

# Rio Algom Mining LLC

April 7, 2009

Certified Mail  
Return Receipt (7008 0150 0002 0421 7414)

Mr. Jerry Schoeppner  
Groundwater Quality Section  
New Mexico Environment Department  
P.O. Box 26110  
Santa Fe, NM 87502

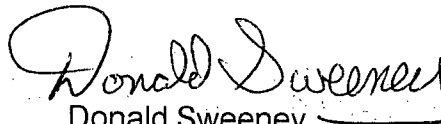
Re: **Discharge Plan - 71**  
**Analytical Results – 1<sup>st</sup> Quarter 2009**

Dear Mr. Schoeppner,

Please find attached the 1<sup>st</sup> quarter groundwater monitoring report for the Section 4 lined evaporation ponds at the Ambrosia Lake mill facility for the above referenced discharge permit. This report includes the quarterly reporting requirements as per DP-71.

If you have any questions or need additional information, please call me at 505-287-8851.

Regards,



Donald Sweeney  
Environmental Department Supervisor  
Radiation Safety Officer

Attachment: As stated

xc: NRC (Mr. Tom McLaughlin)  
NRC (document control)  
file

RIO ALGOM MINING LLC  
AMBROSIA LAKE  
FACILITY

Discharge Permit  
DP-71

1st Quarter 2009

April 7, 2009

## Discharge Permit DP-71

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### Summary of Activities

This report presents the results of the monitoring and sampling requirements associated with discharge permit DP-71 for the period encompassing the 1<sup>st</sup> quarter of 2009. DP-71 permit renewal was approved on December 1, 2003 and monitoring requirements were expanded from previous monitoring commitments listed in the permit. This has resulted in acquiring data that was not obtained in past monitoring programs.

Activities associated with the Section 4 lined evaporation ponds consisted of continued transporting of material to Pond 2 for final disposal. Hauling of sediments was initiated in December 2005 following construction of a highway overpass. As of November 30, 2007, 100% of the estimated pond sediments have been relocated to the disposal cell at the main mill facility. There were no spills or related problems with the lined ponds during the reporting period.

All wells associated with the permit were dry or contained insufficient water for sample collection except for two wells. These wells were MW-22 and MW-32. Laboratory/analytical results for the quarterly sample events were provided by ACZ Laboratories. A table summarizing the data is attached and copies of the laboratory reports are included with this submittal.

Time versus concentration plots for constituents chloride, sulfate, TDS, and hydrographs for MW-22, MW-26, and MW-32 are attached. Since all other wells continue to be dry, Rio Algom wishes to incorporate the hydrographs for the other wells associated with DP-71 that were included within the April 3, 2006 submittal.

Due to the lack of any water in the alluvium in the Section 4 Pond area, development of a potentiometric map for the alluvium was not undertaken. Since mine dewatering from mines northeast of the Section 4 Ponds ceased in 1985, the alluvium in the vicinity of the Section 4 Ponds has drained, which is reflected in the historical water level data obtained from the monitoring wells associated with the Section 4 Ponds.

Analytical Data

DP-71

RIO ALGOM MINING LLC  
DISCHARGE PERMIT - DP-71  
MONITORING RESULTS - 1st QUARTER 2009

Date	Location	Depth to Water (ft)	Total Depth (ft)	WELL STATUS	pH (s.u.)	Temp. ( C )	Spec. Cond. (uS)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Nitrate (mg/L)	Arsenic (mg/L)	Selenium (mg/L)	Uranium (mg/L)
2/9/09	MW-12		13.00	NS										
2/9/09	MW-13		29.29	NS										
2/9/09	MW-22	34.74	36.80		7.16	12.7	5400	120	2500	4940	50.7	0.0107	0.288	0.0321
2/9/09	MW-23		41.67	NS										
2/9/09	MW-24		50.10	NS										
2/9/09	MW-25		29.60	NS										
2/9/09	MW-26		35.23	NS										
2/9/09	MW-27		27.88	NS										
2/9/09	MW-28		32.46	NS										
2/9/09	MW-29		29.29	NS										
2/9/09	MW-30		40.99	NS										
2/9/09	MW-31		50.48	NS										
2/9/09	MW-32	68.05	71.60		7.08	12.1	5270	120	2500	4940	48	0.0084	0.188	0.0691
2/9/09	MW-33		59.29	NS										

