.3	1.41	4	<10	70	0.7	<2	0.54	<0.5	18	51	26	5.38





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Page: 2 - B

Total # Pages: 4 (A - C)

Finalized Date: 6-MAR-2009

Account: RRR

Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09020137

Sample Description	Method Analyte Units LOR	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	ME-ICP41
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
H445001		10	<1	0.22	<10	0.66	152	2	0.10	60	560	2	0.58	<2	5	11
H445002		<10	<1	0.33	10	0.21	143	<1	0.04	13	240	17	0.04	<2	<1	15
H445003		<10	<1	0.26	10	0.18	134	<1	0.04	9	170	21	0.15	<2	<1	17
H445004		10	<1	0.87	<10	1.23	445	6	0.15	60	640	3	2.98	<2	8	21
H445005		10	<1	0.98	<10	0.80	644	1	0.09	15	280	3	0.64	<2	3	14
H445006		10	<1	0.76	10	0.53	602	1	0.08	10	300	3	0.17	<2	1	28
H445007		10	<1	0.84	10	0.59	588	6	0.07	7	280	2	0.17	<2	2	17
H445008		10	<1	0.89	10	0.57	607	1	0.10	8	290	2	0.25	<2	2	18
H445009		<10	<1	0.69	10	0.44	536	<1	0.06	7	290	2	0.21	<2	1	12
H445010		10	<1	0.69	10	0.49	539	1	0.07	8	300	3	0.11	<2	1	14
H445011		<10	<1	0.71	10	0.48	524	1	0.06	8	330	2	0.19	<2	1	10
H445012		<10	<1	0.31	10	0.19	120	<1	0.03	5	110	13	0.04	<2	<1	15
H445013		<10	<1	0.72	10	0.60	528	1	0.05	7	270	3	0.19	<2	1	11
H445014		<10	1	0.70	30	0.54	315	1	0.04	12	260	3	<0.01	3	1	14
H445015		<10	1	0.62	10	0.44	502	<1	0.04	6	290	<2	0.19	2	1	9
H445016		<10	<1	0.66	10	0.44	537	<1	0.04	7	290	<2	0.18	2	1	10
H445017		<10	1	0.63	10	0.48	560	<1	0.04	6	280	<2	0.24	<2	1	10
H445018		<10	<1	0.73	10	0.48	594	<1	0.06	8	300	2	0.27	<2	1	14
H445019		<10	<1	0.65	10	0.46	569	<1	0.06	7	300	2	0.38	<2	1	15
H445020		<10	<1	0.64	10	0.44	582	<1	0.06	7	320	2	0.40	<2	1	13
H445021		10	<1	0.80	10	0.59	719	<1	0.06	7	320	3	0.16	<2	1	14
H445022		<10	<1	0.60	10	0.63	642	1	0.06	7	310	2	0.13	<2	1	13
H445023		10	<1	0.87	<10	0.75	539	1	0.07	10	230	<2	0.56	<2	1	11
H445024		10	<1	0.44	<10	0.62	354	2	0.05	16	210	5	0.90	<2	2	6
H445025		<10	<1	0.13	<10	0.04	76	42	0.02	1	20	15	0.01	<2	<1	5
H445026		10	<1	0.70	<10	0.65	334	7	0.06	13	140	7	1.15	<2	3	6
H445027		10	<1	0.34	<10	0.98	265	1	0.13	48	510	<2	1.27	<2	5	15
H445028		10	<1	0.30	<10	0.83	360	4	0.16	53	470	<2	2.26	<2	6	13
H445029		10	<1	0.62	<10	1.16	379	2	0.17	47	450	<2	1.60	<2	6	40
H445030		<10	<1	0.86	<10	0.75	588	1	0.11	15	310	<2	1.20	<2	3	30
H445031		<10	<1	0.63	20	0.45	434	<1	0.07	6	290	3	0.18	<2	1	15
H445032		<10	<1	0.77	10	0.60	684	1	0.09	6	300	<2	0.21	<2	1	18
H445033		<10	<1	0.73	10	0.53	651	<1	0.07	6	310	<2	0.32	<2	1	13
H445034		<10	<1	0.72	10	0.51	633	<1	0.09	6	340	<2	0.15	<2	1	18
H445035		<10	<1	0.54	10	0.44	566	<1	0.06	6	320	4	0.30	<2	1	12
H445036		<10	<1	0.56	10	0.41	524	<1	0.06	6	310	<2	0.12	<2	<1	14
H445037		<10	<1	0.39	10	0.51	463	1	0.05	8	250	<2	0.95	<2	1	11
H445038		<10	<1	0.16	<10	0.44	281	3	0.10	10	240	<2	1.14	<2	1	13
H445039		<10	<1	0.28	<10	0.44	225	1	0.07	11	260	<2	1.30	<2	1	11
H445040		<10	<1	0.38	10	1.55	386	2	0.58	67	920	50	3.49	<2	1	124



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Page: 2 - C

Total # Pages: 4 (A - C)

Finalized Date: 6-MAR-2009

Account: RRR

Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09020137

Sample Description	Method Analyte Units LOR	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
		20	0.01	10	10	1	10	2
H445001		<20	0.16	<10	<10	185	<10	42
H445002		30	0.05	<10	10	8	<10	22
H445003		30	0.04	<10	10	8	<10	20
H445004		<20	0.30	<10	<10	130	<10	65
H445005		<20	0.16	<10	<10	50	<10	41
H445006		<20	0.13	<10	<10	21	<10	47
H445007		<20	0.14	<10	<10	24	20	45
H445008		<20	0.15	<10	<10	28	<10	50
H445009		<20	0.11	<10	<10	18	<10	47
H445010		<20	0.11	<10	<10	19	<10	51
H445011		<20	0.12	<10	<10	19	<10	50
H445012		20	0.05	<10	<10	7	<10	18
H445013		<20	0.11	<10	<10	22	<10	33
H445014		<20	0.12	<10	<10	21	<10	32
H445015		<20	0.09	<10	<10	16	<10	44
H445016		<20	0.10	<10	<10	17	<10	46
H445017		<20	0.11	<10	<10	18	<10	42
H445018		<20	0.11	<10	<10	18	<10	48
H445019		<20	0.11	<10	<10	16	<10	55
H445020		<20	0.10	<10	<10	14	<10	47
H445021		<20	0.12	<10	<10	20	<10	42
H445022		<20	0.12	<10	<10	20	<10	49
H445023		<20	0.12	<10	<10	26	<10	68
H445024		<20	0.09	<10	<10	32	<10	64
H445025		20	0.01	<10	10	1	<10	4
H445026		<20	0.10	<10	<10	35	<10	68
H445027		<20	0.15	<10	<10	162	<10	77
H445028		<20	0.16	<10	<10	172	<10	74
H445029		<20	0.20	<10	<10	131	<10	82
H445030		<20	0.15	<10	<10	44	<10	56
H445031		<20	0.10	<10	<10	16	<10	48
H445032		<20	0.10	<10	<10	15	<10	47
H445033		<20	0.10	<10	<10	15	<10	45
H445034		<20	0.10	<10	<10	16	<10	44
H445035		<20	0.09	<10	<10	13	<10	70
H445036		<20	0.08	<10	<10	12	<10	48
H445037		<20	0.06	<10	<10	16	<10	52
H445038		<20	0.03	<10	<10	22	<10	49
H445039		<20	0.05	<10	<10	25	<10	45
H445040		<20	0.32	<10	<10	41	<10	52



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Page: 3 - A

Total # Pages: 4 (A - C)

