



22-Mar-2011

Marla Miller  
Malcolm Pirnie  
211 N Florence Street  
Suite 202  
El Paso, TX 79901

Tel: (602) 797-4699  
Fax: (915) 533-9045

Re: El Paso Smelter

Work Order: **1103221**

Dear Marla,

ALS Environmental received 1 sample on 08-Mar-2011 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 32.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "JayLynn F Thibault".

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault  
Project Manager



Certificate No: TX: T104704231-10-3

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#J UR X S#K VD /# R US##Sdu#k i#kh#DOV#Dde#rudwru|#J urxs#D #F dp eeh#Eurwkhuv#Dp w#g#F rp sdq|

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**Client:** Malcolm Pirnie  
**Project:** El Paso Smelter  
**Work Order:** 1103221

**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1103221-01	QA030711	Water		3/7/2011 07:30	3/8/2011 09:00	<input type="checkbox"/>

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**Client:** Malcolm Pirnie  
**Project:** El Paso Smelter  
**Work Order:** 1103221

**Case Narrative**

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Batch 50882 Metals (sample 1103448-09) MS/MSD unrelated sample.

Batch R106498 Nitrate (sample 1103221-01) MS recovery out of control limits.

Batch R106646 Anions (sample 1103176-12) MS/MSD unrelated sample.

# ALS Environmental

Date: 22-Mar-11

Client: Malcolm Pirnie  
 Project: El Paso Smelter  
 Sample ID: QA030711  
 Collection Date: 3/7/2011 07:30 AM

Work Order: 1103221  
 Lab ID: 1103221-01  
 Matrix: WATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
<b>DISSOLVED MERCURY</b>			Method: SW7470		Prep: SW7470 / 3/11/11		Analyst: <b>JCJ</b>
Mercury	0.0000590	J	0.000042	0.000200	mg/L	1	3/11/2011 16:50
<b>MERCURY</b>			Method: SW7470		Prep: SW7470 / 3/14/11		Analyst: <b>JCJ</b>
Mercury	0.0000920	J	0.000042	0.000200	mg/L	1	3/14/2011 20:34
<b>DISSOLVED METALS</b>			Method: SW6020		Prep: SW3010A / 3/18/11		Analyst: <b>ALR</b>
Antimony	0.0433		0.00050	0.00500	mg/L	1	3/22/2011 02:29
Arsenic	1.46		0.00090	0.00500	mg/L	1	3/22/2011 02:29
Barium	0.0424		0.00070	0.00500	mg/L	1	3/22/2011 02:29
Cadmium	U		0.00060	0.00200	mg/L	1	3/22/2011 02:29
Chromium	0.00188	J	0.00060	0.00500	mg/L	1	3/22/2011 02:29
Cobalt	U		0.00050	0.00500	mg/L	1	3/22/2011 02:29
Copper	0.00146	J	0.00050	0.00500	mg/L	1	3/22/2011 02:29
Iron	U		0.036	0.200	mg/L	1	3/22/2011 02:29
Lead	U		0.00040	0.00500	mg/L	1	3/22/2011 02:29
Molybdenum	0.637		0.00060	0.00500	mg/L	1	3/22/2011 02:29
Nickel	U		0.0014	0.00500	mg/L	1	3/22/2011 02:29
Selenium	0.194		0.0025	0.00500	mg/L	1	3/22/2011 02:29
Thallium	0.0174		0.00080	0.00200	mg/L	1	3/22/2011 02:29
Zinc	0.00368	J	0.0025	0.00500	mg/L	1	3/22/2011 02:29
<b>METALS</b>			Method: SW6020		Prep: SW3010A / 3/17/11		Analyst: <b>ALR</b>
Aluminum	0.0310		0.0037	0.0100	mg/L	1	3/18/2011 19:39
Antimony	0.0422		0.00050	0.00500	mg/L	1	3/18/2011 19:39
Arsenic	1.39		0.00090	0.00500	mg/L	1	3/18/2011 19:39
Barium	0.0400		0.00070	0.00500	mg/L	1	3/18/2011 19:39
Cadmium	U		0.00060	0.00200	mg/L	1	3/18/2011 19:39
Calcium	148		0.050	0.500	mg/L	1	3/18/2011 19:39
Chromium	0.00241	J	0.00060	0.00500	mg/L	1	3/18/2011 19:39
Cobalt	U		0.00050	0.00500	mg/L	1	3/18/2011 19:39
Copper	0.00187	J	0.00050	0.00500	mg/L	1	3/18/2011 19:39
Iron	U		0.036	0.200	mg/L	1	3/18/2011 19:39
Lead	0.000691	J	0.00040	0.00500	mg/L	1	3/18/2011 19:39
Magnesium	65.5		0.039	0.200	mg/L	1	3/18/2011 19:39
Manganese	0.00178	J	0.00080	0.00500	mg/L	1	3/18/2011 19:39
Molybdenum	0.637		0.00060	0.00500	mg/L	1	3/18/2011 19:39
Nickel	U		0.0014	0.00500	mg/L	1	3/18/2011 19:39
Potassium	30.8		0.10	0.200	mg/L	1	3/18/2011 19:39
Selenium	0.174		0.0025	0.00500	mg/L	1	3/18/2011 19:39
Sodium	741		10	20.0	mg/L	100	3/21/2011 16:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