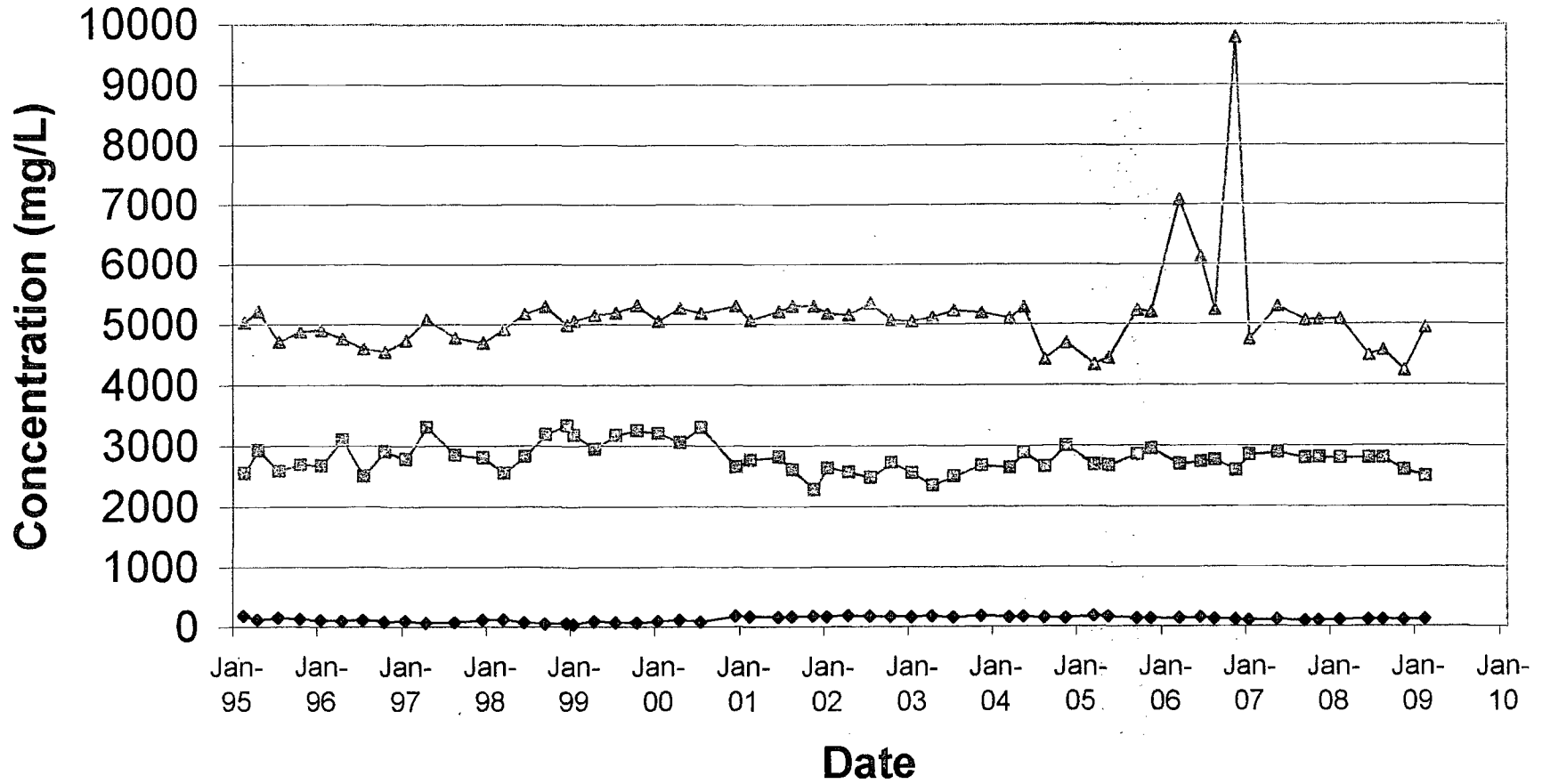
Notes

- 1 - Well status listed as "NS" indicates the well was either dry or contained insufficient water for sample collection.
- 2 - Monitor wells MW-1 through MW-11, MW-14 through MW-21 plugged and abandoned for the lined pond relocation project.