Finalized Date: 6-MAR-2009

Account: RRR

Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09020137

Sample Description	Method Analyte Units LOR	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
		Recvd Wt. 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
H445041		1.68	0.017	1.4	0.85	<2	<10	90	<0.5	<2	0.51	<0.5	17	25	1160	2.68
H445042		0.86	<0.005	<0.2	1.89	2	<10	730	<0.5	<2	1.37	<0.5	23	209	54	2.55
H445043		1.65	0.017	1.4	0.89	2	<10	120	<0.5	<2	0.86	<0.5	11	24	1230	3.00
H445044		3.18	0.026	2.9	0.74	<2	<10	40	<0.5	<2	0.98	<0.5	11	17	2010	2.55
H445045		3.15	0.028	2.5	0.80	<2	<10	50	<0.5	<2	0.77	<0.5	10	17	1740	2.39
H445046		3.33	0.013	1.3	0.97	<2	<10	60	<0.5	<2	0.63	<0.5	11	18	1050	2.66
H445047		3.08	0.008	0.8	0.73	<2	<10	30	<0.5	<2	0.79	<0.5	8	15	726	2.41
H445048		3.25	0.019	1.2	1.11	<2	<10	100	<0.5	<2	0.57	<0.5	5	20	966	3.02
H445049		3.28	0.006	0.3	1.21	2	<10	120	<0.5	<2	0.57	<0.5	4	10	259	1.82
H445050		3.46	<0.005	0.3	1.40	<2	<10	120	<0.5	<2	0.84	<0.5	6	8	172	1.93
H445051		2.74	0.007	0.4	1.21	2	<10	120	<0.5	<2	0.47	<0.5	5	10	157	1.77
H445052		1.46	<0.005	0.2	1.16	<2	<10	120	<0.5	<2	0.33	<0.5	6	6	162	1.77
H445053		1.04	<0.005	<0.2	0.64	2	<10	60	<0.5	<2	0.21	<0.5	1	8	151	0.79
H445054		2.85	<0.005	0.3	1.12	<2	<10	150	<0.5	<2	0.62	<0.5	8	37	76	1.49
H445055		3.17	<0.005	<0.2	0.54	<2	<10	80	<0.5	<2	0.72	<0.5	2	8	5	0.78
H445056		3.52	<0.005	<0.2	0.53	<2	<10	70	<0.5	<2	0.73	<0.5	2	7	5	0.82
H445057		3.35	<0.005	<0.2	0.56	<2	<10	70	<0.5	<2	0.67	<0.5	2	8	3	0.83
H445058		3.15	<0.005	<0.2	0.54	<2	<10	70	<0.5	<2	0.72	<0.5	2	14	3	0.87
H445059		3.27	<0.005	<0.2	0.58	<2	<10	80	<0.5	<2	0.66	<0.5	2	8	3	0.83
H445060		3.17	<0.005	<0.2	0.56	<2	<10	70	<0.5	<2	0.64	<0.5	3	8	3	0.90
H445061		3.08	<0.005	<0.2	0.59	<2	<10	70	<0.5	<2	0.65	<0.5	2	8	3	0.84
H445062		3.36	<0.005	<0.2	0.57	<2	<10	70	<0.5	<2	0.65	<0.5	3	8	5	0.90
H445063		3.09	<0.005	<0.2	0.56	<2	<10	60	<0.5	4	0.65	<0.5	2	8	4	0.85
H445064		3.13	<0.005	<0.2	0.55	<2	<10	60	<0.5	<2	0.61	<0.5	2	8	3	0.86
H445065		2.05	<0.005	<0.2	0.52	<2	<10	50	<0.5	4	0.63	<0.5	3	9	5	0.90
H445066		2.27	<0.005	<0.2	0.51	2	<10	50	<0.5	4	0.50	<0.5	3	8	3	0.88
H445067		1.98	<0.005	0.3	3.72	4	<10	180	0.6	5	0.26	0.8	101	903	674	16.1
H445068		2.75	0.013	2.0	2.49	2	<10	150	<0.5	4	0.53	<0.5	16	60	1820	8.32
H445069		3.30	0.009	1.8	1.25	<2	<10	120	<0.5	<2	0.53	<0.5	15	15	1760	4.86
H445070		2.24	<0.005	0.3	1.18	<2	<10	120	<0.5	<2	0.21	<0.5	4	9	34	2.11
H445071		1.59	<0.005	0.4	1.19	<2	<10	130	<0.5	<2	0.22	<0.5	4	8	99	2.26
H445072		1.07	0.016	4.2	3.09	2	<10	60	<0.5	8	0.52	<0.5	54	57	4240	12.30
H445073		1.91	<0.005	0.5	1.64	<2	<10	240	<0.5	5	0.17	<0.5	6	14	344	3.24
H445074		1.97	0.005	2.0	3.01	2	<10	80	<0.5	5	0.25	<0.5	31	55	1820	8.71
H445075		3.14	0.011	1.9	1.04	<2	<10	60	<0.5	6	0.50	<0.5	25	43	1630	8.14
H445076		2.76	0.007	1.3	1.43	<2	<10	160	<0.5	<2	0.22	0.6	9	12	1150	3.94
H445077		3.24	0.021	3.2	1.66	<2	<10	100	<0.5	4	0.68	0.5	22	57	2810	10.10
H445078		3.59	<0.005	0.9	1.04	<2	<10	80	<0.5	<2	0.17	<0.5	10	19	854	3.20
H445079		3.76	<0.005	0.9	0.83	<2	<10	50	<0.5	<2	0.20	<0.5	10	18	866	3.73
H445080		2.07	0.011	0.2	0.58	<2	<10	80	<0.5	<2	1.30	<0.5	7	99	43	2.21



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Page: 3 - B

Total # Pages: 4 (A - C)

Finalized Date: 6-MAR-2009

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Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09020137

Sample Description	Method Analyte Units LOR	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	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
H445041		<10	<1	0.45	10	0.49	240	32	0.07	17	270	2	1.45	<2	1	15
H445042		<10	<1	1.36	90	1.96	416	<1	0.10	125	2170	3	0.31	<2	2	167
H445043		<10	<1	0.36	<10	0.51	212	1	0.09	11	270	<2	1.24	<2	1	21
H445044		<10	<1	0.21	<10	0.43	225	2	0.08	11	230	<2	1.50	<2	1	13
H445045		<10	<1	0.30	<10	0.44	252	3	0.09	10	230	2	1.20	<2	1	12
H445046		<10	<1	0.42	<10	0.56	287	2	0.09	11	240	<2	0.97	<2	1	12
H445047		<10	<1	0.20	<10	0.36	224	2	0.08	8	190	2	0.48	<2	1	14
H445048		10	<1	0.47	<10	0.57	355	1	0.09	10	230	<2	0.46	<2	1	13
H445049		<10	<1	0.77	10	0.64	571	6	0.06	6	310	<2	0.29	<2	<1	14
H445050		<10	<1	0.73	10	0.87	675	1	0.05	7	370	<2	0.38	<2	<1	18
H445051		<10	<1	0.79	10	0.71	555	5	0.07	6	280	<2	0.31	<2	<1	12
H445052		<10	<1	0.76	10	0.67	433	2	0.04	6	330	<2	0.59	<2	<1	13
H445053		<10	<1	0.34	<10	0.30	158	<1	0.02	2	260	<2	0.19	<2	1	13
H445054		<10	<1	0.77	20	0.80	300	<1	0.06	28	1100	<2	0.18	<2	1	59
H445055		<10	<1	0.36	40	0.18	132	2	0.05	3	420	9	<0.01	<2	<1	44
H445056		<10	<1	0.33	40	0.19	134	<1	0.05	3	410	10	<0.01	<2	<1	42
H445057		<10	<1	0.34	40	0.20	132	1	0.06	4	410	10	<0.01	<2	<1	47
H445058		<10	<1	0.34	40	0.19	131	<1	0.05	4	430	11	0.02	<2	<1	42
H445059		<10	<1	0.35	40	0.20	131	<1	0.06	2	420	11	<0.01	<2	<1	43
H445060		<10	<1	0.33	40	0.20	138	<1	0.05	2	420	9	<0.01	<2	<1	40
H445061		<10	<1	0.35	40	0.19	137	<1	0.06	2	420	10	<0.01	<2	<1	51
H445062		<10	<1	0.31	40	0.21	144	<1	0.05	3	430	10	<0.01	<2	<1	45
H445063		<10	<1	0.29	40	0.21	135	<1	0.04	4	430	10	<0.01	<2	<1	50
H445064		<10	<1	0.29	40	0.22	130	<1	0.04	2	430	8	0.01	<2	<1	45
H445065		<10	<1	0.14	40	0.23	136	<1	0.04	3	430	7	<0.01	<2	<1	44
H445066		<10	<1	0.21	40	0.23	136	<1	0.04	3	430	10	<0.01	<2	1	38
H445067		10	<1	0.08	10	0.10	1110	1	<0.01	309	370	18	0.03	<2	58	14
H445068		10	<1	1.22	<10	1.62	487	2	0.05	45	430	3	2.88	<2	4	20
H445069		<10	<1	0.75	<10	0.72	312	5	0.05	22	290	3	3.10	<2	2	20
H445070		<10	<1	0.81	<10	0.73	516	2	0.05	6	280	<2	0.82	<2	1	14
H445071		<10	<1	0.77	<10	0.86	481	3	0.05	8	280	<2	0.74	<2	1	14
H445072		10	<1	1.67	10	1.78	475	1	0.14	77	430	<2	6.70	<2	10	30
H445073		10	<1	1.15	<10	0.95	585	1	0.08	11	240	<2	0.81	<2	2	12
H445074		10	<1	2.04	<10	1.88	463	8	0.07	35	450	<2	3.46	<2	8	10
H445075		10	<1	0.56	10	0.61	222	2	0.09	36	410	2	2.48	<2	5	10
H445076		10	<1	0.95	10	0.83	416	1	0.06	15	200	<2	1.57	<2	2	7
H445077		10	<1	0.82	<10	1.01	306	2	0.13	46	480	<2	3.37	<2	6	13
H445078		10	<1	0.71	<10	0.65	255	3	0.02	14	140	<2	1.28	<2	2	5
H445079		<10	<1	0.50	<10	0.47	227	3	0.05	15	150	2	1.70	<2	2	6
H445080		<10	<1	0.26	90	0.54	250	1	0.10	26	2790	3	0.01	<2	2	174



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Page: 3 - C

Total # Pages: 4 (A - C)

