ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487(800) 334-5493

Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: UGW-623103-051407

ACZ Sample ID: ***L62584-14***
Date Sampled: *05/14/07 15:05*
Date Received: *05/15/07*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	28.4			mg/L	0.5	3	05/19/07 2:39	nps

Arizona license number: AZ0102

ACZ Laboratories, Inc.
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Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: FGW-623104-051407

ACZ Sample ID: ***L62584-15***
Date Sampled: *05/14/07 15:40*
Date Received: *05/15/07*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	36.6			mg/L	0.5	3	05/19/07 2:57	nps

Arizona license number: AZ0102

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: UGW-623104-051407

ACZ Sample ID: ***L62584-16***
Date Sampled: *05/14/07 15:40*
Date Received: *05/15/07*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	36.7			mg/L	0.5	3	05/19/07 3:15	nps

Arizona license number: AZ0102

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: TB051407A

ACZ Sample ID: ***L62584-17***
Date Sampled: *05/14/07 10:00*
Date Received: *05/15/07*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography		U		mg/L	0.5	3	05/19/07 3:33	nps

Arizona license number: AZ0102

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: EQ051407A

ACZ Sample ID: ***L62584-18***
Date Sampled: *05/14/07 15:20*
Date Received: *05/15/07*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	U			mg/L	0.5	3	05/19/07 3:51	nps

Arizona license number: AZ0102

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487(800) 334-5493

Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: DUP051407A

ACZ Sample ID: ***L62584-19***
Date Sampled: *05/14/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XØ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	36.8			mg/L	0.5	3	05/19/07 4:10	nps

Arizona license number: AZ0102

ACZ Laboratories, Inc.
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Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: DUP051407B

ACZ Sample ID: ***L62584-20***
Date Sampled: *05/14/07 00:00*
Date Received: *05/15/07*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	36.6			mg/L	0.5	3	05/19/07 4:28	nps

Arizona license number: AZ0102

Report Header Explanations

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 Sample Types

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 Calivation 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 Type Explanations

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.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(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.

Comments

(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.

Phelps Dodge Sierrita
Project ID: OJ03Z5

ACZ Project ID: ***L62584***

Sulfate 300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PDN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG223789													
WG223789ICV	ICV	04/24/07 13:03	IC070405-1	50.15		52.3	mg/L	104.3	90	110			
WG223789ICB	ICB	04/24/07 13:21				U	mg/L		-1.5	1.5			
WG223789ICV1	ICV	04/27/07 16:10	IC070405-1	50.15		52.21	mg/L	104.1	90	110			
WG223789ICB1	ICB	04/27/07 16:28				U	mg/L		-1.5	1.5			
WG224985													
WG224985ICV	ICV	04/24/07 13:03	IC070405-1	50.15		52.3	mg/L	104.3	90	110			
WG224985ICB	ICB	04/24/07 13:21				U	mg/L		-1.5	1.5			
WG224985ICV1	ICV	05/18/07 14:53	IC070507-1	50.15		51.64	mg/L	103	90	110			
WG224985ICB1	ICB	05/18/07 15:11				U	mg/L		-1.5	1.5			
WG224985LFB1	LFB	05/18/07 15:29	IC070205-3	30		31.37	mg/L	104.6	90	110			
L62584-01DUP	DUP	05/18/07 20:19			68.7	68.76	mg/L				0.1	20	
L62584-02AS	AS	05/18/07 20:55	IC070205-3	30	69.3	96.54	mg/L	90.8	90	110			
WG224985LFB2	LFB	05/19/07 0:14	IC070205-3	30		31.1	mg/L	103.7	90	110			
L62584-11DUP	DUP	05/21/07 23:22			113	113.3	mg/L				0.3	20	
L62584-12AS	AS	05/21/07 23:58	IC070205-3	60	112	167.9	mg/L	93.2	90	110			

ACZ Laboratories, Inc.
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Inorganic Extended Qualifier Report

Phelps Dodge Sierrita

ACZ Project ID: ***L62584***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Certification Qualifiers

helps Dodge Sierrita

ACZ Project ID: ***L62584***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.

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

Sample Receipt

Phelps Dodge Sierrita
OJ03Z5

ACZ Project ID: L62584
Date Received: 5/15/2007
Received By:
Date Printed: 5/15/2007

Receipt Verification

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

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
NA3562		2.2	16

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

Notes

ACZ Laboratories, Inc.

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

Sample Receipt

Phelps Dodge Sierrita
OJ03Z5

ACZ Project ID: L62584
Date Received: 5/15/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L62584-01	FGW-627485-051407									X		
L62584-02	UGW-627485-051407									X		
L62584-03	FGW-502546-051407									X		
L62584-04	UGW-502546-051407									X		
L62584-05	FGW-543600-051407									X		
L62584-06	UGW-543600-051407									X		
L62584-07	FGW-588121-051407									X		
L62584-08	UGW-588121-051407									X		
L62584-09	FGW-207982-051407									X		
L62584-10	UGW-207982-051407									X		
L62584-11	FGW-623102-051407									X		
L62584-12	UGW-623102-051407									X		
L62584-13	FGW-623103-051407									X		
L62584-14	UGW-623103-051407									X		
L62584-15	FGW-623104-051407									X		
L62584-16	UGW-623104-051407									X		
L62584-17	TB051407A									X		
L62584-18	EQ051407A									X		
L62584-19	DUP051407A									X		
L62584-20	DUP051407B									X		

Sample Container Preservation Legend

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: _____

L62584

ACZ Laboratories, Inc.

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

Pg 1 of 2 3rd

CHAIN of CUSTODY

Report to:

Name: Kim Garcia	Address: 51 W. Wetmore Rd.
Company: HydroGeoChem, Inc.	Tucson, AZ 85705-1678
E-mail: KimG@HGCInc.com	Telephone: 520-293-1500 x123

Copy of Report to:

Name: Ned Hall / B. Dorris / J. Morris	E-mail: JimN@HGCInc.com / Billy-Dorris@FMI.com
Company: PDSE & HGC	Telephone: 520-293-1500 x112 / 520-648-8573

Invoice to:

Name: Ned Hall	Address: 6200 W. Duval Mine Rd.
Company: PDSE	PO Box 527 Green Valley, AZ 85622
E-mail: Ned-Hall@FMI.com	Telephone: 520-648-8851

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 [X] 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

Quote #: Sierrita Sulfate

Project/PO #: 05Q375

Reporting state for compliance testing: AZ

Sampler's Name: JS/KG

Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE	TIME	Matrix	# of Containers	SO_4^{-1}				Field Params pH	EC	Temp
FGW-627485-051407	5-14-07	1330	GW	1	X				7.58	507	26.1
UGW-627485-051407	5-14-07	1330	GW	1	X				7.58	507	26.1
FGW-502546-051407	5-14-07	1007	GW	1	X				7.40	1860	27.4
UGW-502546-051407	5-14-07	1007	GW	1	X				7.40	1860	27.4
FGW-543600-051407	5-14-07	1111	GW	1	X				7.69	1379	29.4
UGW-543600-051407	5-14-07	1111	GW	1	X				7.69	1379	29.4
FGW-588121-051407	5-14-07	1200	GW	1	X				7.74	444	27.5
UGW-588121-051407	5-14-07	1200	GW	1	X				7.74	444	27.5
FGW-207982-051407	5-14-07	1245	GW	1	X			7.81	7.83	392	31.3
UGW-207982-051407	5-14-07	1245	GW	1	X				7.81	392	31.3

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

REMARKS

FGW* = Filtered Groundwater Sample

UGW* = Unfiltered Groundwater Sample

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
	5/14/07 1755	JMC 5/15/07	

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

L62584

ACZ Laboratories, Inc.