Time versus Concentration Plots

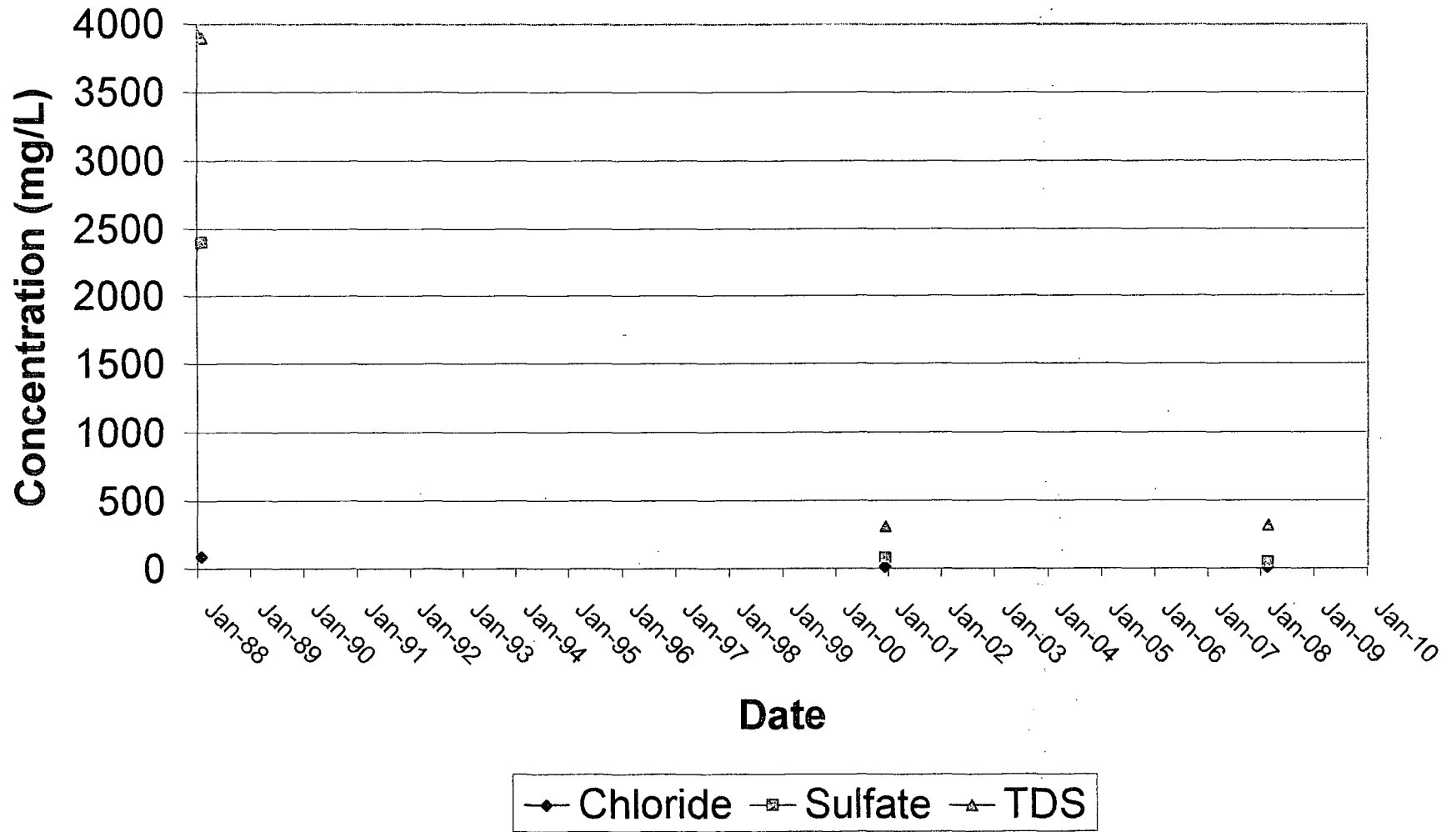
MW-22, MW-26, and MW-32

# MW-22 Time Versus Concentration



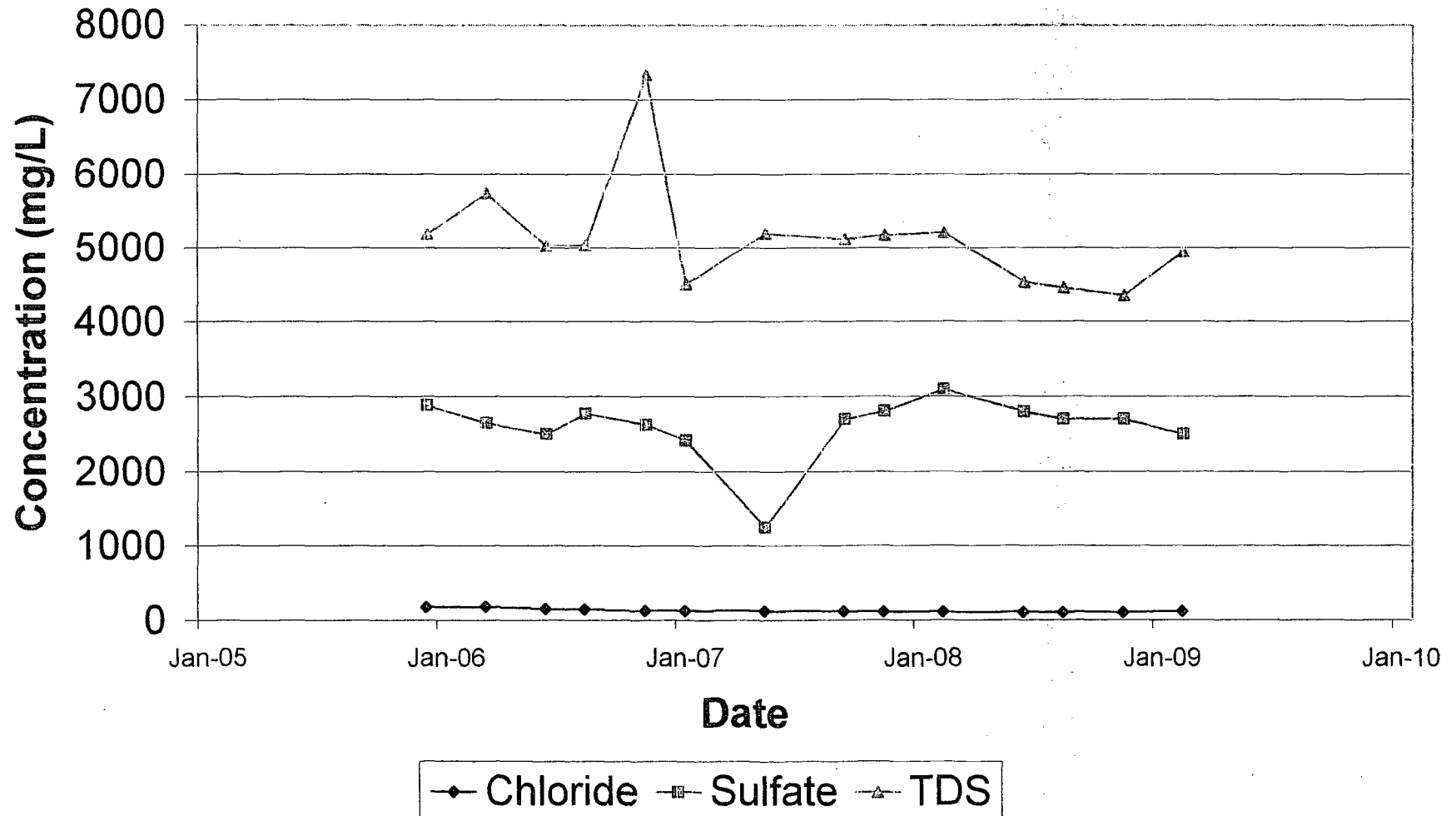
◆ Chloride    □ Sulfate    ▲ TDS

**MW-26**  
**Time Versus Concentration**





# MW-32 Time Versus Concentration



## Hydrographs

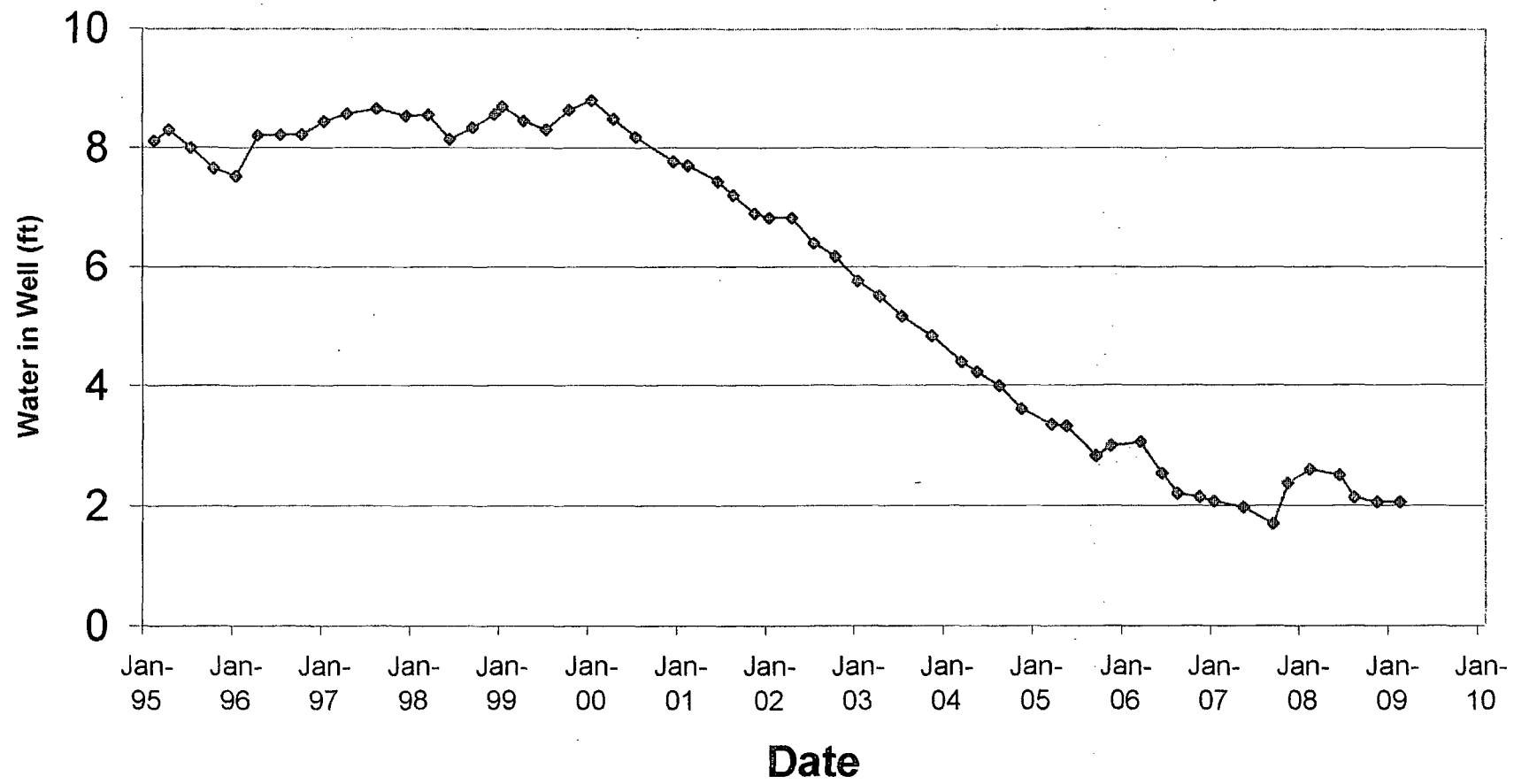
### DP-71 Well Network

#### MW-22, MW-26, and MW-32

Since all other wells continue to be dry, Rio Algom wishes to incorporate the hydrographs for the other wells associated with DP-71 that were included within the April 3, 2006 submittal as part of this submittal.