Finalized Date: 6-MAR-2009

Account: RRR

Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09020137

Sample Description	Method Analyte Units LOR	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
		20	0.01	10	10	1	10	2
H445041		<20	0.07	<10	<10	23	<10	43
H445042		<20	0.21	<10	<10	55	<10	63
H445043		<20	0.06	<10	<10	34	<10	42
H445044		<20	0.04	<10	<10	25	<10	40
H445045		<20	0.05	<10	<10	23	<10	49
H445046		<20	0.07	<10	<10	30	<10	57
H445047		<20	0.04	<10	<10	27	<10	34
H445048		<20	0.08	<10	<10	36	<10	61
H445049		<20	0.10	<10	<10	13	<10	49
H445050		<20	0.09	<10	<10	14	<10	58
H445051		<20	0.10	<10	<10	13	<10	48
H445052		<20	0.07	<10	<10	12	<10	49
H445053		<20	0.04	<10	<10	14	<10	24
H445054		<20	0.12	<10	<10	18	<10	46
H445055		20	0.07	<10	<10	5	<10	21
H445056		<20	0.07	<10	<10	5	<10	21
H445057		20	0.08	<10	<10	6	<10	22
H445058		20	0.07	<10	<10	5	<10	23
H445059		20	0.08	<10	<10	6	<10	24
H445060		<20	0.07	<10	<10	6	<10	24
H445061		20	0.07	<10	<10	6	<10	29
H445062		<20	0.07	<10	<10	6	<10	35
H445063		<20	0.08	<10	<10	6	<10	36
H445064		<20	0.08	<10	<10	7	<10	32
H445065		<20	0.07	<10	<10	7	<10	21
H445066		<20	0.07	<10	<10	7	<10	22
H445067		<20	0.21	<10	<10	238	<10	122
H445068		<20	0.27	<10	<10	185	<10	175
H445069		<20	0.12	<10	<10	57	<10	73
H445070		<20	0.08	<10	<10	14	<10	38
H445071		<20	0.09	<10	<10	16	<10	53
H445072		<20	0.26	<10	<10	217	<10	169
H445073		<20	0.15	<10	<10	42	<10	74
H445074		<20	0.30	<10	<10	218	<10	176
H445075		<20	0.17	<10	<10	159	<10	82
H445076		<20	0.13	<10	<10	36	<10	85
H445077		<20	0.20	<10	<10	216	<10	153
H445078		<20	0.06	<10	<10	56	<10	71
H445079		<20	0.09	<10	<10	64	<10	43
H445080		<20	0.18	<10	<10	58	<10	28



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Page: 4 - A

Total # Pages: 4 (A - C)

Finalized Date: 6-MAR-2009

Account: RRR

Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09020137

Sample Description	Method Analyte Units LOR	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
		Recvd Wt. 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
H445081		2.61	0.008	1.9	0.93	<2	<10	10	<0.5	3	0.36	<0.5	17	30	1990	7.26
H445082		3.10	<0.005	0.5	0.68	<2	<10	60	<0.5	3	0.40	<0.5	5	15	463	2.56
H445083		2.93	<0.005	<0.2	0.74	<2	<10	80	<0.5	<2	0.42	<0.5	4	11	9	1.11
H445084		2.70	<0.005	0.4	0.86	<2	<10	90	<0.5	<2	0.37	<0.5	6	12	113	1.47
H445085		1.72	<0.005	<0.2	0.64	<2	<10	80	<0.5	<2	0.44	<0.5	3	8	29	1.05
H445086		3.24	0.056	3.1	0.90	<2	<10	60	<0.5	<2	0.54	0.5	10	46	2320	9.89
H445087		2.02	0.018	1.2	0.69	<2	<10	30	<0.5	<2	0.45	<0.5	7	35	944	6.02
H445088		3.12	0.016	2.3	1.69	<2	<10	100	<0.5	4	0.49	<0.5	19	44	2600	8.15
H445089		3.19	0.015	1.9	0.70	<2	<10	50	<0.5	3	0.47	<0.5	10	35	1580	5.66
H445090		2.50	0.022	2.4	0.67	<2	<10	20	<0.5	<2	0.45	<0.5	11	50	2060	7.91
H445091		3.13	0.038	2.4	0.75	<2	<10	20	<0.5	<2	0.35	<0.5	14	56	2210	8.71
H445092		2.73	0.023	1.7	0.71	<2	<10	80	<0.5	<2	0.30	<0.5	5	14	1170	2.23
H445093		2.04	0.011	1.2	0.96	<2	<10	100	<0.5	<2	0.35	<0.5	6	12	896	2.39
H445094		2.04	<0.005	0.3	0.44	<2	<10	50	<0.5	<2	0.36	<0.5	2	6	273	0.99
H445095		2.99	0.023	2.2	1.01	2	<10	110	<0.5	2	0.18	<0.5	6	14	1490	2.43
H445096		3.20	0.041	2.8	0.76	<2	<10	60	<0.5	2	0.17	<0.5	6	15	2200	1.99
H445097		3.95	0.017	1.6	0.81	2	<10	40	<0.5	2	0.21	<0.5	5	13	1350	2.22
H445098		3.49	0.028	2.1	0.81	<2	<10	60	<0.5	3	0.17	<0.5	7	15	1530	2.21
H445099		3.30	0.015	1.2	0.82	2	<10	80	<0.5	2	0.30	<0.5	7	16	1100	2.71
H445100		3.53	0.008	1.2	0.77	<2	<10	80	<0.5	5	0.22	<0.5	5	15	974	2.45
H445101		3.44	<0.005	0.6	0.74	<2	<10	70	<0.5	2	0.32	<0.5	6	19	709	2.78
H445102		2.53	0.014	2.2	0.71	<2	<10	20	<0.5	3	0.57	<0.5	19	36	1850	5.33
H445103		1.96	0.027	2.6	1.02	2	<10	60	<0.5	3	0.45	<0.5	9	34	1790	3.64
H445104		1.25	<0.005	0.2	0.37	2	<10	40	<0.5	2	0.25	<0.5	1	5	27	0.63



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Page: 4 - B

Total # Pages: 4 (A - C)

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Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09020137

Sample Description	Method Analyte Units LOR	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	ME-ICP41
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	0.01	1
H445081		10	<1	0.39	<10	0.64	205	2	0.05	37	270	<2	3.64	<2	3	7
H445082		<10	<1	0.40	20	0.33	186	2	0.05	11	360	7	0.59	<2	1	17
H445083		<10	<1	0.50	30	0.34	198	<1	0.06	7	440	7	0.01	<2	1	29
H445084		<10	<1	0.62	30	0.46	219	<1	0.06	7	470	6	0.14	<2	1	28
H445085		<10	<1	0.43	30	0.24	174	<1	0.07	5	380	6	0.01	<2	1	29
H445086		10	<1	0.57	<10	0.60	185	1	0.09	35	380	<2	0.64	<2	5	13
H445087		10	<1	0.40	10	0.46	129	1	0.10	23	280	3	0.41	<2	3	12
H445088		10	<1	0.98	10	1.05	324	2	0.09	33	450	<2	2.06	<2	4	10
H445089		10	<1	0.37	<10	0.42	194	3	0.08	23	300	<2	1.21	<2	3	10
H445090		10	<1	0.16	10	0.53	80	2	0.09	34	480	<2	1.52	<2	4	7
H445091		10	<1	0.21	10	0.67	110	4	0.09	33	480	<2	0.82	<2	3	9
H445092		<10	<1	0.42	<10	0.42	137	1	0.06	9	250	2	0.42	<2	1	10
H445093		<10	<1	0.66	<10	0.54	181	1	0.08	8	250	<2	0.59	<2	1	11
H445094		<10	<1	0.27	20	0.14	135	1	0.06	3	90	10	0.13	<2	<1	13
H445095		10	<1	0.65	<10	0.64	272	4	0.08	9	220	<2	0.72	<2	1	9
H445096		<10	<1	0.47	<10	0.56	235	4	0.05	8	160	<2	0.95	<2	1	6
H445097		<10	<1	0.36	<10	0.55	235	2	0.08	7	170	3	1.03	<2	2	5
H445098		10	<1	0.37	<10	0.55	228	2	0.06	9	160	3	0.91	<2	2	5
H445099		<10	<1	0.33	<10	0.56	165	1	0.08	11	210	<2	0.92	<2	1	8
H445100		10	<1	0.38	<10	0.48	162	1	0.08	9	230	<2	0.86	<2	1	7
H445101		<10	<1	0.48	10	0.45	184	1	0.06	12	260	6	0.79	<2	1	13
H445102		10	<1	0.17	10	0.64	124	2	0.07	30	330	<2	1.99	<2	3	8
H445103		10	<1	0.50	<10	0.84	194	2	0.06	18	320	<2	1.12	<2	4	7
H445104		<10	<1	0.21	10	0.10	93	<1	0.04	2	150	6	0.02	<2	<1	16



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Page: 4 - C

Total # Pages: 4 (A - C)

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Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09020137