**ALS Environmental**

Date: 22-Mar-11

Client: Malcolm Pirnie  
 Project: El Paso Smelter  
 Sample ID: QA030711  
 Collection Date: 3/7/2011 07:30 AM

Work Order: 1103221  
 Lab ID: 1103221-01  
 Matrix: WATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
Thallium	0.0158		0.00080	0.00200	mg/L	1	3/18/2011 19:39
Zinc	0.0165		0.0025	0.00500	mg/L	1	3/18/2011 19:39
<b>ANIONS</b>		Method: E300				Analyst: TDW	
Chloride	266		10.0	25.0	mg/L	50	3/10/2011 13:27
Fluoride	2.44		0.0500	0.100	mg/L	1	3/8/2011 17:01
Nitrogen, Nitrate (As N)	9.84		0.0300	0.100	mg/L	1	3/8/2011 17:01
Nitrogen, Nitrite (As N)	U		0.0300	0.100	mg/L	1	3/8/2011 17:01
Sulfate	974		25.0	25.0	mg/L	50	3/10/2011 13:27
Nitrate/Nitrite (as N)	9.84		0.0300	0.100	mg/L	1	3/8/2011 17:01
Surr: Selenate (surr)	107			85-115	%REC	1	3/8/2011 17:01
Surr: Selenate (surr)	106			85-115	%REC	50	3/10/2011 13:27
<b>ALKALINITY</b>		Method: SM2320B				Analyst: DM	
Alkalinity, Total (As CaCO3)	367		2.0	5.00	mg/L	1	3/18/2011 13:00
<b>SULFIDE</b>		Method: SM4500 S2-F				Analyst: JKP	
Sulfide	U		0.50	1.00	mg/L	1	3/14/2011 11:00
<b>TOTAL DISSOLVED SOLIDS</b>		Method: M2540C				Analyst: JKP	
Total Dissolved Solids (Residue, Filterable)	2,690		5.0	10.0	mg/L	1	3/10/2011 11:00
<b>TOTAL ORGANIC CARBON</b>		Method: SM5310C				Analyst: JKP	
Organic Carbon, Total	3.27		0.10	0.500	mg/L	1	3/13/2011 00:14
<b>TOTAL SUSPENDED SOLIDS</b>		Method: M2540D				Analyst: JKP	
Suspended Solids (Residue, Non-Filterable)	2.00		2.00	2.00	mg/L	1	3/10/2011 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Work Order: 1103221  
 Client: Malcolm Pirnie  
 Project: El Paso Smelter