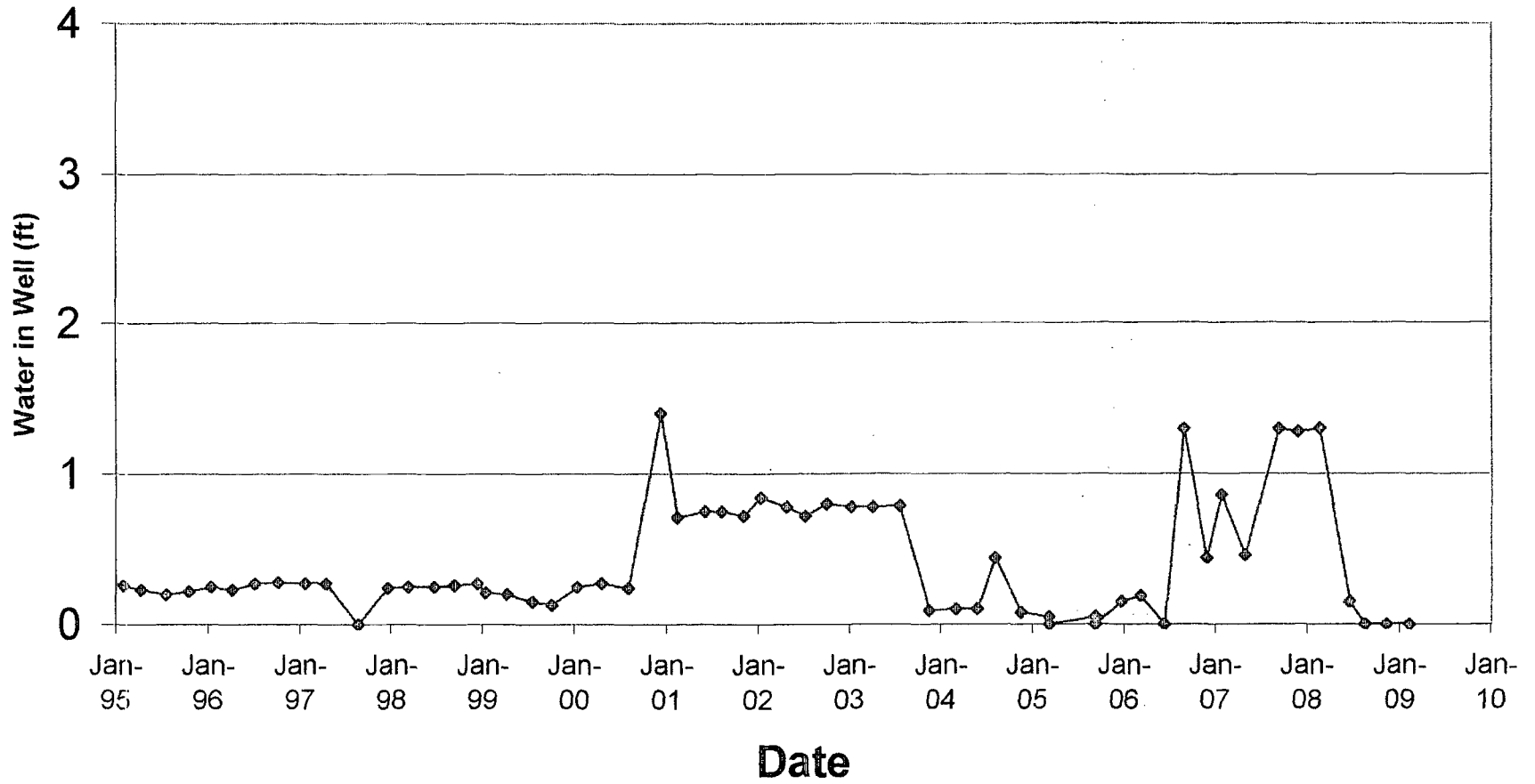
# MW-22

## Amount of Water in Well



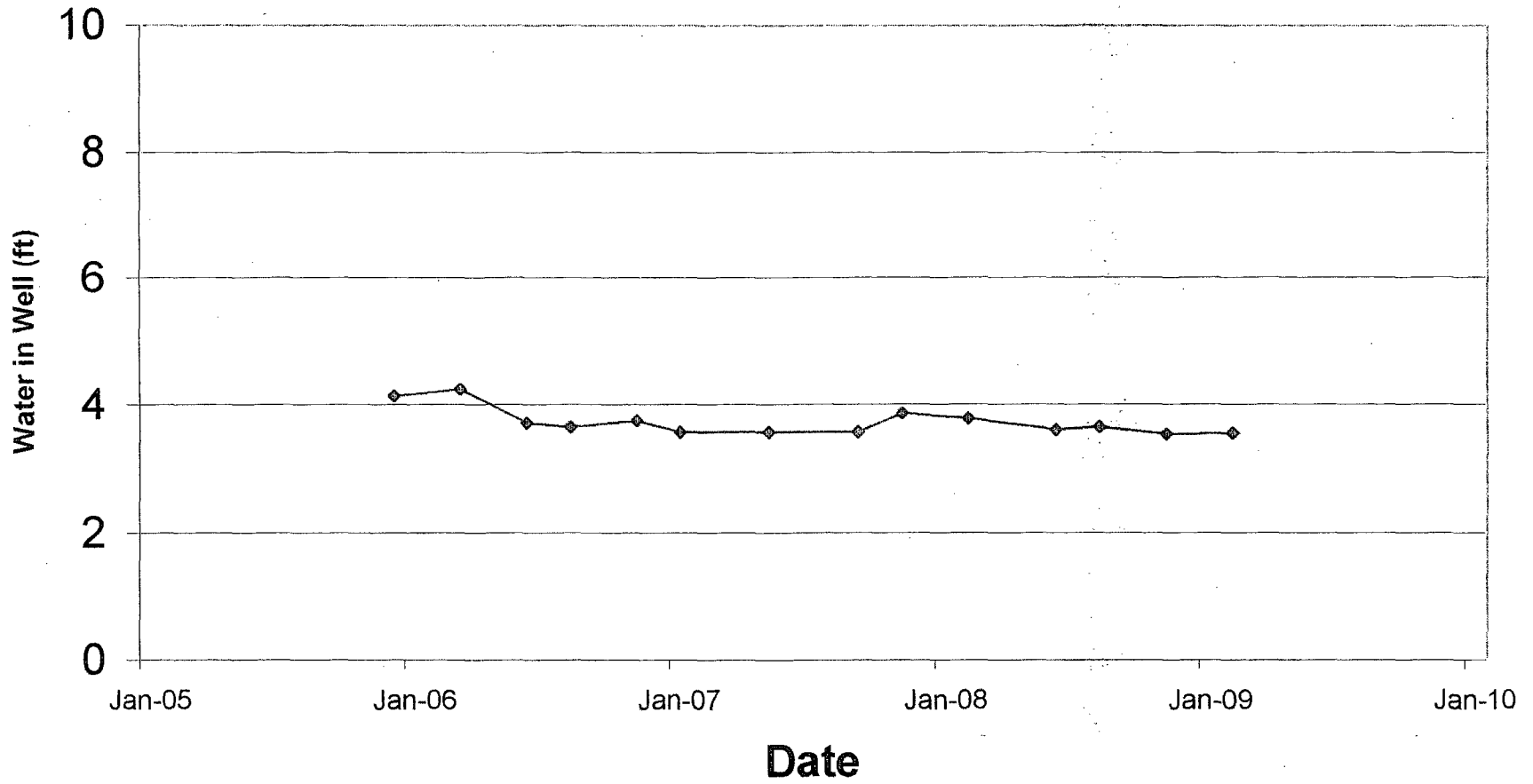
—◇— Water in Well

# MW-26 Amount of Water in Well



—◆— Water in Well

**MW-32**  
**Amount of Water in Well**



—◆— Water in Well

Laboratory Reports

DP-71



February 25, 2009

Report to:  
Don Sweeney  
Rio Algom Mining Company  
P.O. Box 218  
Grants, NM 87020