Sample Description	Method Analyte Units LOR	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
H445081		<20	0.10	<10	<10	84	<10	85
H445082		<20	0.08	<10	<10	35	<10	46
H445083		<20	0.09	<10	<10	10	<10	35
H445084		<20	0.10	<10	<10	14	<10	41
H445085		<20	0.08	<10	<10	9	<10	30
H445086		<20	0.20	<10	<10	209	<10	64
H445087		<20	0.16	<10	<10	139	<10	32
H445088		<20	0.20	<10	<10	178	<10	95
H445089		<20	0.12	<10	10	121	<10	37
H445090		<20	0.12	<10	<10	208	<10	31
H445091		<20	0.13	<10	<10	221	<10	30
H445092		<20	0.07	<10	<10	31	<10	29
H445093		<20	0.10	<10	<10	37	<10	35
H445094		20	0.04	<10	<10	10	<10	19
H445095		<20	0.09	<10	<10	39	<10	42
H445096		<20	0.07	<10	<10	31	<10	41
H445097		<20	0.06	<10	<10	31	<10	47
H445098		<20	0.06	<10	<10	36	<10	41
H445099		<20	0.05	<10	<10	46	<10	35
H445100		<20	0.06	<10	<10	37	<10	32
H445101		<20	0.11	<10	10	44	<10	33
H445102		<20	0.12	<10	<10	116	<10	31
H445103		<20	0.12	<10	<10	86	<10	46
H445104		<20	0.05	<10	<10	4	<10	22





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Page: 1  
Finalized Date: 12-MAR-2009  
Account: RRR

## CERTIFICATE TB09022327

Project: OFF LAKE

P.O. No.:

This report is for 118 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 3-MAR-2009.

The following have access to data associated with this certificate:

CJ BAKER  
NELSON BAKER

NELSON BAKER

CJ BAKER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
DRY-21	High Temperature Drying

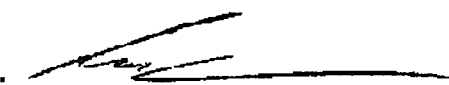
## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: RAINY RIVER RESOURCES LTD.  
ATTN: CJ BAKER  
P.O.BOX 5, 48 MARION STREET  
ECHO LAKES ESTATE  
EMO ON P0W 1E0

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

  
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A

Total # Pages: 4 (A - C)

Finalized Date: 12-MAR-2009

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Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09022327

Sample Description	Method Analyte Units LOR	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ce %	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
H445105		2.30	<0.005	<0.2	0.58	<2	<10	60	<0.5	<2	1.10	<0.5	4	8	15	0.78
H445106		2.83	<0.005	<0.2	1.92	<2	<10	50	<0.5	<2	2.06	<0.5	15	110	22	2.56
H445107		3.29	<0.005	0.3	0.93	<2	<10	20	<0.5	<2	2.29	<0.5	7	41	56	1.49
H445108		3.23	0.005	0.2	1.01	<2	<10	70	<0.5	<2	0.70	<0.5	4	9	103	1.45
H445109		1.92	0.006	<0.2	0.44	<2	<10	60	<0.5	<2	0.50	<0.5	2	7	21	0.67
H445110		3.62	0.005	0.6	0.96	<2	<10	70	<0.5	<2	0.24	<0.5	7	13	449	2.66
H445111		2.57	0.007	1.4	0.90	<2	<10	60	<0.5	<2	0.28	0.8	13	19	808	2.59
H445112		2.82	0.026	1.6	0.85	<2	<10	60	<0.5	<2	0.44	<0.5	9	13	1530	2.23
H445113		3.42	0.008	0.8	0.95	<2	<10	60	<0.5	<2	0.23	<0.5	10	15	535	2.93
H445114		3.22	0.008	0.8	1.00	<2	<10	60	<0.5	<2	0.36	<0.5	6	19	524	2.98
H445115		2.28	0.010	1.1	0.92	<2	<10	60	<0.5	<2	0.32	<0.5	7	16	779	2.57
H445116		3.14	0.009	0.9	1.03	<2	<10	60	<0.5	<2	0.31	<0.5	8	34	681	2.74
H445117		0.70	<0.005	0.2	0.31	<2	<10	10	<0.5	<2	0.26	<0.5	1	8	56	0.56
H445118		2.71	0.009	0.5	1.16	<2	<10	50	<0.5	<2	0.33	<0.5	4	14	399	2.54
H445119		3.29	0.015	1.0	1.21	<2	<10	70	<0.5	<2	0.35	<0.5	7	26	1100	2.86
H445120		0.08	3.94	0.6	1.20	3	<10	80	0.6	2	0.52	<0.5	14	40	29	4.85
H445121		3.26	0.024	1.1	0.91	<2	<10	60	<0.5	<2	0.70	<0.5	8	15	1040	1.91
H445122		2.17	0.011	0.9	1.00	<2	<10	50	<0.5	<2	0.28	<0.5	10	13	852	2.25
H445123		1.68	0.033	1.6	0.98	<2	<10	60	<0.5	<2	0.22	<0.5	13	12	1510	2.21
H445124		3.01	0.006	0.7	1.10	<2	<10	170	<0.5	<2	0.65	<0.5	9	32	394	1.78
H445125		1.22	0.010	0.8	0.86	<2	<10	60	<0.5	<2	0.62	<0.5	5	11	595	1.90
H445126		2.70	0.010	0.8	0.88	<2	<10	40	<0.5	<2	0.57	<0.5	5	14	814	2.12
H445127		2.99	0.011	1.1	0.94	<2	<10	50	<0.5	<2	0.45	<0.5	7	15	924	2.12
H445128		3.15	0.023	1.8	0.84	<2	<10	50	<0.5	<2	0.32	<0.5	7	15	1940	1.80
H445129		3.06	0.011	1.2	0.79	3	<10	40	<0.5	<2	0.53	<0.5	14	14	1220	1.78
H445130		2.91	0.014	1.8	0.80	<2	<10	30	<0.5	<2	0.71	<0.5	11	13	1650	1.98
H445131		3.12	0.010	1.3	0.87	<2	<10	40	<0.5	<2	0.44	<0.5	22	15	1340	2.40
H445132		2.87	0.023	2.7	0.97	<2	<10	30	<0.5	<2	0.64	<0.5	19	16	2880	2.50
H445133		3.23	0.021	2.4	0.74	<2	<10	30	<0.5	<2	0.65	<0.5	12	18	2400	1.65
H445134		3.03	0.026	2.3	1.07	<2	<10	70	<0.5	<2	0.47	<0.5	10	15	2670	2.29
H445135		3.19	0.016	1.5	1.26	<2	<10	50	<0.5	<2	0.39	<0.5	10	24	1680	3.13
H445136		2.47	0.022	2.3	1.02	<2	<10	80	<0.5	<2	0.41	<0.5	11	13	2520	2.47
H445137		0.79	<0.005	0.2	0.18	<2	<10	10	<0.5	<2	0.15	<0.5	1	7	45	0.31
H445138		3.01	0.010	0.9	1.03	<2	<10	100	<0.5	<2	0.40	<0.5	8	14	867	2.35
H445139		3.33	0.014	1.2	1.03	<2	<10	80	<0.5	<2	0.62	<0.5	10	19	1280	3.00
H445140		0.83	0.020	2.5	0.99	<2	<10	50	<0.5	<2	0.58	<0.5	7	15	2250	2.85
H445141		2.43	0.021	2.4	0.86	<2	<10	40	<0.5	<2	0.63	<0.5	10	14	2080	2.53
H445142		3.04	0.029	3.9	1.02	<2	<10	40	<0.5	<2	0.57	<0.5	11	15	3640	3.90
H445143		3.30	0.012	1.3	0.95	<2	<10	70	<0.5	<2	0.59	<0.5	10	17	1390	2.43
H445144		2.90	0.008	1.1	1.02	<2	<10	50	<0.5	<2	0.63	<0.5	12	15	1130	2.57