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

pg 2 of 23

CHAIN of CUSTODY

Report to:

Name: Kim Garcia	Address: Same
Company: HGC Inc.	
E-mail: kmg@HGCInc.com	Telephone: as on page 1

Copy of Report to:

Name: Ned Hall/Billy Dorris/J. Morris	E-mail:
Company: PDSI/HGC	Telephone: Same as on pg 1

Invoice to:

Name: Ned Hall	Address: Same
Company: PDSI	
E-mail: Ned-Hall@FMI.com	Telephone: as on p. 1

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

Quote #: Sierrita Sulfate

Project/PO #: 0JQ375

Reporting state for compliance testing: AZ

Sampler's Name: JS/KG

Are any samples NRC licensable material? ND

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE	TIME	Matrix	# of Containers	SO_4				Field Params pH	EC	Temp
~~FGW-(0)8518-051407~~	~~5.14.07~~		~~GW~~	~~1~~	~~X~~				Not Sampled		
~~UGW-(0)8518-051407~~	~~5.14.07~~		~~GW~~	~~1~~	~~X~~						
FGW-(0)23102-051407	5.14.07	1420	GW	1	X				7.70	592	28.7
UGW-(0)23102-051407	5.14.07	1420	GW	1	X				7.70	592	28.7
FGW-(0)23103-051407	5.14.07	1505	GW	1	X				7.85	368	27.8
UGW-(0)23103-051407	5.14.07	1505	GW	1	X				7.85	368	27.8
FGW-(0)23104-051407	5.14.07	1540	GW	1	X				7.78	374	28.8
UGW-(0)23104-051407	5.14.07	1540	GW	1	X				7.78	374	28.8
TB051407A	5.14.07	1000	GW	1	X				NA	NA	NA
EQ051407A	5.14.07	1520	GW	1	X				NA	NA	NA

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

REMARKS

FGW* = Filtered GW sample

UGW* = Unfiltered GW Sample

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
	5/14/07 1750	JMC 5/15/07	

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

L62584

ACZ Laboratories, Inc.

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

#9.3of2

CHAIN of CUSTODY

Report to:

Name: Kim Garcia	Address: Same
Company: HGC	
E-mail: KimG@HGCInc.com	Telephone:

Copy of Report to:

Name:	E-mail:
Company: Same	Telephone: Same

Invoice to:

Name:	Address: Same
Company: Same	
E-mail:	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 [X] 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

Quote #: Sierrita Sulfate

Project/PO #: OJ0375

Reporting state for compliance testing: AZ

Sampler's Name: RG/JS

Are any samples NRC licensable material? No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	$SO_4^{=}$
DUP051407A	5.14.07	GW	1	X
DUP051407B	5.14.07	GW	1	X

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

REMARKS

Duplicate Samples

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
	5/14/07 1750	JMC 5/15/07	

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

June 19, 2007

Report to:
Ned Hall
Phelps Dodge Sierrita
P.O. Box 527 6200 W. Duval Mine Rd.
Green Valley, AZ 85622-0527

Bill to:
Accounts Payable
Phelps Dodge Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

cc: Bill Dorris, Jim Norris, Kim Garcia

Project ID: OJ03Z5
ACZ Project ID: L63026

Ned Hall:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 05, 2007. This project has been assigned to ACZ's project number, L63026. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L63026. 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 July 19, 2007. 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.

19/Jun/07

Scott Habermehl, Project Manager, has reviewed and approved this report in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac

ACIL

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487(800) 334-5493

Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: UF-605898-060407

ACZ Sample ID: ***L63026-01***
Date Sampled: *06/04/07 14:55*
Date Received: *06/05/07*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	41.3		*	mg/L	0.5	3	06/12/07 3:09	jlf

Arizona license number: AZ0102

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487(800) 334-5493

Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: FGW-605898-060407

ACZ Sample ID: ***L63026-02***
Date Sampled: *06/04/07 14:55*
Date Received: *06/05/07*
Sample Matrix: *Ground Water*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	50.3			mg/L	0.2	1	06/15/07 20:11	djt
Magnesium, dissolved	M200.7 ICP	10.9			mg/L	0.2	1	06/15/07 20:11	djt
Potassium, dissolved	M200.7 ICP	3.9			mg/L	0.3	2	06/15/07 20:11	djt
Sodium, dissolved	M200.7 ICP	31.7			mg/L	0.3	2	06/15/07 20:11	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		169			mg/L	2	20	06/14/07 0:00	cas
Carbonate as CaCO3			U		mg/L	2	20	06/14/07 0:00	cas
Hydroxide as CaCO3			U		mg/L	2	20	06/14/07 0:00	cas
Total Alkalinity		169			mg/L	2	20	06/14/07 0:00	cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		4.3			%			06/19/07 0:00	calc
Sum of Anions		4.5			meq/L	0.1	0.5	06/19/07 0:00	calc
Sum of Cations		4.9			meq/L	0.1	0.5	06/19/07 0:00	calc
Chloride	M300.0 - Ion Chromatography	9.1		*	mg/L	0.5	3	06/12/07 3:27	jlf
Fluoride	M300.0 - Ion Chromatography	0.2	B	*	mg/L	0.1	0.5	06/12/07 3:27	jlf
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.34			mg/L	0.02	0.1	06/19/07 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.34		*	mg/L	0.02	0.1	06/05/07 18:59	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	06/05/07 18:59	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	280			mg/L	10	20	06/11/07 13:44	aeh
Sulfate	300.0 - Ion Chromatography	41.2		*	mg/L	0.5	3	06/12/07 3:27	jlf
TDS (calculated)	Calculation	250			mg/L	10	50	06/19/07 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.12						06/19/07 0:00	calc

Arizona license number: AZ0102

Report Header Explanations

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 Sample Types

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 Calivation 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 Type Explanations

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.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(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.