Bill to:  
Accounts Payable  
Rio Algom Mining Company  
P.O. Box 218  
Grants, NM 87020

Project ID: 57867  
ACZ Project ID: L74397

Don Sweeney:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 12, 2009. This project has been assigned to ACZ's project number, L74397. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L74397. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

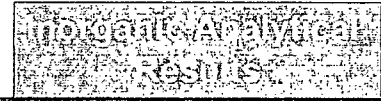
All samples and sub-samples associated with this project will be disposed of after March 25, 2009. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

A handwritten signature in black ink that reads "S. Habermehl".

Scott Habermehl has reviewed  
and approved this report.





**Rio Algom Mining Company**

Project ID: 57867  
 Sample ID: MW-22

ACZ Sample ID: **L74397-01**  
 Date Sampled: 02/09/09 12:52  
 Date Received: 02/12/09  
 Sample Matrix: Ground Water

Metals Analysis

Parameter	Method	Concentration	Units	LOD	LOQ	Analysis Date	Lab
Arsenic, dissolved	M200.8 ICP-MS	0.0107	mg/L	0.0005	0.002	02/17/09 5:34	msh
Selenium, dissolved	M200.8 ICP-MS	0.2880	mg/L	0.0001	0.0005	02/17/09 5:34	msh
Uranium, dissolved	M200.8 ICP-MS	0.0321	mg/L	0.0001	0.0005	02/17/09 5:34	msh

Wet Chemistry

Parameter	Method	Concentration	Units	LOD	LOQ	Analysis Date	Lab
Chloride	SM4500Cl-E	120	mg/L	*	10 50	02/20/09 12:32	aml
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	50.7	mg/L		0.4 2	02/23/09 16:21	neb
Residue, Filterable (TDS) @180C	SM2540C	4940	mg/L	*	10 20	02/13/09 15:20	kah
Sulfate	375.4 - Turbidimetric	2500	mg/L	*	100 500	02/20/09 16:19	aml



**Rio Algom Mining Company**Project ID: 57867  
Sample ID: MW-32ACZ Sample ID: **L74397-02**  
Date Sampled: 02/09/09 10:46  
Date Received: 02/12/09  
Sample Matrix: Ground Water

## Metals Analysis

Parameter	Method	Result	Unit	Min	Max	Date/Time	Lab
Arsenic, dissolved	M200.8 ICP-MS	0.0084	mg/L	0.0005	0.002	02/17/09 5:40	msh
Selenium, dissolved	M200.8 ICP-MS	0.1880	mg/L	0.0001	0.0005	02/17/09 5:40	msh
Uranium, dissolved	M200.8 ICP-MS	0.0691	mg/L	0.0001	0.0005	02/17/09 5:40	msh

## Wet Chemistry

Parameter	Method	Result	Unit	Min	Max	Date/Time	Lab	
Chloride	SM4500Cl-E	120	mg/L	*	10	50	02/20/09 12:32	aml
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	48.0	mg/L		0.4	2	02/23/09 16:22	neb
Residue, Filterable (TDS) @180C	SM2540C	4940	mg/L	*	10	20	02/13/09 15:21	kah
Sulfate	375.4 - Turbidimetric	2500	mg/L	*	100	500	02/20/09 16:19	aml



QC REAGENTS/STANDARDS

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC SAMPLES

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC SAMPLE PREPARATION

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

QC QUALIFIERS (PQL)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

QC METHODS

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

QC NOTES

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>



Rio Algom Mining Company

ACZ Project ID: L74397

Project ID: 57867

**Arsenic, dissolved**

M200.8 ICP-MS

ACZ ID	Type	Analyte	EQM/SGM	Conc	Sample	RF	Unit	Res	Lower	Upper	RPD	Limit	Cont
<b>WG259822</b>													
WG259822ICV	ICV	02/17/09 3:53	MS081230-2	.05		.05337	mg/L	106.7	90	110			
WG259822ICB	ICB	02/17/09 3:59				U	mg/L		-0.0011	0.0011			
WG259822LFB	LFB	02/17/09 4:11	MS090130-2	.05005		.04856	mg/L	97	85	115			
L74387-02AS	AS	02/17/09 4:28	MS090130-2	.5005	U	.4903	mg/L	98	70	130			
L74387-02ASD	ASD	02/17/09 4:34	MS090130-2	.5005	U	.4862	mg/L	97.1	70	130	0.84	20	
L74397-02AS	AS	02/17/09 5:46	MS090130-2	.05005	.0084	.05612	mg/L	95.3	70	130			
L74397-02ASD	ASD	02/17/09 5:52	MS090130-2	.05005	.0084	.0565	mg/L	96.1	70	130	0.67	20	

**Chloride**

SM4500Cl-E

ACZ ID	Type	Analyte	EQM/SGM	Conc	Sample	RF	Unit	Res	Lower	Upper	RPD	Limit	Cont
<b>WG260018</b>													
WG260018ICB	ICB	02/20/09 10:42				U	mg/L		-3	3			
WG260018ICV	ICV	02/20/09 10:42	WI090121-2	54.835		58.6	mg/L	106.9	90	110			
WG260018LFB1	LFB	02/20/09 12:15	WI080818-2	30		31.6	mg/L	105.3	90	110			
L74389-06AS	AS	02/20/09 12:17	WI080818-2	30	5	40.2	mg/L	117.3	90	110			M1
L74389-07DUP	DUP	02/20/09 12:17			5	5	mg/L				0	20	RA
WG260018LFB2	LFB	02/20/09 12:19	WI080818-2	30		32.7	mg/L	109	90	110			