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Page: 2 - B

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Finalized Date: 12-MAR-2009

Account: RRR

Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09022327

Sample Description	Method Analyte Units LOR	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	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
H445105		<10	<1	0.27	10	0.31	184	<1	0.04	6	280	2	0.03	<2	1	58
H445106		10	<1	0.34	20	2.28	607	<1	0.05	84	1460	2	0.13	<2	2	105
H445107		10	<1	0.06	30	0.90	331	<1	0.05	33	770	3	0.19	<2	2	105
H445108		<10	<1	0.24	10	0.79	277	<1	0.04	5	380	<2	0.26	<2	1	74
H445109		<10	<1	0.16	30	0.19	141	<1	0.04	1	320	3	0.03	<2	<1	37
H445110		<10	<1	0.50	10	0.49	197	4	0.04	6	230	<2	0.68	<2	1	20
H445111		<10	<1	0.40	10	0.49	208	2	0.05	6	230	38	0.92	<2	1	14
H445112		<10	<1	0.40	10	0.50	233	25	0.04	5	250	16	0.73	<2	1	25
H445113		<10	<1	0.37	<10	0.51	229	1	0.04	5	170	17	1.12	<2	1	10
H445114		10	<1	0.37	<10	0.58	240	1	0.05	9	190	3	0.89	<2	1	10
H445115		10	<1	0.35	<10	0.52	213	6	0.08	6	180	2	0.73	<2	1	9
H445116		<10	<1	0.34	10	0.71	301	2	0.05	12	190	<2	0.91	<2	1	14
H445117		<10	<1	0.11	<10	0.13	109	6	0.05	2	40	9	0.03	<2	1	9
H445118		10	<1	0.24	10	0.86	335	4	0.04	6	220	<2	0.52	<2	1	20
H445119		<10	<1	0.44	10	0.75	255	6	0.06	7	200	<2	0.65	<2	1	13
H445120		<10	<1	0.35	10	1.07	329	2	0.47	53	790	58	3.28	2	1	106
H445121		<10	<1	0.36	<10	0.57	231	28	0.04	7	220	<2	0.63	<2	1	24
H445122		<10	<1	0.29	<10	0.68	230	6	0.04	8	210	<2	0.81	<2	1	17
H445123		<10	<1	0.37	<10	0.69	216	20	0.08	7	180	<2	0.81	<2	1	17
H445124		10	<1	0.70	20	0.82	242	4	0.08	19	730	3	0.40	<2	1	56
H445125		10	<1	0.48	<10	0.58	227	7	0.05	6	250	2	0.86	<2	1	22
H445126		<10	<1	0.26	<10	0.57	198	7	0.06	6	250	<2	0.75	<2	1	16
H445127		<10	<1	0.32	<10	0.62	193	7	0.06	6	240	<2	0.59	<2	1	12
H445128		<10	<1	0.37	10	0.62	213	13	0.06	6	220	<2	0.63	<2	1	13
H445129		<10	<1	0.27	10	0.54	206	9	0.06	9	230	3	0.75	<2	1	13
H445130		<10	<1	0.17	10	0.57	227	7	0.06	6	250	3	0.95	<2	1	12
H445131		<10	<1	0.21	<10	0.60	246	9	0.06	6	210	<2	1.22	<2	1	11
H445132		<10	<1	0.19	10	0.70	299	7	0.05	7	230	<2	1.25	<2	1	13
H445133		<10	<1	0.17	<10	0.52	251	21	0.05	4	180	<2	0.65	<2	1	15
H445134		10	<1	0.42	<10	0.83	298	38	0.06	7	230	<2	0.81	<2	1	21
H445135		10	<1	0.30	<10	0.89	337	25	0.05	9	210	<2	1.35	<2	1	17
H445136		<10	<1	0.46	<10	0.67	273	7	0.05	6	240	2	0.93	<2	2	11
H445137		<10	<1	0.11	<10	0.02	58	1	0.04	<1	10	17	0.01	<2	<1	7
H445138		<10	<1	0.63	10	0.62	226	12	0.07	6	260	2	0.51	<2	2	14
H445139		<10	<1	0.47	<10	0.74	218	10	0.07	8	290	<2	0.55	<2	2	19
H445140		<10	<1	0.37	10	0.73	196	40	0.07	22	270	<2	0.46	<2	2	14
H445141		<10	<1	0.19	<10	0.57	172	21	0.07	8	270	<2	0.61	<2	2	14
H445142		10	<1	0.24	<10	0.70	223	52	0.06	11	290	<2	1.08	<2	2	18
H445143		<10	<1	0.39	<10	0.66	153	52	0.08	7	320	<2	0.54	<2	2	14
H445144		10	<1	0.30	<10	0.71	175	33	0.07	9	310	<2	0.71	<2	2	16



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Page: 2 - C  
Total # Pages: 4 (A - C)  
Finalized Date: 12-MAR-2009  
Account: RRR

Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09022327

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Tl	Tl	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
H445105		<20	0.06	<10	<10	6	<10	26
H445106		<20	0.12	<10	<10	28	<10	124
H445107		<20	0.08	<10	<10	17	<10	55
H445108		<20	0.08	<10	<10	10	<10	49
H445109		<20	0.06	<10	<10	4	<10	15
H445110		<20	0.09	<10	<10	17	<10	38
H445111		<20	0.08	<10	<10	19	<10	155
H445112		<20	0.07	<10	<10	18	<10	83
H445113		<20	0.06	<10	<10	20	<10	92
H445114		<20	0.06	<10	<10	24	<10	52
H445115		<20	0.06	<10	<10	23	<10	43
H445116		<20	0.08	<10	<10	19	<10	48
H445117		20	0.01	<10	10	4	<10	8
H445118		<20	0.09	<10	<10	20	<10	49
H445119		<20	0.08	<10	<10	26	<10	49
H445120		<20	0.26	<10	<10	33	<10	45
H445121		<20	0.06	<10	<10	17	<10	41
H445122		<20	0.05	<10	<10	14	<10	45
H445123		<20	0.07	<10	<10	17	<10	51
H445124		<20	0.12	<10	<10	21	<10	43
H445125		<20	0.07	<10	<10	17	<10	36
H445126		<20	0.05	<10	<10	16	<10	36
H445127		<20	0.06	<10	<10	19	<10	36
H445128		<20	0.07	<10	<10	20	<10	35
H445129		<20	0.04	<10	<10	14	<10	44
H445130		<20	0.02	<10	<10	13	<10	43
H445131		<20	0.03	<10	<10	15	<10	39
H445132		<20	0.03	<10	<10	14	<10	42
H445133		<20	0.03	<10	<10	12	<10	35
H445134		<20	0.07	<10	<10	22	<10	53
H445135		<20	0.05	<10	<10	20	<10	56
H445136		<20	0.07	<10	<10	25	<10	43
H445137		<20	0.01	<10	10	1	<10	2
H445138		<20	0.10	<10	<10	27	<10	35
H445139		<20	0.07	<10	<10	32	<10	38
H445140		<20	0.06	<10	<10	32	<10	44
H445141		<20	0.04	<10	<10	23	<10	65
H445142		<20	0.06	<10	<10	36	<10	78
H445143		<20	0.06	<10	<10	29	<10	34
H445144		<20	0.06	<10	<10	28	<10	38



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Page: 3 - A

Total # Pages: 4 (A - C)

Finalized Date: 12-MAR-2009

Account: RRR

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## CERTIFICATE OF ANALYSIS TB09022327

Sample Description	Method Analyte Units LOR	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
		Recvd Wt. 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
H445145		3.00	0.008	1.5	0.85	<2	<10	50	<0.5	<2	0.57	<0.5	10	16	1240	1.86
H445146		2.80	0.014	2.2	0.87	<2	<10	40	<0.5	<2	0.67	<0.5	8	14	1800	1.70
H445147		1.85	0.024	2.8	0.99	<2	<10	50	<0.5	<2	0.79	<0.5	17	13	2620	2.42
H445148		1.20	0.054	6.0	0.85	<2	<10	40	<0.5	<2	0.76	<0.5	11	12	5400	2.11
H445149		2.73	0.008	1.1	0.84	<2	<10	20	<0.5	<2	0.70	<0.5	16	11	974	1.66
H445150		2.88	<0.005	0.3	0.73	<2	<10	20	<0.5	<2	0.70	<0.5	14	9	95	1.37
H445151		2.88	0.015	1.9	0.91	<2	<10	30	<0.5	2	0.59	<0.5	9	13	1640	1.76
H445152		2.98	0.007	1.1	0.93	<2	<10	50	<0.5	<2	0.45	<0.5	8	14	787	1.69
H445153		3.02	<0.005	0.2	0.95	<2	<10	60	<0.5	<2	0.46	<0.5	13	11	91	1.85
H445154		2.16	<0.005	0.3	1.01	<2	<10	30	<0.5	<2	0.54	<0.5	17	10	279	1.95
H445155		1.91	0.009	1.1	1.43	<2	<10	30	<0.5	<2	1.05	<0.5	28	10	801	3.87
H445156		2.54	0.015	1.5	0.86	<2	<10	20	<0.5	<2	0.62	<0.5	13	13	1320	1.99
H445157		1.44	0.091	5.9	1.05	<2	<10	20	<0.5	7	0.57	<0.5	11	13	6170	2.88
H445158		2.93	0.038	3.1	0.86	<2	<10	20	<0.5	<2	0.66	<0.5	8	12	3050	1.91
H445159		3.12	0.005	0.6	0.94	<2	<10	40	<0.5	<2	0.45	<0.5	10	13	437	1.91
H445160		1.66	0.005	0.4	0.62	2	<10	80	<0.5	<2	1.41	<0.5	8	95	23	2.30
H445161		3.17	<0.005	0.6	0.96	<2	<10	40	<0.5	<2	0.78	<0.5	16	16	463	2.41
H445162		1.91	0.028	2.1	0.84	<2	<10	50	<0.5	<2	0.59	<0.5	5	13	1850	1.71
H445163		1.75	<0.005	0.5	0.57	<2	<10	50	<0.5	<2	0.36	<0.5	3	9	241	1.00
H445164		2.36	0.009	0.9	0.84	<2	<10	40	<0.5	<2	0.48	<0.5	7	14	755	1.60
H445165		3.04	0.021	1.9	1.09	8	<10	40	<0.5	<2	0.43	<0.5	10	16	1630	2.20
H445166		3.07	0.031	1.7	0.93	<2	<10	60	<0.5	<2	0.43	<0.5	8	15	1560	2.07
H445167		2.96	0.020	1.5	0.97	<2	<10	60	<0.5	<2	0.70	<0.5	9	13	1290	2.03
H445168		3.08	0.020	1.1	0.92	<2	<10	60	<0.5	<2	0.56	<0.5	10	13	1310	2.13
H445169		3.17	0.005	1.0	0.89	<2	<10	70	<0.5	<2	0.48	<0.5	6	13	498	1.80
H445170		2.84	0.008	0.7	0.83	<2	<10	50	<0.5	<2	0.58	<0.5	6	15	805	1.76
H445171		3.03	0.009	1.0	0.77	<2	<10	50	<0.5	<2	0.66	<0.5	5	16	759	1.89
H445172		2.88	0.017	1.1	0.68	<2	<10	40	<0.5	<2	0.62	<0.5	7	14	1100	1.95
H445173		2.79	0.016	1.2	0.84	<2	<10	50	<0.5	<2	0.57	<0.5	5	15	1260	2.08
H445174		2.66	0.011	0.9	1.00	<2	<10	70	<0.5	<2	0.58	<0.5	4	14	771	1.78
H445175		1.44	0.023	1.7	1.46	<2	<10	20	<0.5	2	0.22	<0.5	100	10	678	5.19
H445176		2.04	<0.005	0.2	1.02	<2	<10	30	<0.5	<2	0.33	<0.5	4	12	172	2.24
H445177		2.32	0.006	0.4	0.83	<2	<10	50	<0.5	<2	0.46	<0.5	7	14	399	1.85
H445178		2.87	0.005	0.5	0.69	<2	<10	40	<0.5	<2	0.54	<0.5	4	14	314	1.62
H445179		3.00	<0.005	0.4	0.72	<2	<10	20	<0.5	<2	0.71	<0.5	5	13	271	1.74
H445180		3.23	<0.005	0.4	0.79	<2	<10	30	<0.5	<2	0.57	<0.5	8	13	288	1.64
H445181		3.20	<0.005	0.4	0.88	<2	<10	50	<0.5	<2	0.65	<0.5	3	14	279	1.77
H445182		2.99	0.015	1.1	0.93	<2	<10	50	<0.5	<2	0.37	<0.5	7	11	1010	1.80
H445183		3.18	0.022	1.2	0.76	<2	<10	40	<0.5	<2	0.52	<0.5	4	14	1200	1.61
H445184		2.96	0.030	1.4	0.51	<2	<10	20	<0.5	<2	0.61	<0.5	4	14	1200	1.39