Comments

(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.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic QC Summary

Phelps Dodge Sierrita
Project ID: OJ03Z5

ACZ Project ID: ***L63026***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226491													
WG226491PBW1	PBW	06/14/07 13:05				U	mg/L		-20	20			
WG226491LCSW2	LCSW	06/14/07 13:16	WC070601-1	820		795.7	mg/L	97	90	110			
L63038-02DUP	DUP	06/14/07 16:25			378	375.9	mg/L				0.6	20	
WG226491PBW2	PBW	06/14/07 16:31				U	mg/L		-20	20			
WG226491LCSW5	LCSW	06/14/07 16:44	WC070601-1	820		816.8	mg/L	99.6	90	110			
WG226491PBW3	PBW	06/14/07 21:05				U	mg/L		-20	20			
WG226491LCSW8	LCSW	06/14/07 21:16	WC070601-1	820		821.3	mg/L	100.2	90	110			
WG226491PBW4	PBW	06/15/07 0:31				U	mg/L		-20	20			
WG226491LCSW11	LCSW	06/15/07 0:44	WC070601-1	820		820.5	mg/L	100.1	90	110			
WG226491LCSW14	LCSW	06/15/07 3:13	WC070601-1	820		821.3	mg/L	100.2	90	110			

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226498													
WG226498ICV	ICV	06/15/07 18:28	II070612-3	100		102.28	mg/L	102.3	95	105			
WG226498ICB	ICB	06/15/07 18:31				U	mg/L		-0.6	0.6			
WG226498LFB	LFB	06/15/07 18:44	II070601-2	67.99189		74.02	mg/L	108.9	85	115			
L63006-05AS	AS	06/15/07 19:34	II070601-2	67.99189	125	186.34	mg/L	90.2	85	115			
L63006-05ASD	ASD	06/15/07 19:37	II070601-2	67.99189	125	190.11	mg/L	95.8	85	115	2	20	

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226250													
WG226250ICV	ICV	06/11/07 13:52	IC070606-1	20		20.34	mg/L	101.7	90	110			
WG226250ICB	ICB	06/11/07 14:10				U	mg/L		-1.5	1.5			
WG226250LFB1	LFB	06/11/07 14:28	IC070205-3	30		30.76	mg/L	102.5	90	110			
WG226250LFB2	LFB	06/11/07 23:13	IC070205-3	30		30.82	mg/L	102.7	90	110			
L62993-03DUP	DUP	06/11/07 23:50			8	8.05	mg/L				0.6	20	
L62993-04AS	AS	06/12/07 0:26	IC070205-3	30	10.8	33.52	mg/L	75.7	90	110			M2
WG226250ICV1	ICV	06/12/07 14:59	IC070606-1	20		20.31	mg/L	101.6	90	110			
WG226250ICB1	ICB	06/12/07 15:17				U	mg/L		-1.5	1.5			

Fluoride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226250													
WG226250ICV	ICV	06/11/07 13:52	IC070606-1	3.984		4.13	mg/L	103.7	90	110			
WG226250ICB	ICB	06/11/07 14:10				U	mg/L		-0.3	0.3			
WG226250LFB1	LFB	06/11/07 14:28	IC070205-3	1.5		1.58	mg/L	105.3	90	110			
WG226250LFB2	LFB	06/11/07 23:13	IC070205-3	1.5		1.57	mg/L	104.7	90	110			
L62993-03DUP	DUP	06/11/07 23:50			.2	.11	mg/L				58.1	20	RA
L62993-04AS	AS	06/12/07 0:26	IC070205-3	1.5	.2	1.36	mg/L	77.3	90	110			M2
WG226250ICV1	ICV	06/12/07 14:59	IC070606-1	3.984		4.11	mg/L	103.2	90	110			
WG226250ICB1	ICB	06/12/07 15:17				U	mg/L		-0.3	0.3			

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Inorganic QC Summary

Phelps Dodge Sierrita
Project ID: OJ03Z5

ACZ Project ID: ***L63026***

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226498													
WG226498ICV	ICV	06/15/07 18:28	II070612-3	100		104.21	mg/L	104.2	95	105			
WG226498ICB	ICB	06/15/07 18:31				U	mg/L		-0.6	0.6			
WG226498LFB	LFB	06/15/07 18:44	II070601-2	54.96149		60.39	mg/L	109.9	85	115			
L63006-05AS	AS	06/15/07 19:34	II070601-2	54.96149	129	178.88	mg/L	90.8	85	115			
L63006-05ASD	ASD	06/15/07 19:37	II070601-2	54.96149	129	183.06	mg/L	98.4	85	115	2.31	20	

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225946													
WG225946ICV	ICV	06/05/07 18:01	WI070308-3	2.416		2.346	mg/L	97.1	90	110			
WG225946ICB	ICB	06/05/07 18:02				U	mg/L		-0.06	0.06			
WG225946LFB1	LFB	06/05/07 18:07	WI070307-9	2		1.989	mg/L	99.5	90	110			
WG225946LFB2	LFB	06/05/07 18:45	WI070307-9	2		1.942	mg/L	97.1	90	110			
L63006-07AS	AS	06/05/07 18:51	WI070307-9	2	.5	2.477	mg/L	98.9	90	110			
L63006-08DUP	DUP	06/05/07 18:53			.11	.108	mg/L				1.8	20	RA

Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG225946													
WG225946ICV	ICV	06/05/07 18:01	WI070308-3	.609		.616	mg/L	101.1	90	110			
WG225946ICB	ICB	06/05/07 18:02				U	mg/L		-0.03	0.03			
WG225946LFB1	LFB	06/05/07 18:07	WI070307-9	1		1.021	mg/L	102.1	90	110			
WG225946LFB2	LFB	06/05/07 18:45	WI070307-9	1		1.002	mg/L	100.2	90	110			
L63006-07AS	AS	06/05/07 18:51	WI070307-9	1	U	1.032	mg/L	103.2	90	110			
L63006-08DUP	DUP	06/05/07 18:53			.02	.023	mg/L				14	20	RA

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226498													
WG226498ICV	ICV	06/15/07 18:28	II070612-3	20		20.01	mg/L	100.1	95	105			
WG226498ICB	ICB	06/15/07 18:31				U	mg/L		-0.9	0.9			
WG226498LFB	LFB	06/15/07 18:44	II070601-2	99.69893		104.95	mg/L	105.3	85	115			
L63006-05AS	AS	06/15/07 19:34	II070601-2	99.69893	1.9	108.67	mg/L	107.1	85	115			
L63006-05ASD	ASD	06/15/07 19:37	II070601-2	99.69893	1.9	115.95	mg/L	114.4	85	115	6.48	20	

Residue, Filterable (TDS) @180C 160.1 / SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226260													
WG226260PBW	PBW	06/11/07 13:20				U	mg/L		-20	20			
WG226260LCSW	LCSW	06/11/07 13:21	PCN27107	261		278	mg/L	106.5	80	120			
L63045-02DUP	DUP	06/11/07 13:54			3650	3648	mg/L				0.1	20	