**Nitrate/Nitrite as N**

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyte	EQM/SGM	Conc	Sample	RF	Unit	Res	Lower	Upper	RPD	Limit	Cont
<b>WG260081</b>													
WG260081ICV	ICV	02/23/09 15:08	WI081217-4	2.416		2.324	mg/L	96.2	90	110			
WG260081ICB	ICB	02/23/09 15:09				U	mg/L		-0.06	0.06			
WG260081LFB	LFB	02/23/09 15:13	WI090218-6	2		2.058	mg/L	102.9	90	110			
L74387-03AS	AS	02/23/09 15:35	WI090218-6	200	U	192	mg/L	96	90	110			
L74388-01DUP	DUP	02/23/09 15:38			.72	.716	mg/L				0.6	20	

**Residue, Filterable (TDS) @180C**

SM2540C

ACZ ID	Type	Analyte	EQM/SGM	Conc	Sample	RF	Unit	Res	Lower	Upper	RPD	Limit	Cont
<b>WG259771</b>													
WG259771PBW	PBW	02/13/09 15:10				U	mg/L		-20	20			
WG259771LCSW	LCSW	02/13/09 15:10	PCN31035	260		268	mg/L	103.1	80	120			
L74415-05DUP	DUP	02/13/09 15:24			18600	18528	mg/L				0.4	20	

**Selenium, dissolved**

M200.8 ICP-MS

ACZ ID	Type	Analyte	EQM/SGM	Conc	Sample	RF	Unit	Res	Lower	Upper	RPD	Limit	Cont
<b>WG259822</b>													
WG259822ICV	ICV	02/17/09 3:53	MS081230-2	.05		.0523	mg/L	104.6	90	110			
WG259822ICB	ICB	02/17/09 3:59				U	mg/L		-0.00022	0.00022			
WG259822LFB	LFB	02/17/09 4:11	MS090130-2	.05		.04771	mg/L	95.4	85	115			
L74387-02AS	AS	02/17/09 4:28	MS090130-2	.5	.07	.5762	mg/L	101.2	70	130			
L74387-02ASD	ASD	02/17/09 4:34	MS090130-2	.5	.07	.5893	mg/L	103.9	70	130	2.25	20	
L74397-02AS	AS	02/17/09 5:46	MS090130-2	.05	.188	.2375	mg/L	99	70	130			
L74397-02ASD	ASD	02/17/09 5:52	MS090130-2	.05	.188	.2341	mg/L	92.2	70	130	1.44	20	



**Rio Algom Mining Company**  
Project ID: 57867

ACZ Project ID: **L74397**

**Sulfate** 375.4 - Turbidimetric

**WG260043**

WG260043ICB	ICB	02/20/09 13:07			U	mg/L		-3	3		
WG260043ICV	ICV	02/20/09 13:07	WI090214-1	20		19.2	mg/L	96	90	110	
WG260043LFB	LFB	02/20/09 15:43	WI081015-3	10		9.4	mg/L	94	90	110	
L74316-01DUP	DUP	02/20/09 15:43			U	U	mg/L				0 20 RA
L74389-02AS	AS	02/20/09 15:49	SO4TURB5	10	34	46.1	mg/L	121	90	110	
L74407-01AS	AS	02/20/09 15:52	SO4TURB5	10	117	107.1	mg/L	-99	90	110	
L74397-02DUP	DUP	02/20/09 16:19			2500	2570	mg/L				2.8 20

**Uranium, dissolved** M200.8 ICP-MS

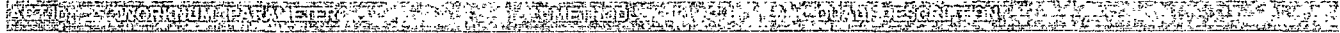
**WG259822**

WG259822ICV	ICV	02/17/09 3:53	MS081230-2	.05		.05198	mg/L	104	90	110	
WG259822ICB	ICB	02/17/09 3:59				U	mg/L		-0.00022	0.00022	
WG259822LFB	LFB	02/17/09 4:11	MS090130-2	.05		.04893	mg/L	97.9	85	115	
L74387-02AS	AS	02/17/09 4:28	MS090130-2	.5	1.85	2.355	mg/L	101	70	130	
L74387-02ASD	ASD	02/17/09 4:34	MS090130-2	.5	1.85	2.364	mg/L	102.8	70	130	0.38 20
L74397-02AS	AS	02/17/09 5:46	MS090130-2	.05	.0691	.1173	mg/L	96.4	70	130	
L74397-02ASD	ASD	02/17/09 5:52	MS090130-2	.05	.0691	.1164	mg/L	94.6	70	130	0.77 20



Rio Algom Mining Company

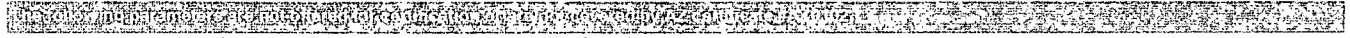
ACZ Project ID: L74397



L74397-01	WG260018	Chloride	SM4500CI-E	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500CI-E	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG259771	Residue, Filterable (TDS) @180C	SM2540C	ZO	Concentration is based on a final residue greater than 200 mg.
	WG260043	Sulfate	375.4 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			375.4 - Turbidimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L74397-02	WG260018	Chloride	SM4500CI-E	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500CI-E	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG259771	Residue, Filterable (TDS) @180C	SM2540C	ZO	Concentration is based on a final residue greater than 200 mg.
	WG260043	Sulfate	375.4 - Turbidimetric	M4	The spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The recovery of the associated control sample (LCS or LFB) was acceptable.