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Page: 3 - B  
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## CERTIFICATE OF ANALYSIS TB09022327

Sample Description	Method Analyte Units LOR	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	
H445145		<10	<1	0.23	10	0.61	159	32	0.06	6	270	<2	0.45	<2	2	12
H445146		<10	<1	0.16	<10	0.59	177	34	0.08	7	270	<2	0.46	<2	2	14
H445147		<10	<1	0.24	<10	0.64	215	24	0.09	8	280	<2	0.93	<2	2	16
H445148		<10	<1	0.17	<10	0.56	171	9	0.07	9	280	2	0.90	<2	1	13
H445149		<10	<1	0.09	<10	0.57	238	3	0.07	6	240	<2	0.57	<2	1	13
H445150		<10	<1	0.07	<10	0.50	220	3	0.06	5	250	<2	0.43	<2	1	10
H445151		<10	<1	0.14	<10	0.63	297	34	0.06	6	220	<2	0.52	<2	1	12
H445152		<10	<1	0.27	<10	0.62	297	3	0.07	4	190	<2	0.40	<2	1	12
H445153		<10	<1	0.31	10	0.66	357	4	0.06	5	200	<2	0.58	<2	1	11
H445154		10	<1	0.16	10	0.71	311	49	0.05	4	220	<2	0.62	<2	1	12
H445155		10	<1	0.25	<10	1.03	466	25	0.06	6	250	<2	2.19	<2	1	20
H445156		10	<1	0.12	<10	0.58	208	10	0.07	5	230	<2	0.74	<2	1	13
H445157		10	<1	0.13	<10	0.74	239	1	0.06	10	180	<2	1.34	<2	1	12
H445158		<10	<1	0.12	<10	0.59	220	15	0.07	7	240	<2	0.73	<2	1	14
H445159		<10	<1	0.22	<10	0.59	217	2	0.06	5	210	<2	0.52	<2	1	14
H445160		<10	<1	0.26	90	0.58	257	1	0.11	27	2770	5	<0.01	2	3	193
H445161		10	<1	0.22	<10	0.66	267	1	0.07	7	220	<2	1.00	<2	1	20
H445162		10	<1	0.27	<10	0.57	181	6	0.08	8	230	<2	0.39	<2	1	12
H445163		<10	<1	0.34	20	0.29	162	<1	0.05	2	290	7	0.07	<2	1	23
H445164		10	<1	0.24	<10	0.59	175	18	0.07	6	270	<2	0.34	<2	2	15
H445165		<10	<1	0.20	<10	0.77	254	10	0.07	26	230	5	0.60	<2	2	14
H445166		10	<1	0.43	<10	0.62	198	5	0.06	8	250	2	0.63	<2	2	11
H445167		<10	<1	0.33	<10	0.63	207	21	0.08	6	270	2	0.66	<2	2	16
H445168		<10	<1	0.35	<10	0.62	171	22	0.07	6	260	2	0.85	<2	1	15
H445169		10	<1	0.39	<10	0.64	167	11	0.06	6	280	2	0.30	<2	1	16
H445170		<10	<1	0.31	<10	0.59	137	8	0.06	6	270	<2	0.31	<2	1	15
H445171		10	<1	0.23	<10	0.57	123	17	0.07	6	290	<2	0.15	<2	2	15
H445172		<10	<1	0.16	<10	0.51	133	19	0.06	6	280	<2	0.37	<2	1	15
H445173		10	<1	0.26	<10	0.66	168	5	0.05	6	290	<2	0.31	<2	1	15
H445174		10	<1	0.35	<10	0.70	221	5	0.06	5	240	<2	0.21	<2	2	18
H445175		10	<1	0.10	<10	0.91	298	3	0.06	10	190	<2	2.70	<2	1	20
H445176		10	<1	0.15	<10	0.68	235	1	0.04	4	210	<2	0.27	<2	1	14
H445177		<10	<1	0.24	<10	0.58	164	2	0.06	5	250	<2	0.24	<2	1	12
H445178		<10	<1	0.17	<10	0.48	146	2	0.07	4	260	<2	0.11	<2	1	13
H445179		<10	<1	0.11	10	0.50	166	2	0.07	4	260	<2	0.25	<2	1	18
H445180		10	<1	0.14	<10	0.53	154	3	0.07	5	220	<2	0.29	<2	1	14
H445181		<10	<1	0.21	<10	0.57	186	1	0.07	5	260	<2	0.14	<2	1	19
H445182		<10	<1	0.24	<10	0.64	210	6	0.07	5	180	<2	0.40	<2	1	11
H445183		<10	<1	0.17	<10	0.51	172	18	0.06	4	190	<2	0.25	<2	1	12
H445184		<10	<1	0.08	<10	0.36	114	10	0.05	4	200	<2	0.17	<2	1	13



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Page: 3 - C

Total # Pages: 4 (A - C)

Finalized Date: 12-MAR-2009

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## CERTIFICATE OF ANALYSIS TB09022327

Sample Description	Method Analyte Units LOR	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
		20	0.01	10	10	1	10	2
H445145		<20	0.04	<10	<10	25	<10	34
H445146		<20	0.04	<10	<10	21	<10	36
H445147		<20	0.05	<10	<10	23	<10	48
H445148		<20	0.03	<10	<10	20	<10	55
H445149		<20	0.02	<10	<10	13	<10	32
H445150		<20	0.02	<10	<10	10	<10	26
H445151		<20	0.03	<10	<10	18	<10	49
H445152		<20	0.05	<10	<10	17	<10	46
H445153		<20	0.04	<10	<10	19	<10	36
H445154		<20	0.04	<10	<10	16	<10	41
H445155		<20	0.04	<10	<10	19	<10	76
H445156		<20	0.02	<10	<10	16	<10	47
H445157		<20	0.02	<10	<10	27	<10	76
H445158		<20	0.02	<10	<10	15	<10	45
H445159		<20	0.04	<10	<10	16	<10	38
H445160		<20	0.20	<10	<10	58	<10	29
H445161		<20	0.04	<10	<10	19	<10	34
H445162		<20	0.05	<10	<10	20	<10	47
H445163		<20	0.08	<10	<10	11	<10	27
H445164		<20	0.07	<10	<10	23	<10	32
H445165		<20	0.05	<10	<10	23	<10	120
H445166		<20	0.07	<10	<10	25	<10	40
H445167		<20	0.06	<10	<10	22	<10	37
H445168		<20	0.05	<10	<10	21	<10	33
H445169		<20	0.07	<10	<10	25	<10	32
H445170		<20	0.05	<10	<10	22	<10	27
H445171		<20	0.03	<10	<10	26	<10	23
H445172		<20	0.03	<10	<10	23	<10	24
H445173		<20	0.04	<10	<10	28	<10	33
H445174		<20	0.06	<10	<10	26	<10	41
H445175		<20	0.05	<10	<10	20	<10	61
H445176		<20	0.04	<10	<10	23	<10	46
H445177		<20	0.05	<10	<10	23	<10	33
H445178		<20	0.04	<10	<10	20	<10	26
H445179		<20	0.03	<10	<10	18	<10	29
H445180		<20	0.03	<10	<10	18	<10	32
H445181		<20	0.04	<10	<10	23	<10	39
H445182		<20	0.04	<10	<10	17	<10	48
H445183		<20	0.03	<10	<10	18	<10	35
H445184		<20	0.01	<10	<10	15	<10	20