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Inorganic QC Summary

Phelps Dodge Sierrita

Project ID: OJ03Z5

ACZ Project ID: ***L63026***

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226498													
WG226498ICV	ICV	06/15/07 18:28	II070612-3	100		100.99	mg/L	101	95	105			
WG226498ICB	ICB	06/15/07 18:31				U	mg/L		-0.9	0.9			
WG226498LFB	LFB	06/15/07 18:44	II070601-2	98.01954		103.97	mg/L	106.1	85	115			
L63006-05AS	AS	06/15/07 19:34	II070601-2	98.01954	84.6	180.7	mg/L	98	85	115			
L63006-05ASD	ASD	06/15/07 19:37	II070601-2	98.01954	84.6	187.73	mg/L	105.2	85	115	3.82	20	

Sulfate 300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226250													
WG226250ICV	ICV	06/11/07 13:52	IC070606-1	50.15		51.51	mg/L	102.7	90	110			
WG226250ICB	ICB	06/11/07 14:10				U	mg/L		-1.5	1.5			
WG226250LFB1	LFB	06/11/07 14:28	IC070205-3	30		30.86	mg/L	102.9	90	110			
WG226250LFB2	LFB	06/11/07 23:13	IC070205-3	30		30.57	mg/L	101.9	90	110			
WG226250ICV1	ICV	06/12/07 14:59	IC070606-1	50.15		51.17	mg/L	102	90	110			
WG226250ICB1	ICB	06/12/07 15:17				U	mg/L		-1.5	1.5			
L62993-03DUP	DUP	06/12/07 17:42			390	388	mg/L				0.5	20	
L62993-04AS	AS	06/12/07 18:18	IC070205-3	600	1120	1606	mg/L	81	90	110			M2

ACZ Laboratories, Inc.
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Inorganic Extended Qualifier Report

'helps Dodge Sierrita

ACZ Project ID: ***L63026***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63026-01	WG226250	Sulfate	300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
L63026-02	WG226250	Chloride	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
		Fluoride	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG225946	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226250	Sulfate	300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.

Certification Qualifiers

'helps Dodge Sierrita

ACZ Project ID: ***L63026***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

'helps Dodge Sierrita
OJ03Z5

ACZ Project ID: L63026
Date Received: 6/5/2007
Received By:
Date Printed: 6/5/2007

Receipt Verification

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

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (If any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
NA3706		4.2	15

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

Notes

ACZ Laboratories, Inc.

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

Sample Receipt

Phelps Dodge Sierrita
OJ03Z5

ACZ Project ID: L63026
Date Received: 6/5/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L63026-01	UF-605898-060407									X		
L63026-02	FGW-605898-060407		Y									

Sample Container Preservation Legend

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

L63026

CHAIN of CUSTODY

Report to:

Name: Kim Gorela
Company: Hydro Geo Chem Inc
E-mail: kimg@hgcinc.com

Address: 51 W Wetmore Rd
Tucson AZ 85705-1678
Telephone: 520) 293-1500 x 123

Copy of Report to:

Name: Ned Hall/Bill Doris/Jim Norris
Company: PDSI/HGC

E-mail: JimN@hgcinc.com, billydorris@FMI.com
Telephone: 293-1500 x 123 648-8873

Invoice to:

Name: Ned Hall
Company: PDSI
E-mail: ned-hall@fmi.com

Address: 6200 W. Duval Mine Rd
PO Box 527 Green Valley, AZ 85622
Telephone: 648-8857

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?
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.

YES ✓
NO

PROJECT INFORMATION

Quote #: Sierrita Short
Project/PO #: OJQ375
Reporting state for compliance testing: AZ
Sampler's Name: Mark Arneson
Are any samples NRC licensable material? No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO_4^{2-}	Ca Mg Na K	Alk, TDS, SO_4^{2-}, Cl⁻, F⁻, NO_3^--N		pH	EC	Temp °C	
UF-605898-060407	6/4/07 : 1455	GW	1	X				7.20	411	25.9	
FGW-605898-060407	6/4/07 : 1455	GW	2		X	X		7.20	411	25.9	

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

REMARKS

UF = unFiltered
FGW = Filtered Groundwater sample

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
	6/4/07 : 1715		6/5/07 11:40

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

June 19, 2007

Report to:
Ned Hall
Phelps Dodge Sierrita
P.O. Box 527 6200 W. Duval Mine Rd.
Green Valley, AZ 85622-0527

Bill to:
Accounts Payable
Phelps Dodge Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

cc: Kim Garcia, Jim Norris, Bill Dorris

Project ID: OJ03Z5
ACZ Project ID: L63094

Ned Hall:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 07, 2007. This project has been assigned to ACZ's project number, L63094. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L63094. 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 July 19, 2007. 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.

19/Jun/07

Scott Habermehl, Project Manager, has reviewed and approved this report in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac

ACIL

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487(800) 334-5493

Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: UGW-627483-060607

ACZ Sample ID: ***L63094-01***
Date Sampled: *06/06/07 07:50*
Date Received: *06/07/07*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	58.7			mg/L	0.5	3	06/14/07 18:02	jlf

Arizona license number: AZ0102

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: FGW-627483-060607

ACZ Sample ID: ***L63094-02***
Date Sampled: *06/06/07 07:50*
Date Received: *06/07/07*
Sample Matrix: *Ground Water*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	56.1			mg/L	0.2	1	06/15/07 2:26	djt
Magnesium, dissolved	M200.7 ICP	10.9		*	mg/L	0.2	1	06/15/07 2:26	djt
Potassium, dissolved	M200.7 ICP	3.0			mg/L	0.3	2	06/15/07 2:26	djt
Sodium, dissolved	M200.7 ICP	30.5			mg/L	0.3	2	06/15/07 2:26	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		140			mg/L	2	20	06/14/07 0:00	cas
Carbonate as CaCO3			U		mg/L	2	20	06/14/07 0:00	cas
Hydroxide as CaCO3			U		mg/L	2	20	06/14/07 0:00	cas
Total Alkalinity		140			mg/L	2	20	06/14/07 0:00	cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		4.1			%			06/19/07 11:04	calc
Sum of Anions		4.7			meq/L	0.1	0.5	06/19/07 11:04	calc
Sum of Cations		5.1			meq/L	0.1	0.5	06/19/07 11:04	calc
Chloride	M300.0 - Ion Chromatography	17.7			mg/L	0.5	3	06/14/07 18:38	jlf
Fluoride	M300.0 - Ion Chromatography	0.3	B	*	mg/L	0.1	0.5	06/14/07 18:38	jlf
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	2.92			mg/L	0.02	0.1	06/19/07 11:04	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	2.92		*	mg/L	0.02	0.1	06/07/07 22:06	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	06/07/07 22:06	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	300		*	mg/L	10	20	06/13/07 11:35	aeh
Sulfate	300.0 - Ion Chromatography	57.9			mg/L	0.5	3	06/14/07 18:38	jlf
TDS (calculated)	Calculation	273			mg/L	10	50	06/19/07 11:04	calc
TDS (ratio - measured/calculated)	Calculation	1.10						06/19/07 11:04	calc

Arizona license number: AZ0102

Report Header Explanations

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 Sample Types

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 Calivation 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 Type Explanations

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.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(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.