Wet Chemistry



Sulfate

375.4 - Turbidimetric



**Rio Algom Mining Company**  
 57867

ACZ Project ID: L74397  
 Date Received: 2/12/2009  
 Received By:  
 Date Printed: 2/12/2009

**Receipt**

- 1) Does this project require special handling procedures such as CLP protocol?
- 2) Are the custody seals on the cooler intact?
- 3) Are the custody seals on the sample containers intact?
- 4) Is there a Chain of Custody or other directive shipping papers present?
- 5) Is the Chain of Custody complete?
- 6) Is the Chain of Custody in agreement with the samples received?
- 7) Is there enough sample for all requested analyses?
- 8) Are all samples within holding times for requested analyses?
- 9) Were all sample containers received intact?
- 10) Are the temperature blanks present?
- 11) Is the trip blank for Cyanide present?
- 12) Is the trip blank for VOA present?
- 13) Are samples requiring no headspace, headspace free?
- 14) Do the samples that require a Foreign Soils Permit have one?

YES	NO	NA
		X
X		
		X
X		
X		
X		
X		
X		
		X
		X
		X
		X
		X

**Exceptions: If you find a problem, you can file a report and a sample code.**

N/A

**Comments**

N/A

**Shipping container**

Cooler Id	Temp (°C)	Rad (µR/hr)
NA7884	5.7	14

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

**Note**



**Rio Algom Mining Company**  
 57867

ACZ Project ID: L74397  
 Date Received: 2/12/2009  
 Received By:

Sample ID: L74397-01

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L74397-01	MW-22		Y		Y							
L74397-02	MW-32		Y		Y							

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

\* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: \_\_\_\_\_



# ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L74397

## CHAIN of CUSTODY

**Report to:**

Name: DON SWEENEY  
 Company: RIO ALGOM MINING LLC  
 E-mail:

Address: P.O. BOX 218  
GRANTS, N.M. 87020  
 Telephone: (505) 287-8851

**Copy of Report to:**

Name:  
 Company:

E-mail:  
 Telephone:

**Invoice to:**

Name:  
 Company:  
 E-mail:

Address:  
 Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES  NO   
 If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

**PROJECT INFORMATION**

ANALYSES REQUESTED (attach list or use quote number)

Quote #: \_\_\_\_\_  
 Project/PO #: 57867  
 Reporting state for compliance testing: \_\_\_\_\_  
 Sampler's Name: Harold Slim  
 Are any samples NRC licensable material?

SAMPLE IDENTIFICATION	DATE-TIME	Matrix	# of Containers							
MW-22	02/09/09: 1252	GW	3	X						
MW-32	02/09/09: 1046	GW	3	X						

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

**REMARKS**

RAM COC# 09-16  
 \* SEE ATTACHED SHEET.

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE-TIME	RECEIVED BY:	DATE-TIME
<u>Harold Slim</u>	<u>09/10/09: 0830</u>	<u>NVC</u>	<u>2-12-09 12:01</u>

**RIO ALGOM MINING LLC - PROJECT CODES**

<b>ACL-ALL</b>	<b>ACL-TRB</b>	<b>ACL-TRA</b>	<b>ACL-KD</b>	<b>DP-71-Q</b>	<b>SEC 4 PONDS<sup>see map</sup></b>
50/year	30/year	15/year	35/year	10/year	20/year
Chloride	Chloride	Chloride	Chloride	Chloride	Chloride
Sulfate	Sulfate	Sulfate	Sulfate	Sulfate	Sulfate
TDS	TDS	TDS	TDS	TDS	TDS
Nitrate + Nitrite	Nitrate + Nitrite	Nitrate + Nitrite	Nitrate + Nitrite	Nitrate + Nitrite	Nitrate + Nitrite
<i>Molybdenum</i>	Cyanide	Cyanide	<i>Antimony</i>	<i>Arsenic</i>	Arsenic
<i>Nickel</i>	<i>Molybdenum</i>	<i>Molybdenum</i>	<i>Arsenic</i>	<i>Selenium</i>	Selenium
<i>Selenium</i>	<i>Nickel</i>	<i>Nickel</i>	<i>Beryllium</i>	<i>Uranium</i>	Uranium
<i>Gross Alpha</i>	<i>Selenium</i>	<i>Selenium</i>	<i>Cadmium</i>		Carbonate (CO <sub>3</sub> )
<i>Radium-226</i>	<i>Gross Alpha</i>	<i>Gross Alpha</i>	<i>Cyanide</i>		Bicarbonate (HCO <sub>3</sub> )
<i>Radium-228</i>	<i>Radium-226</i>	<i>Radium-226</i>	<i>Lead</i>		Calcium
<i>Thorium-230</i>	<i>Radium-228</i>	<i>Radium-228</i>	<i>Molybdenum</i>		Potassium
<i>Lead-210</i>	<i>Thorium-230</i>	<i>Thorium-230</i>	<i>Nickel</i>		Magnesium
<i>Uranium</i>	<i>Lead-210</i>	<i>Lead-210</i>	<i>Selenium</i>		Sodium
	<i>Uranium</i>	<i>Uranium</i>	<i>Gross Alpha</i>		Lead
			<i>Radium-226</i>		Nickel
			<i>Radium-228</i>		Silver
			<i>Thorium-230</i>		Iron
			<i>Lead-210</i>		Molybdenum
			<i>Uranium</i>		Zinc
					Manganese
					Copper
					Cobalt
					Chromium
					Calcium
					Aluminum
					Fluoride
					Radium-226
					Radium-228
					Total Kjeldahl nitrogen