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Page: 4 - A

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## CERTIFICATE OF ANALYSIS TB09022327

Sample Description	Method Analyte Units LOR	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
		Recvd Wt. 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 %
H445185		3.01	0.021	1.0	0.65	<2	<10	30	<0.5	<2	0.58	<0.5	4	14	907	1.45
H445186		2.80	<0.005	0.2	0.67	<2	<10	30	<0.5	<2	0.64	<0.5	4	12	239	1.53
H445187		2.68	0.005	0.4	0.69	<2	<10	20	<0.5	<2	0.71	<0.5	3	12	227	1.53
H445188		3.01	<0.005	0.2	0.77	<2	<10	50	<0.5	<2	0.54	<0.5	3	15	92	1.82
H445189		2.86	<0.005	0.5	0.73	<2	<10	40	<0.5	<2	0.53	<0.5	3	14	180	1.58
H445190		2.80	<0.005	0.2	0.62	<2	<10	30	<0.5	<2	0.53	<0.5	3	15	85	1.20
H445191		3.36	<0.005	0.3	0.90	<2	<10	70	<0.5	<2	0.49	<0.5	6	17	137	1.73
H445192		3.05	<0.005	0.2	0.83	<2	<10	60	<0.5	<2	0.50	<0.5	5	68	123	1.39
H445193		1.97	<0.005	0.3	0.87	<2	<10	100	<0.5	<2	0.41	<0.5	6	16	248	2.26
H445194		1.98	<0.005	0.3	0.92	<2	<10	60	<0.5	<2	0.58	<0.5	5	35	67	1.75
H445195		2.37	0.012	0.8	0.85	<2	<10	60	<0.5	<2	0.34	<0.5	4	13	517	1.75
H445196		2.98	0.010	0.5	0.81	<2	<10	30	<0.5	<2	0.48	<0.5	10	16	410	1.87
H445197		3.22	0.006	0.3	0.79	<2	<10	30	<0.5	<2	0.51	<0.5	13	24	243	1.59
H445198		3.16	0.020	0.6	0.80	<2	<10	40	<0.5	<2	0.55	<0.5	2	15	374	1.37
H445199		2.11	0.008	0.7	0.76	<2	<10	30	<0.5	<2	0.66	<0.5	1	13	147	0.95
H445200		0.08	1.815	0.4	1.32	2	<10	60	0.7	<2	0.52	<0.5	17	49	25	5.10
H445201		3.07	<0.005	<0.2	0.69	4	<10	20	<0.5	<2	0.64	<0.5	2	13	25	0.88
H445202		2.99	0.006	<0.2	0.81	<2	<10	30	<0.5	<2	0.57	<0.5	2	16	133	1.13
H445203		3.09	<0.005	<0.2	0.91	<2	<10	30	<0.5	<2	0.63	<0.5	3	15	33	1.54
H445204		3.19	0.006	<0.2	1.13	<2	<10	40	<0.5	<2	0.58	<0.5	7	16	69	2.09
H445205		3.18	<0.005	<0.2	1.15	<2	<10	60	<0.5	<2	0.50	<0.5	5	14	78	1.98
H445206		3.12	<0.005	<0.2	1.02	2	<10	40	<0.5	<2	1.07	<0.5	6	12	62	1.58
H445207		3.34	0.010	0.2	1.10	<2	<10	60	<0.5	<2	0.71	<0.5	4	16	251	1.69
H445208		3.58	<0.005	<0.2	1.00	<2	<10	60	<0.5	<2	0.73	<0.5	5	25	80	2.35
H445209		3.56	0.012	<0.2	0.99	<2	<10	60	<0.5	<2	0.75	<0.5	4	18	157	1.61
H445210		3.50	0.013	<0.2	1.10	<2	<10	70	<0.5	<2	0.94	<0.5	5	25	156	2.11
H445211		3.73	<0.005	<0.2	1.03	<2	<10	20	<0.5	<2	0.92	<0.5	5	19	72	2.04
H445212		3.27	<0.005	<0.2	0.89	2	<10	30	<0.5	<2	0.88	<0.5	4	14	129	2.39
H445213		3.28	0.012	0.2	0.88	<2	<10	50	<0.5	<2	0.85	<0.5	4	14	199	2.14
H445214		3.52	0.015	0.7	1.01	2	<10	60	<0.5	<2	0.76	<0.5	4	16	369	1.94
H445215		3.48	<0.005	<0.2	1.09	2	<10	40	<0.5	<2	0.94	<0.5	4	15	110	1.56
H445216		2.11	<0.005	<0.2	0.92	<2	<10	30	<0.5	<2	0.73	<0.5	3	14	89	1.45
H445217		1.70	<0.005	<0.2	1.02	2	<10	30	<0.5	<2	0.78	<0.5	2	11	17	1.53
H445218		0.95	0.031	1.4	2.41	5	<10	170	<0.5	<2	0.55	<0.5	23	6	630	4.84
H445219		0.46	0.192	0.9	2.00	13	<10	10	<0.5	26	0.38	<0.5	152	2	706	31.6
H445220		2.15	0.027	0.9	2.17	7	<10	40	<0.5	2	0.14	<0.5	24	8	467	6.36
H445221		0.32	0.800	1.1	1.10	340	<10	<10	<0.5	32	2.18	<0.5	139	1	421	29.7
H445222		1.03	0.018	0.7	1.88	8	<10	50	<0.5	<2	0.22	<0.5	12	11	368	4.37





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Page: 4 - B

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## CERTIFICATE OF ANALYSIS TB09022327

Sample Description	Method Analyte Units LOR	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	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
H445185		<10	<1	0.11	<10	0.49	126	4	0.06	4	250	<2	0.13	<2	1	13
H445186		<10	<1	0.12	<10	0.50	147	2	0.05	4	260	2	0.17	<2	1	15
H445187		<10	<1	0.09	<10	0.50	147	1	0.07	4	270	<2	0.09	<2	1	17
H445188		<10	<1	0.18	<10	0.61	151	1	0.06	5	230	<2	0.05	<2	1	14
H445189		<10	<1	0.17	<10	0.55	139	16	0.06	3	220	<2	0.12	<2	1	14
H445190		<10	<1	0.17	<10	0.47	130	11	0.04	3	180	<2	0.09	<2	1	14
H445191		<10	<1	0.29	<10	0.68	150	2	0.06	5	240	<2	0.23	<2	1	16
H445192		<10	<1	0.24	10	0.82	147	2	0.05	22	360	<2	0.05	<2	2	14
H445193		10	<1	0.40	<10	0.65	173	1	0.07	6	290	<2	0.24	<2	2	14
H445194		10	<1	0.25	<10	0.71	177	1	0.06	16	270	<2	0.06	<2	2	17
H445195		10	<1	0.31	<10	0.62	147	26	0.05	4	220	<2	0.16	<2	2	13
H445196		<10	<1	0.17	<10	0.63	164	4	0.05	5	240	<2	0.34	<2	1	13
H445197		<10	<1	0.19	<10	0.64	170	7	0.05	6	230	2	0.19	<2	1	11
H445198		<10	<1	0.22	<10	0.61	172	4	0.04	4	240	<2	0.05	<2	1	12
H445199		<10	<1	0.17	<10	0.59	204	1	0.03	3	240	<2	0.01	<2	1	16
H445200		<10	<1	0.36	10	1.50	361	1	0.56	66	890	48	3.24	2	1	118
H445201		<10	<1	0.17	<10	0.54	235	<1	0.05	6	160	3	0.01	<2	1	12
H445202		<10	<1	0.25	<10	0.63	258	<1	0.05	4	120	2	0.10	<2	1	12
H445203		<10	<1	0.20	<10	0.66	257	<1	0.05	5	70	2	0.13	<2	1	9
H445204		<10	<1	0.30	<10	0.74	317	1	0.06	6	200	2	0.55	<2	1	13
H445205		<10	<1	0.37	<10	0.74	309	1	0.05	5	240	<2	0.34	<2	1	13
H445206		<10	<1	0.23	10	0.72	293	3	0.07	4	280	<2	0.34	<2	1	34
H445207		10	<1	0.36	10	0.83	274	1	0.07	6	340	<2	0.13	<2	2	19
H445208		<10	<1	0.27	10	0.74	208	1	0.08	9	280	2	0.13	<2	1	16
H445209		10	<1	0.29	10	0.79	178	1	0.09	8	280	<2	0.10	<2	1	22
H445210		<10	<1	0.27	10	0.87	163	<1	0.10	10	330	3	0.07	<2	1	30
H445211		<10	<1	0.10	10	0.78	187	<1	0.08	8	310	<2	0.09	<2	1	33
H445212		<10	<1	0.14	10	0.64	158	1	0.08	7	340	2	0.11	<2	1	25
H445213		<10	<1	0.27	10	0.66	171	<1	0.09	6	320	2	0.06	<2	2	15
H445214		10	<1	0.30	10	0.79	233	<1	0.07	7	320	2	0.09	<2	2	11
H445215		<10	<1	0.21	10	0.72	299	1	0.07	6	300	2	0.17	<2	1	25
H445216		<10	<1	0.17	<10	0.66	268	<1	0.05	6	220	<2	0.09	<2	1	13
H445217		10	<1	0.17	10	0.68	314	<1	0.07	5	260	2	0.03	<2	1	11
H445218		10	<1	0.66	10	1.57	565	4	0.07	5	780	<2	1.38	<2	3	21
H445219		10	<1	0.05	<10	1.25	340	<1	0.01	25	90	<2	>10.0	<2	1	11
H445220		10	<1	0.16	<10	1.34	435	5	0.03	9	310	3	2.90	<2	1	8
H445221		10	<1	0.04	<10	0.80	364	<1	0.02	8	110	<2	>10.0	<2	1	19
H445222		10	1	0.24	<10	1.32	337	2	0.05	7	250	3	1.64	<2	1	9