Comments

(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.

Phelps Dodge Sierrita
Project ID: OJ03Z5

ACZ Project ID: ***L63094***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226491													
WG226491PBW1	PBW	06/14/07 13:05				U	mg/L		-20	20			
WG226491LCSW2	LCSW	06/14/07 13:16	WC070601-1	820		795.7	mg/L	97	90	110			
WG226491PBW2	PBW	06/14/07 16:31				U	mg/L		-20	20			
WG226491LCSW5	LCSW	06/14/07 16:44	WC070601-1	820		816.8	mg/L	99.6	90	110			
WG226491PBW3	PBW	06/14/07 21:05				U	mg/L		-20	20			
WG226491LCSW8	LCSW	06/14/07 21:16	WC070601-1	820		821.3	mg/L	100.2	90	110			
L63094-02DUP	DUP	06/14/07 22:47			140	138.9	mg/L				0.8	20	
WG226491PBW4	PBW	06/15/07 0:31				U	mg/L		-20	20			
WG226491LCSW11	LCSW	06/15/07 0:44	WC070601-1	820		820.5	mg/L	100.1	90	110			
WG226491LCSW14	LCSW	06/15/07 3:13	WC070601-1	820		821.3	mg/L	100.2	90	110			

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226522													
WG226522ICV	ICV	06/15/07 1:15	II070612-3	100		98.57	mg/L	98.6	95	105			
WG226522ICB	ICB	06/15/07 1:19				U	mg/L		-0.6	0.6			
WG226522LFB	LFB	06/15/07 1:36	II070601-2	67.99189		68.69	mg/L	101	85	115			
L63071-02AS	AS	06/15/07 1:44	II070601-2	67.99189	135	198.46	mg/L	93.3	85	115			
L63071-02ASD	ASD	06/15/07 1:48	II070601-2	67.99189	135	196.18	mg/L	90	85	115	1.16	20	

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226250													
WG226250ICV	ICV	06/11/07 13:52	IC070606-1	20		20.34	mg/L	101.7	90	110			
WG226250ICB	ICB	06/11/07 14:10				U	mg/L		-1.5	1.5			
WG226250ICV1	ICV	06/12/07 14:59	IC070606-1	20		20.31	mg/L	101.6	90	110			
WG226250ICB1	ICB	06/12/07 15:17				U	mg/L		-1.5	1.5			
WG226534													
WG226534ICV	ICV	06/11/07 13:52	IC070606-1	20		20.34	mg/L	101.7	90	110			
WG226534ICB	ICB	06/11/07 14:10				U	mg/L		-1.5	1.5			
WG226534ICV1	ICV	06/14/07 16:31	IC070606-1	20		20.3	mg/L	101.5	90	110			
WG226534ICB1	ICB	06/14/07 16:49				U	mg/L		-1.5	1.5			
WG226534LFB	LFB	06/14/07 17:07	IC070205-3	30		30	mg/L	100	90	110			
L63014-01DUP	DUP	06/14/07 17:43			49.3	49.1	mg/L				0.4	20	
L63094-01AS	AS	06/14/07 18:20	IC070205-3	30	18	46.28	mg/L	94.3	90	110			
WG226534ICV2	ICV	06/18/07 11:10	IC070606-1	20		20.25	mg/L	101.3	90	110			
WG226534ICB2	ICB	06/18/07 11:28				U	mg/L		-1.5	1.5			

Phelps Dodge Sierrita
Project ID: OJ03Z5

ACZ Project ID: ***L63094***

Fluoride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226250													
WG226250ICV	ICV	06/11/07 13:52	IC070606-1	3.984		4.13	mg/L	103.7	90	110			
WG226250ICB	ICB	06/11/07 14:10				U	mg/L		-0.3	0.3			
WG226250ICV1	ICV	06/12/07 14:59	IC070606-1	3.984		4.11	mg/L	103.2	90	110			
WG226250ICB1	ICB	06/12/07 15:17				U	mg/L		-0.3	0.3			
WG226534													
WG226534ICV	ICV	06/11/07 13:52	IC070606-1	3.984		4.13	mg/L	103.7	90	110			
WG226534ICB	ICB	06/11/07 14:10				U	mg/L		-0.3	0.3			
WG226534ICV1	ICV	06/14/07 16:31	IC070606-1	3.984		4.12	mg/L	103.4	90	110			
WG226534ICB1	ICB	06/14/07 16:49				U	mg/L		-0.3	0.3			
WG226534LFB	LFB	06/14/07 17:07	IC070205-3	1.5		1.55	mg/L	103.3	90	110			
L63014-01DUP	DUP	06/14/07 17:43			.3	.29	mg/L				3.4	20	RA
L63094-01AS	AS	06/14/07 18:20	IC070205-3	1.5	.2	1.77	mg/L	104.7	90	110			
WG226534ICV2	ICV	06/18/07 11:10	IC070606-1	3.984		4.11	mg/L	103.2	90	110			
WG226534ICB2	ICB	06/18/07 11:28				.11	mg/L		-0.3	0.3			

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226522													
WG226522ICV	ICV	06/15/07 1:15	II070612-3	100		99.9	mg/L	99.9	95	105			
WG226522ICB	ICB	06/15/07 1:19				U	mg/L		-0.6	0.6			
WG226522LFB	LFB	06/15/07 1:36	II070601-2	54.96149		54.94	mg/L	100	85	115			
L63071-02AS	AS	06/15/07 1:44	II070601-2	54.96149	11.9	71.91	mg/L	109.2	85	115			
L63071-02ASD	ASD	06/15/07 1:48	II070601-2	54.96149	11.9	76.64	mg/L	117.8	85	115	6.37	20	MA

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226127													
WG226127ICV	ICV	06/07/07 21:06	WI070308-3	2.416		2.331	mg/L	96.5	90	110			
WG226127ICB	ICB	06/07/07 21:07				U	mg/L		-0.06	0.06			
WG226127LFB1	LFB	06/07/07 21:12	WI070307-9	2		2.008	mg/L	100.4	90	110			
WG226127LFB2	LFB	06/07/07 21:50	WI070307-9	2		1.938	mg/L	96.9	90	110			
L63089-08AS	AS	06/07/07 21:56	WI070307-9	2	U	1.981	mg/L	99.1	90	110			
L63089-09DUP	DUP	06/07/07 21:59			U	U	mg/L				0	20	RA

Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226127													
WG226127ICV	ICV	06/07/07 21:06	WI070308-3	.609		.61	mg/L	100.2	90	110			
WG226127ICB	ICB	06/07/07 21:07				U	mg/L		-0.03	0.03			
WG226127LFB1	LFB	06/07/07 21:12	WI070307-9	1		1.017	mg/L	101.7	90	110			
WG226127LFB2	LFB	06/07/07 21:50	WI070307-9	1		.992	mg/L	99.2	90	110			
L63089-08AS	AS	06/07/07 21:56	WI070307-9	1	U	1.026	mg/L	102.6	90	110			
L63089-09DUP	DUP	06/07/07 21:59			U	U	mg/L				0	20	RA

Phelps Dodge Sierrita
Project ID: OJ03Z5

ACZ Project ID: ***L63094***

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226522													
WG226522ICV	ICV	06/15/07 1:15	II070612-3	20		20.56	mg/L	102.8	95	105			
WG226522ICB	ICB	06/15/07 1:19				U	mg/L		-0.9	0.9			
WG226522LFB	LFB	06/15/07 1:36	II070601-2	99.69893		102.15	mg/L	102.5	85	115			
L63071-02AS	AS	06/15/07 1:44	II070601-2	99.69893	28.5	135.22	mg/L	107	85	115			
L63071-02ASD	ASD	06/15/07 1:48	II070601-2	99.69893	28.5	132.62	mg/L	104.4	85	115	1.94	20	

Residue, Filterable (TDS) @180C 160.1 / SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226419													
WG226419PBW	PBW	06/13/07 11:20				U	mg/L		-20	20			
WG226419LCSW	LCSW	06/13/07 11:21	PCN27107	261		296	mg/L	113.4	80	120			
L63119-03DUP	DUP	06/13/07 11:38			60	70	mg/L				15.4	20	RA

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226522													
WG226522ICV	ICV	06/15/07 1:15	II070612-3	100		101.88	mg/L	101.9	95	105			
WG226522ICB	ICB	06/15/07 1:19				U	mg/L		-0.9	0.9			
WG226522LFB	LFB	06/15/07 1:36	II070601-2	98.01954		100.11	mg/L	102.1	85	115			
L63071-02AS	AS	06/15/07 1:44	II070601-2	98.01954	91.3	189.06	mg/L	99.7	85	115			
L63071-02ASD	ASD	06/15/07 1:48	II070601-2	98.01954	91.3	188.61	mg/L	99.3	85	115	0.24	20	

Sulfate 300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226250													
WG226250ICV	ICV	06/11/07 13:52	IC070606-1	50.15		51.51	mg/L	102.7	90	110			
WG226250ICB	ICB	06/11/07 14:10				U	mg/L		-1.5	1.5			
WG226250ICV1	ICV	06/12/07 14:59	IC070606-1	50.15		51.17	mg/L	102	90	110			
WG226250ICB1	ICB	06/12/07 15:17				U	mg/L		-1.5	1.5			
WG226534													
WG226534ICV	ICV	06/11/07 13:52	IC070606-1	50.15		51.51	mg/L	102.7	90	110			
WG226534ICB	ICB	06/11/07 14:10				U	mg/L		-1.5	1.5			
WG226534ICV1	ICV	06/14/07 16:31	IC070606-1	50.15		51.2	mg/L	102.1	90	110			
WG226534ICB1	ICB	06/14/07 16:49				U	mg/L		-1.5	1.5			
WG226534LFB	LFB	06/14/07 17:07	IC070205-3	30		30.14	mg/L	100.5	90	110			
L63094-01AS	AS	06/14/07 18:20	IC070205-3	30	58.7	85.95	mg/L	90.8	90	110			
WG226534ICV2	ICV	06/18/07 11:10	IC070606-1	50.15		50.97	mg/L	101.6	90	110			
WG226534ICB2	ICB	06/18/07 11:28				U	mg/L		-1.5	1.5			
L63014-01DUP	DUP	06/18/07 12:05			385	385.9	mg/L				0.2	20	

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Phelps Dodge Sierrita

ACZ Project ID: *L63094*

ACZ ID	Inorganic	Parameter	Method	Qual	Description
L63094-02	WG226522	Magnesium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG226534	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226127	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226419	Residue, Filterable (TDS) @180C	160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

helps Dodge Sierrita

ACZ Project ID: ***L63094***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.

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

Sample Receipt

Phelps Dodge Sierrita
OJ03Z5

ACZ Project ID: L63094
Date Received: 6/7/2007
Received By:
Date Printed: 6/8/2007

Receipt Verification

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

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
NA3729		2.5	14

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

Notes

ACZ Laboratories, Inc.

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

Sample Receipt

Phelps Dodge Sierrita
OJ03Z5

ACZ Project ID: L63094
Date Received: 6/7/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L63094-01	UGW-627483-060607									X		
L63094-02	FGW-627483-060607		Y									

Sample Container Preservation Legend

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

L63094

CHAIN of CUSTODY

Report to:

Name: Kim Garcia
Company: Hydro Geo Chem Inc.
E-mail: kimg@hgcinc.com

Address: 51 W. Wetmore Rd
Tucson, AZ 85705
Telephone: 520) 293-1500 x123

Copy of Report to:

Name: Ned Hall, Bill Davis, Jim Norris
Company: PDSL/HGC

E-mail: jimn@hgcinc.com billdavis@fmi.com
Telephone: 293-1500 x123 648-9873

Invoice to:

Name: Ned Hall
Company: PDST
E-mail: ned-hall@fmi.com

Address: 6800 W. Duval Mine Rd
PO Box 527 Green Valley, AZ 85622
Telephone: 520) 648-8857

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?
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.

YES ✓
NO

PROJECT INFORMATION

Quote #: Sierrita Short
Project/PO #: OJ0325
Reporting state for compliance testing: AZ
Sampler's Name: Mark Arneson
Are any samples NRC licensable material? NO

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO_4^{2-}	Ca Mg Na K	Alk, TDS, SO_4^{2-}, Cl, F, NO_3-NO_2		pH	EC	Temp C	
UGW-627483-060607	6/6/07: 0750	GW	1	X				7.74	449	25.3	
FGW-627483-060607	6/6/07: 0750	GW	2		X	X		7.74	449	25.3	

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

REMARKS

Please Rush Results

UGW = UnFiltered Groundwater Sample
FGW = Filtered Ground Water Sample

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Mark Arneson	6/6/07: 1558	KW	6/7/07 12:17

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

June 19, 2007

Report to:
Ned Hall
Phelps Dodge Sierrita
P.O. Box 527 6200 W. Duval Mine Rd.
Green Valley, AZ 85622-0527

Bill to:
Accounts Payable
Phelps Dodge Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

cc: Kim Garcia, Jim Norris, Bill Dorris

Project ID: OJ03Z5
ACZ Project ID: L63094

Ned Hall:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 07, 2007. This project has been assigned to ACZ's project number, L63094. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L63094. 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 July 19, 2007. 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.