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b><u>Batch ID 50736</u></b> <b><u>Test Name: Dissolved Mercury</u></b>						
1103221-01B	QA030711	Water	3/7/2011 7:30:00 AM		3/11/2011 10:37 AM	3/11/2011 04:50 PM
<b><u>Batch ID 50786</u></b> <b><u>Test Name: Mercury</u></b>						
1103221-01A	QA030711	Water	3/7/2011 7:30:00 AM		3/14/2011 01:57 PM	3/14/2011 08:34 PM
<b><u>Batch ID 50882</u></b> <b><u>Test Name: Metals</u></b>						
1103221-01A	QA030711	Water	3/7/2011 7:30:00 AM		3/17/2011 03:00 PM	3/18/2011 07:39 PM
					3/17/2011 03:00 PM	3/21/2011 04:33 PM
<b><u>Batch ID 50927</u></b> <b><u>Test Name: Dissolved Metals</u></b>						
1103221-01B	QA030711	Water	3/7/2011 7:30:00 AM		3/18/2011 09:00 PM	3/22/2011 02:29 AM
<b><u>Batch ID R106498</u></b> <b><u>Test Name: Anions</u></b>						
1103221-01C	QA030711	Water	3/7/2011 7:30:00 AM			3/8/2011 05:01 PM
<b><u>Batch ID R106635</u></b> <b><u>Test Name: Total Suspended Solids</u></b>						
1103221-01C	QA030711	Water	3/7/2011 7:30:00 AM			3/10/2011 12:00 PM
<b><u>Batch ID R106646</u></b> <b><u>Test Name: Anions</u></b>						
1103221-01C	QA030711	Water	3/7/2011 7:30:00 AM			3/10/2011 01:27 PM
<b><u>Batch ID R106677</u></b> <b><u>Test Name: Total Dissolved Solids</u></b>						
1103221-01C	QA030711	Water	3/7/2011 7:30:00 AM			3/10/2011 11:00 AM
<b><u>Batch ID R106735</u></b> <b><u>Test Name: Total Organic Carbon</u></b>						
1103221-01D	QA030711	Water	3/7/2011 7:30:00 AM			3/13/2011 12:14 AM

Work Order: 1103221  
Client: Malcolm Pirnie  
Project: El Paso Smelter

**DATES REPORT**

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<b>Batch ID</b> <u>R106866</u> <b>Test Name:</b> <u>Sulfide</u>						
1103221-01E	QA030711	Water	3/7/2011 7:30:00 AM			3/14/2011 11:00 AM
<b>Batch ID</b> <u>R107026</u> <b>Test Name:</b> <u>Alkalinity</u>						
1103221-01C	QA030711	Water	3/7/2011 7:30:00 AM			3/18/2011 01:00 PM

ALS Environmental

Date: 22-Mar-11

Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

**QC BATCH REPORT**

Batch ID: **50736** Instrument ID **Mercury** Method: **SW7470** (Dissolve)

<b>MBLK</b>	Sample ID: <b>GBLKW2-031111-50736</b>			Units: <b>mg/L</b>	Analysis Date: <b>3/11/2011 04:46 PM</b>					
Client ID:	Run ID: <b>MERCURY_110311A</b>			SeqNo: <b>2309539</b>	Prep Date: <b>3/11/2011</b>		DF: <b>1</b>			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

<b>LCS</b>	Sample ID: <b>GLCSW2-031111-50736</b>			Units: <b>mg/L</b>	Analysis Date: <b>3/11/2011 04:48 PM</b>					
Client ID:	Run ID: <b>MERCURY_110311A</b>			SeqNo: <b>2309540</b>	Prep Date: <b>3/11/2011</b>		DF: <b>1</b>			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00455	0.00020	0.005	0	91	80-120	0			

<b>MS</b>	Sample ID: <b>1103221-01BMS</b>			Units: <b>mg/L</b>	Analysis Date: <b>3/11/2011 04:54 PM</b>					
Client ID: <b>QA030711</b>	Run ID: <b>MERCURY_110311A</b>			SeqNo: <b>2309543</b>	Prep Date: <b>3/11/2011</b>		DF: <b>1</b>			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00455	0.00020	0.005	0.000059	89.8	80-120	0			

<b>MSD</b>	Sample ID: <b>1103221-01BMSD</b>			Units: <b>mg/L</b>	Analysis Date: <b>3/11/2011 04:56 PM</b>					
Client ID: <b>QA030711</b>	Run ID: <b>MERCURY_110311A</b>			SeqNo: <b>2309544</b>	Prep Date: <b>3/11/2011</b>		DF: <b>1</b>			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00467	0.00020	0.005	0.000059	92.2	80-120	0.00455	2.6	20	

<b>DUP</b>	Sample ID: <b>1103221-01BDUP</b>			Units: <b>mg/L</b>	Analysis Date: <b>3/11/2011 04:52 PM</b>					
Client ID: <b>QA030711</b>	Run ID: <b>MERCURY_110311A</b>			SeqNo: <b>2309542</b>	Prep Date: <b>3/11/2011</b>		DF: <b>1</b>			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00006	0.00020	0	0	0	-0 0	0.000059	0	20	J