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Page: 4 - C  
Total # Pages: 4 (A - C)  
Finalized Date: 12-MAR-2009  
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Project: OFF LAKE

## CERTIFICATE OF ANALYSIS TB09022327

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Tl	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
H445185		<20	0.01	<10	<10	19	<10	25
H445186		<20	0.02	<10	<10	18	<10	24
H445187		<20	0.01	<10	<10	19	<10	25
H445188		<20	0.03	<10	<10	28	<10	33
H445189		<20	0.03	<10	<10	21	<10	23
H445190		<20	0.03	<10	<10	15	<10	18
H445191		<20	0.05	<10	<10	23	<10	29
H445192		<20	0.05	<10	<10	25	<10	27
H445193		<20	0.07	<10	<10	31	<10	33
H445194		<20	0.06	<10	<10	26	<10	30
H445195		<20	0.05	<10	<10	25	<10	30
H445196		<20	0.03	<10	<10	21	<10	30
H445197		<20	0.03	<10	<10	21	<10	28
H445198		<20	0.03	<10	<10	18	<10	33
H445199		<20	0.02	<10	<10	11	<10	24
H445200		<20	0.31	<10	<10	39	<10	50
H445201		<20	0.02	<10	<10	9	<10	32
H445202		<20	0.04	<10	<10	11	<10	34
H445203		<20	0.04	<10	<10	16	<10	46
H445204		<20	0.05	<10	<10	22	<10	57
H445205		<20	0.06	<10	<10	24	<10	54
H445206		<20	0.07	<10	<10	19	<10	34
H445207		<20	0.08	<10	<10	27	<10	40
H445208		<20	0.07	<10	<10	38	<10	41
H445209		<20	0.07	<10	<10	30	<10	34
H445210		<20	0.08	<10	<10	37	<10	31
H445211		<20	0.07	<10	<10	31	<10	32
H445212		<20	0.06	<10	<10	32	<10	28
H445213		<20	0.06	<10	<10	33	<10	31
H445214		<20	0.06	<10	<10	34	<10	44
H445215		<20	0.06	<10	<10	24	<10	38
H445216		<20	0.05	<10	<10	18	<10	37
H445217		<20	0.06	<10	<10	16	<10	42
H445218		<20	0.12	<10	<10	71	<10	99
H445219		<20	0.02	<10	<10	17	<10	86
H445220		<20	0.03	<10	<10	19	<10	102
H445221		<20	0.01	<10	<10	15	<10	91
H445222		<20	0.05	<10	<10	29	<10	74

**APPENDIX D**

**ALS CHEMEX Sample Preparation and Analytical Procedures**

## **ALS Chemex Laboratory**

### **Procedures for Gold Analysis and Trace Level Geochemistry**

#### **Sample Preparation (Rock or Drill Core Samples):**

1. At first, samples are sorted and laid out in alphanumeric order. Sometimes they might be divided into separate batches for separate types of analyses.
2. Then the samples are crushed. There are two stages of crushing. The first stage of crushing is performed by a primary jaw crusher. After this stage, a sample will have been crushed down to an average size of 1cm. The second stage of crushing is performed by either a roll crusher or a "Rhino" jaw crusher. Lately, we've just been using the Rhino, here in Thunder Bay. After the sample passes through the Rhino crusher its material will have been crushed down to about 2mm (greater than 60% passes through a -10mesh/2mm sieve).
3. After the sample is crushed, it is passed through a riffle splitter. This evenly divides the sample in half. Each split is a homogeneous representation of the full sample. The samples are split repeatedly until 200 to 250 grams of material is left. This is sent to our Toronto lab for further prep. The remainder of the crushed material is stored as **reject** here in Thunder Bay.
4. The last stage of sample preparation is pulverization. This is done with a ring mill. The crushed 250 gram split of the sample is put into the ring mill for a set time. After this stage, the sample material will have been pulverized so that greater than 95% of the material passes through a -150 mesh/100 micron sieve.

#### **Fire Assay (for Gold Analysis):**

1. After sample preparation, the sample "**pulps**" are homogeneously divided into 10 gram (half assay ton) or 30 gram (one assay ton) are poured into ceramic pots and mixed thoroughly with a flux. The flux is a material which contains some metals, such as lead, and it is used to separate any gold in the sample.
2. Silver nitrate is also added to this mixture. The ceramic pots are placed in a furnace at 1250deg Fahrenheit for 45 minutes. Because the sample pulp material is so fine, it is possible to actually melt or fuse in this furnace. Coarse material would not properly fuse, resulting in an inaccurate analysis. In the furnace, the lead from the flux attracts gold, etc from the sample pulp, and consequently settles all together to the bottom of the pot.
3. Once the pots come out of the furnace, samples are poured into molds. The sample now appears as a glass, with a metal button at the bottom (1inch). The glass is knocked off, and then the metal button is put back into the furnace so the lead from the flux can burn or oxidize away.
4. Finally, a bead (1-2mm) is all that is left of the sample. This bead has gold and silver in it. Some or all of the silver will be from the silver nitrate solution added to the mixture at the beginning. It is important to note that different fluxes may be used for the fusion process according to the type of sample (e.g. high sulphides, soils, etc.).

### **Atomic Absorption Spectrophotometry (Gold and Base Metal Analysis)**

1. For gold analysis, the bead resulting from the fire assay procedure above is put into a nitric acid solution in a test tube. Then it is put into a hot water bath.
2. Hydrochloric acid is also added. This is called an Aqua-Regia digestion. Silver precipitates out of solution in the form of silver nitrate and silver chloride, leaving gold in solution.
3. For trace level analysis of base metals, a portion of the sample pulp itself (i.e. not a bead) is digested by the same kind of acids. The metal ions from the sample will be in solution.
4. These solutions are diluted and taken to the AAS. There are two separate spectrometers for gold and base metals. The solution is sucked up into a flame through a plastic tube. A light beam (specifically for gold analysis) passes through the flame and spectrographic readings (light wavelengths) are taken. These are matched against a calibration curve. Readings will vary according to the gold (or base metal) concentration of each sample. A computer does all the calculations and gives a direct number in ppb for gold and ppm for base metals.

Submitted by Chemex Lab Manager, 26 March, 2009.

**Appendix E**  
**Cunningham Patent Diamond Drilling Expenditures**

## CUNNINGHAM PATENT 2009 - Diamond Drilling Expenditure Details

<i>Diamond Drilling Costs: Bradley Bros Diamond Drilling</i>	\$71,315.60
<i>Mobilization Richardson to Off Lake: McQuaker Enterprises</i>	\$2,100.00
<i>Sample Analysis: ALS Chemex, Thunder Bay</i>	\$8,556.21
<i>GIS: Zone14 GeoInfo Solutions</i>	\$1,099.61
<i>Project Management Fees - CjBaker (5days)</i>	\$3,000
<i>Drill Core Handling: B. Burnell (5days)</i>	\$1,250.00
<i>Drill Core Cutting: B. Burnell (5days)</i>	\$1,250.00
<i>Truck Rental &amp; Gas: Enterprise Rent a Car (5 days)</i>	\$650.23
<i>Report Writing &amp; Copying: Cj Baker (8days)</i>	\$6,400.00
<i>Accommodation and Meals: 5 days</i>	\$750.00
<i>Field Consummables: saw blades, pray paint, flagging tape, etc.</i>	\$559.65
<b>Total Expenditures:</b>	<b><u>\$ 96,931.30</u></b>