19/Jun/07

Scott Habermehl, Project Manager, has reviewed and approved this report in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac

ACIL

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487(800) 334-5493

Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: UGW-627483-060607

ACZ Sample ID: ***L63094-01***
Date Sampled: *06/06/07 07:50*
Date Received: *06/07/07*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	58.7			mg/L	0.5	3	06/14/07 18:02	jlf

Arizona license number: AZ0102

ACZ Laboratories, Inc.
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Inorganic Analytical Results

Phelps Dodge Sierrita
Project ID: OJ03Z5
Sample ID: FGW-627483-060607

ACZ Sample ID: ***L63094-02***
Date Sampled: *06/06/07 07:50*
Date Received: *06/07/07*
Sample Matrix: *Ground Water*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	56.1			mg/L	0.2	1	06/15/07 2:26	djt
Magnesium, dissolved	M200.7 ICP	10.9		*	mg/L	0.2	1	06/15/07 2:26	djt
Potassium, dissolved	M200.7 ICP	3.0			mg/L	0.3	2	06/15/07 2:26	djt
Sodium, dissolved	M200.7 ICP	30.5			mg/L	0.3	2	06/15/07 2:26	djt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		140			mg/L	2	20	06/14/07 0:00	cas
Carbonate as CaCO3			U		mg/L	2	20	06/14/07 0:00	cas
Hydroxide as CaCO3			U		mg/L	2	20	06/14/07 0:00	cas
Total Alkalinity		140			mg/L	2	20	06/14/07 0:00	cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		4.1			%			06/19/07 11:04	calc
Sum of Anions		4.7			meq/L	0.1	0.5	06/19/07 11:04	calc
Sum of Cations		5.1			meq/L	0.1	0.5	06/19/07 11:04	calc
Chloride	M300.0 - Ion Chromatography	17.7			mg/L	0.5	3	06/14/07 18:38	jlf
Fluoride	M300.0 - Ion Chromatography	0.3	B	*	mg/L	0.1	0.5	06/14/07 18:38	jlf
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	2.92			mg/L	0.02	0.1	06/19/07 11:04	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	2.92		*	mg/L	0.02	0.1	06/07/07 22:06	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	06/07/07 22:06	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	300		*	mg/L	10	20	06/13/07 11:35	aeh
Sulfate	300.0 - Ion Chromatography	57.9			mg/L	0.5	3	06/14/07 18:38	jlf
TDS (calculated)	Calculation	273			mg/L	10	50	06/19/07 11:04	calc
TDS (ratio - measured/calculated)	Calculation	1.10						06/19/07 11:04	calc

Arizona license number: AZ0102

Report Header Explanations

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 Sample Types

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 Calivation 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 Type Explanations

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.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

(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.

Comments

(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.

Phelps Dodge Sierrita
Project ID: OJ03Z5

ACZ Project ID: ***L63094***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226491													
WG226491PBW1	PBW	06/14/07 13:05				U	mg/L		-20	20			
WG226491LCSW2	LCSW	06/14/07 13:16	WC070601-1	820		795.7	mg/L	97	90	110			
WG226491PBW2	PBW	06/14/07 16:31				U	mg/L		-20	20			
WG226491LCSW5	LCSW	06/14/07 16:44	WC070601-1	820		816.8	mg/L	99.6	90	110			
WG226491PBW3	PBW	06/14/07 21:05				U	mg/L		-20	20			
WG226491LCSW8	LCSW	06/14/07 21:16	WC070601-1	820		821.3	mg/L	100.2	90	110			
L63094-02DUP	DUP	06/14/07 22:47			140	138.9	mg/L				0.8	20	
WG226491PBW4	PBW	06/15/07 0:31				U	mg/L		-20	20			
WG226491LCSW11	LCSW	06/15/07 0:44	WC070601-1	820		820.5	mg/L	100.1	90	110			
WG226491LCSW14	LCSW	06/15/07 3:13	WC070601-1	820		821.3	mg/L	100.2	90	110			

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226522													
WG226522ICV	ICV	06/15/07 1:15	II070612-3	100		98.57	mg/L	98.6	95	105			
WG226522ICB	ICB	06/15/07 1:19				U	mg/L		-0.6	0.6			
WG226522LFB	LFB	06/15/07 1:36	II070601-2	67.99189		68.69	mg/L	101	85	115			
L63071-02AS	AS	06/15/07 1:44	II070601-2	67.99189	135	198.46	mg/L	93.3	85	115			
L63071-02ASD	ASD	06/15/07 1:48	II070601-2	67.99189	135	196.18	mg/L	90	85	115	1.16	20	

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226250													
WG226250ICV	ICV	06/11/07 13:52	IC070606-1	20		20.34	mg/L	101.7	90	110			
WG226250ICB	ICB	06/11/07 14:10				U	mg/L		-1.5	1.5			
WG226250ICV1	ICV	06/12/07 14:59	IC070606-1	20		20.31	mg/L	101.6	90	110			
WG226250ICB1	ICB	06/12/07 15:17				U	mg/L		-1.5	1.5			
WG226534													
WG226534ICV	ICV	06/11/07 13:52	IC070606-1	20		20.34	mg/L	101.7	90	110			
WG226534ICB	ICB	06/11/07 14:10				U	mg/L		-1.5	1.5			
WG226534ICV1	ICV	06/14/07 16:31	IC070606-1	20		20.3	mg/L	101.5	90	110			
WG226534ICB1	ICB	06/14/07 16:49				U	mg/L		-1.5	1.5			
WG226534LFB	LFB	06/14/07 17:07	IC070205-3	30		30	mg/L	100	90	110			
L63014-01DUP	DUP	06/14/07 17:43			49.3	49.1	mg/L				0.4	20	
L63094-01AS	AS	06/14/07 18:20	IC070205-3	30	18	46.28	mg/L	94.3	90	110			
WG226534ICV2	ICV	06/18/07 11:10	IC070606-1	20		20.25	mg/L	101.3	90	110			
WG226534ICB2	ICB	06/18/07 11:28				U	mg/L		-1.5	1.5			