The following samples were analyzed in this batch: 1103221-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

# QC BATCH REPORT

Batch ID: **50786** Instrument ID **Mercury** Method: **SW7470**

MBLK	Sample ID: <b>GBLKW3-031411-50786</b>					Units: <b>mg/L</b>	Analysis Date: <b>3/14/2011 07:41 PM</b>			
Client ID:		Run ID: <b>MERCURY_110314A</b>			SeqNo: <b>2311934</b>	Prep Date: <b>3/14/2011</b>	DF: <b>1</b>			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020								

LCS	Sample ID: <b>GLCSW3-031411-50786</b>					Units: <b>mg/L</b>	Analysis Date: <b>3/14/2011 07:43 PM</b>			
Client ID:		Run ID: <b>MERCURY_110314A</b>			SeqNo: <b>2311935</b>	Prep Date: <b>3/14/2011</b>	DF: <b>1</b>			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00517	0.00020	0.005	0	103	85-115	0			

MS	Sample ID: <b>1103355-02BMS</b>					Units: <b>mg/L</b>	Analysis Date: <b>3/14/2011 07:49 PM</b>			
Client ID:		Run ID: <b>MERCURY_110314A</b>			SeqNo: <b>2311938</b>	Prep Date: <b>3/14/2011</b>	DF: <b>1</b>			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00516	0.00020	0.005	0.000009	103	85-115	0			

MSD	Sample ID: <b>1103355-02BMSD</b>					Units: <b>mg/L</b>	Analysis Date: <b>3/14/2011 07:51 PM</b>			
Client ID:		Run ID: <b>MERCURY_110314A</b>			SeqNo: <b>2311939</b>	Prep Date: <b>3/14/2011</b>	DF: <b>1</b>			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00515	0.00020	0.005	0.000009	103	85-115	0.00516	0.194	20	

DUP	Sample ID: <b>1103355-02BDUP</b>					Units: <b>mg/L</b>	Analysis Date: <b>3/14/2011 07:47 PM</b>			
Client ID:		Run ID: <b>MERCURY_110314A</b>			SeqNo: <b>2311937</b>	Prep Date: <b>3/14/2011</b>	DF: <b>1</b>			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00020	0	0	0	-0 0	0.000009	0	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

# QC BATCH REPORT

Batch ID: **50882**      Instrument ID **ICPMS03**      Method: **SW6020**

**MBLK**      Sample ID: **MBLKW1-031711-50882**      Units: **mg/L**      Analysis Date: **3/17/2011 02:46 PM**

Client ID:      Run ID: **ICPMS03\_110317A**      SeqNo: **2316294**      Prep Date: **3/17/2011**      DF: **1**

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.006805	0.010								J
Antimony	U	0.0050								
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Calcium	U	0.50								
Chromium	U	0.0050								
Cobalt	U	0.0050								
Copper	U	0.0050								
Iron	U	0.20								
Lead	U	0.0050								
Magnesium	U	0.20								
Manganese	0.002377	0.0050								J
Molybdenum	U	0.0050								
Nickel	U	0.0050								
Potassium	U	0.20								
Selenium	U	0.0050								
Sodium	U	0.20								
Thallium	U	0.0020								
Zinc	U	0.0050								