Phelps Dodge Sierrita
Project ID: OJ03Z5

ACZ Project ID: ***L63094***

Fluoride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226250													
WG226250ICV	ICV	06/11/07 13:52	IC070606-1	3.984		4.13	mg/L	103.7	90	110			
WG226250ICB	ICB	06/11/07 14:10				U	mg/L		-0.3	0.3			
WG226250ICV1	ICV	06/12/07 14:59	IC070606-1	3.984		4.11	mg/L	103.2	90	110			
WG226250ICB1	ICB	06/12/07 15:17				U	mg/L		-0.3	0.3			
WG226534													
WG226534ICV	ICV	06/11/07 13:52	IC070606-1	3.984		4.13	mg/L	103.7	90	110			
WG226534ICB	ICB	06/11/07 14:10				U	mg/L		-0.3	0.3			
WG226534ICV1	ICV	06/14/07 16:31	IC070606-1	3.984		4.12	mg/L	103.4	90	110			
WG226534ICB1	ICB	06/14/07 16:49				U	mg/L		-0.3	0.3			
WG226534LFB	LFB	06/14/07 17:07	IC070205-3	1.5		1.55	mg/L	103.3	90	110			
L63014-01DUP	DUP	06/14/07 17:43			.3	.29	mg/L				3.4	20	RA
L63094-01AS	AS	06/14/07 18:20	IC070205-3	1.5	.2	1.77	mg/L	104.7	90	110			
WG226534ICV2	ICV	06/18/07 11:10	IC070606-1	3.984		4.11	mg/L	103.2	90	110			
WG226534ICB2	ICB	06/18/07 11:28				.11	mg/L		-0.3	0.3			

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226522													
WG226522ICV	ICV	06/15/07 1:15	II070612-3	100		99.9	mg/L	99.9	95	105			
WG226522ICB	ICB	06/15/07 1:19				U	mg/L		-0.6	0.6			
WG226522LFB	LFB	06/15/07 1:36	II070601-2	54.96149		54.94	mg/L	100	85	115			
L63071-02AS	AS	06/15/07 1:44	II070601-2	54.96149	11.9	71.91	mg/L	109.2	85	115			
L63071-02ASD	ASD	06/15/07 1:48	II070601-2	54.96149	11.9	76.64	mg/L	117.8	85	115	6.37	20	MA

Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226127													
WG226127ICV	ICV	06/07/07 21:06	WI070308-3	2.416		2.331	mg/L	96.5	90	110			
WG226127ICB	ICB	06/07/07 21:07				U	mg/L		-0.06	0.06			
WG226127LFB1	LFB	06/07/07 21:12	WI070307-9	2		2.008	mg/L	100.4	90	110			
WG226127LFB2	LFB	06/07/07 21:50	WI070307-9	2		1.938	mg/L	96.9	90	110			
L63089-08AS	AS	06/07/07 21:56	WI070307-9	2	U	1.981	mg/L	99.1	90	110			
L63089-09DUP	DUP	06/07/07 21:59			U	U	mg/L				0	20	RA

Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226127													
WG226127ICV	ICV	06/07/07 21:06	WI070308-3	.609		.61	mg/L	100.2	90	110			
WG226127ICB	ICB	06/07/07 21:07				U	mg/L		-0.03	0.03			
WG226127LFB1	LFB	06/07/07 21:12	WI070307-9	1		1.017	mg/L	101.7	90	110			
WG226127LFB2	LFB	06/07/07 21:50	WI070307-9	1		.992	mg/L	99.2	90	110			
L63089-08AS	AS	06/07/07 21:56	WI070307-9	1	U	1.026	mg/L	102.6	90	110			
L63089-09DUP	DUP	06/07/07 21:59			U	U	mg/L				0	20	RA

Phelps Dodge Sierrita
Project ID: OJ03Z5

ACZ Project ID: ***L63094***

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226522													
WG226522ICV	ICV	06/15/07 1:15	II070612-3	20		20.56	mg/L	102.8	95	105			
WG226522ICB	ICB	06/15/07 1:19				U	mg/L		-0.9	0.9			
WG226522LFB	LFB	06/15/07 1:36	II070601-2	99.69893		102.15	mg/L	102.5	85	115			
L63071-02AS	AS	06/15/07 1:44	II070601-2	99.69893	28.5	135.22	mg/L	107	85	115			
L63071-02ASD	ASD	06/15/07 1:48	II070601-2	99.69893	28.5	132.62	mg/L	104.4	85	115	1.94	20	

Residue, Filterable (TDS) @180C 160.1 / SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226419													
WG226419PBW	PBW	06/13/07 11:20				U	mg/L		-20	20			
WG226419LCSW	LCSW	06/13/07 11:21	PCN27107	261		296	mg/L	113.4	80	120			
L63119-03DUP	DUP	06/13/07 11:38			60	70	mg/L				15.4	20	RA

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226522													
WG226522ICV	ICV	06/15/07 1:15	II070612-3	100		101.88	mg/L	101.9	95	105			
WG226522ICB	ICB	06/15/07 1:19				U	mg/L		-0.9	0.9			
WG226522LFB	LFB	06/15/07 1:36	II070601-2	98.01954		100.11	mg/L	102.1	85	115			
L63071-02AS	AS	06/15/07 1:44	II070601-2	98.01954	91.3	189.06	mg/L	99.7	85	115			
L63071-02ASD	ASD	06/15/07 1:48	II070601-2	98.01954	91.3	188.61	mg/L	99.3	85	115	0.24	20	

Sulfate 300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG226250													
WG226250ICV	ICV	06/11/07 13:52	IC070606-1	50.15		51.51	mg/L	102.7	90	110			
WG226250ICB	ICB	06/11/07 14:10				U	mg/L		-1.5	1.5			
WG226250ICV1	ICV	06/12/07 14:59	IC070606-1	50.15		51.17	mg/L	102	90	110			
WG226250ICB1	ICB	06/12/07 15:17				U	mg/L		-1.5	1.5			
WG226534													
WG226534ICV	ICV	06/11/07 13:52	IC070606-1	50.15		51.51	mg/L	102.7	90	110			
WG226534ICB	ICB	06/11/07 14:10				U	mg/L		-1.5	1.5			
WG226534ICV1	ICV	06/14/07 16:31	IC070606-1	50.15		51.2	mg/L	102.1	90	110			
WG226534ICB1	ICB	06/14/07 16:49				U	mg/L		-1.5	1.5			
WG226534LFB	LFB	06/14/07 17:07	IC070205-3	30		30.14	mg/L	100.5	90	110			
L63094-01AS	AS	06/14/07 18:20	IC070205-3	30	58.7	85.95	mg/L	90.8	90	110			
WG226534ICV2	ICV	06/18/07 11:10	IC070606-1	50.15		50.97	mg/L	101.6	90	110			
WG226534ICB2	ICB	06/18/07 11:28				U	mg/L		-1.5	1.5			
L63014-01DUP	DUP	06/18/07 12:05			385	385.9	mg/L				0.2	20	

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Phelps Dodge Sierrita

ACZ Project ID: ***L63094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63094-02	WG226522	Magnesium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG226534	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226127	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG226419	Residue, Filterable (TDS) @180C	160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Certification Qualifiers

Phelps Dodge Sierrita

ACZ Project ID: ***L63094***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.

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

Sample Receipt

Phelps Dodge Sierrita
OJ03Z5

ACZ Project ID: L63094
Date Received: 6/7/2007
Received By:
Date Printed: 6/8/2007

Receipt Verification

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

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (If any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
NA3729		2.5	14

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

Notes