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

## QC BATCH REPORT

Batch ID: **50882**      Instrument ID **ICPMS03**      Method: **SW6020**

LCS		Sample ID: <b>MLCSW1-031711-50882</b>			Units: <b>mg/L</b>		Analysis Date: <b>3/17/2011 04:04 PM</b>			
Client ID:		Run ID: <b>ICPMS03_110317A</b>			SeqNo: <b>2316351</b>		Prep Date: <b>3/17/2011</b>		DF: <b>1</b>	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09413	0.010	0.1	0	94.1	80-120	0			
Antimony	0.048	0.0050	0.05	0	96	80-120	0			
Arsenic	0.04914	0.0050	0.05	0	98.3	80-120	0			
Barium	0.04839	0.0050	0.05	0	96.8	80-120	0			
Cadmium	0.048	0.0020	0.05	0	96	80-120	0			
Calcium	4.801	0.50	5	0	96	80-120	0			
Chromium	0.04751	0.0050	0.05	0	95	80-120	0			
Cobalt	0.04796	0.0050	0.05	0	95.9	80-120	0			
Copper	0.04845	0.0050	0.05	0	96.9	80-120	0			
Iron	4.707	0.20	5	0	94.1	80-120	0			
Lead	0.04828	0.0050	0.05	0	96.6	80-120	0			
Magnesium	4.778	0.20	5	0	95.6	80-120	0			
Manganese	0.04875	0.0050	0.05	0	97.5	80-120	0			
Molybdenum	0.04561	0.0050	0.05	0	91.2	80-120	0			
Nickel	0.04811	0.0050	0.05	0	96.2	80-120	0			
Potassium	4.654	0.20	5	0	93.1	80-120	0			
Selenium	0.04927	0.0050	0.05	0	98.5	80-120	0			
Sodium	4.78	0.20	5	0	95.6	80-120	0			
Thallium	0.04981	0.0020	0.05	0	99.6	80-120	0			
Zinc	0.05237	0.0050	0.05	0	105	80-120	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

# QC BATCH REPORT

Batch ID: **50882**      Instrument ID **ICPMS03**      Method: **SW6020**

**MS**      Sample ID: **1103448-09BMS**      Units: **mg/L**      Analysis Date: **3/17/2011 03:38 PM**

Client ID:      Run ID: **ICPMS03\_110317A**      SeqNo: **2316304**      Prep Date: **3/17/2011**      DF: **1**

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1183	0.010	0.1	0.0173	101	80-120	0			
Antimony	0.04852	0.0050	0.05	0.0005627	95.9	80-120	0			
Arsenic	0.04877	0.0050	0.05	0.0001134	97.3	80-120	0			
Barium	0.04989	0.0050	0.05	0.0009804	97.8	80-120	0			
Cadmium	0.04868	0.0020	0.05	0.00007066	97.2	80-120	0			
Calcium	5.495	0.50	5	0.5168	99.6	80-120	0			
Chromium	0.05118	0.0050	0.05	0.0003406	102	80-120	0			
Cobalt	0.04914	0.0050	0.05	-5.261E-05	98.4	80-120	0			
Copper	0.05103	0.0050	0.05	0.001571	98.9	80-120	0			
Iron	4.762	0.20	5	0.01915	94.9	80-120	0			
Lead	0.05035	0.0050	0.05	0.001092	98.5	80-120	0			
Magnesium	5.109	0.20	5	0.1275	99.6	80-120	0			
Manganese	0.04958	0.0050	0.05	0.004259	90.6	80-120	0			
Molybdenum	0.04692	0.0050	0.05	0.0002797	93.3	80-120	0			
Nickel	0.05016	0.0050	0.05	0.001121	98.1	80-120	0			
Potassium	6.5	0.20	5	1.599	98	80-120	0			
Selenium	0.04945	0.0050	0.05	0.0001361	98.6	80-120	0			
Sodium	6.314	0.20	5	1.358	99.1	80-120	0			
Thallium	0.04974	0.0020	0.05	0.0004352	98.6	80-120	0			
Zinc	0.06356	0.0050	0.05	0.02535	76.4	80-120	0			S

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

# QC BATCH REPORT

Batch ID: **50882**      Instrument ID **ICPMS03**      Method: **SW6020**

MSD		Sample ID: <b>1103448-09BMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/17/2011 03:43 PM</b>		
Client ID:		Run ID: <b>ICPMS03_110317A</b>				SeqNo: <b>2316305</b>		Prep Date: <b>3/17/2011</b>		DF: <b>1</b>
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1225	0.010	0.1	0.0173	105	80-120	0.1183	3.49	15	
Antimony	0.05004	0.0050	0.05	0.0005627	99	80-120	0.04852	3.08	15	
Arsenic	0.04983	0.0050	0.05	0.0001134	99.4	80-120	0.04877	2.15	15	
Barium	0.05166	0.0050	0.05	0.0009804	101	80-120	0.04989	3.49	15	
Cadmium	0.04909	0.0020	0.05	0.00007066	98	80-120	0.04868	0.839	15	
Calcium	5.621	0.50	5	0.5168	102	80-120	5.495	2.27	15	
Chromium	0.04957	0.0050	0.05	0.0003406	98.5	80-120	0.05118	3.2	15	
Cobalt	0.04963	0.0050	0.05	-5.261E-05	99.4	80-120	0.04914	0.992	15	
Copper	0.05191	0.0050	0.05	0.001571	101	80-120	0.05103	1.71	15	
Iron	4.86	0.20	5	0.01915	96.8	80-120	4.762	2.04	15	
Lead	0.05033	0.0050	0.05	0.001092	98.5	80-120	0.05035	0.0397	15	
Magnesium	5.126	0.20	5	0.1275	100	80-120	5.109	0.332	15	
Manganese	0.0511	0.0050	0.05	0.004259	93.7	80-120	0.04958	3.02	15	
Molybdenum	0.04713	0.0050	0.05	0.0002797	93.7	80-120	0.04692	0.447	15	
Nickel	0.052	0.0050	0.05	0.001121	102	80-120	0.05016	3.6	15	
Potassium	6.514	0.20	5	1.599	98.3	80-120	6.5	0.215	15	
Selenium	0.05226	0.0050	0.05	0.0001361	104	80-120	0.04945	5.53	15	
Sodium	6.32	0.20	5	1.358	99.2	80-120	6.314	0.095	15	
Thallium	0.05009	0.0020	0.05	0.0004352	99.3	80-120	0.04974	0.701	15	
Zinc	0.06938	0.0050	0.05	0.02535	88.1	80-120	0.06356	8.76	15	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

# QC BATCH REPORT

Batch ID: 50882 Instrument ID ICPMS03 Method: SW6020

DUP	Sample ID: 1103448-09BDUP	Units: mg/L					Analysis Date: 3/17/2011 03:28 PM				
Client ID:	Run ID: ICPMS03_110317A	SeqNo: 2316302			Prep Date: 3/17/2011		DF: 1				
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.01961	0.010	0	0	0	-0 0	0.0173	12.5	25		
Antimony	0.0005804	0.0050	0	0	0	-0 0	0.0005627	0	25	J	
Arsenic	U	0.0050	0	0	0	-0 0	0.0001134	0	25		
Barium	0.0009481	0.0050	0	0	0	-0 0	0.0009804	0	25	J	
Cadmium	U	0.0020	0	0	0	-0 0	0.00007066	0	25		
Calcium	0.591	0.50	0	0	0	-0 0	0.5168	13.4	25		
Chromium	U	0.0050	0	0	0	-0 0	0.0003406	0	25		
Cobalt	U	0.0050	0	0	0	-0 0	-5.261E-05	0	25		
Copper	0.001618	0.0050	0	0	0	-0 0	0.001571	0	25	J	
Iron	U	0.20	0	0	0	-0 0	0.01915	0	25		
Lead	0.001128	0.0050	0	0	0	-0 0	0.001092	0	25	J	
Magnesium	0.1317	0.20	0	0	0	-0 0	0.1275	0	25	J	
Manganese	0.003013	0.0050	0	0	0	-0 0	0.004259	0	25	J	
Molybdenum	U	0.0050	0	0	0	-0 0	0.0002797	0	25		
Nickel	U	0.0050	0	0	0	-0 0	0.001121	0	25		
Potassium	1.635	0.20	0	0	0	-0 0	1.599	2.23	25		
Selenium	U	0.0050	0	0	0	-0 0	0.0001361	0	25		
Sodium	1.38	0.20	0	0	0	-0 0	1.358	1.61	25		
Thallium	U	0.0020	0	0	0	-0 0	0.0004352	0	25		
Zinc	0.02568	0.0050	0	0	0	-0 0	0.02535	1.29	25		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

# QC BATCH REPORT

Batch ID: **50882**      Instrument ID **ICPMS03**      Method: **SW6020**

PDS		Sample ID: <b>1103448-09BBS</b>			Units: <b>mg/L</b>		Analysis Date: <b>3/17/2011 03:49 PM</b>			
Client ID:		Run ID: <b>ICPMS03_110317A</b>			SeqNo: <b>2316348</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.106	0.010	0.1	0.0173	88.7	75-125	0			
Antimony	0.09588	0.0050	0.1	0.0005627	95.3	75-125	0			
Arsenic	0.09661	0.0050	0.1	0.0001134	96.5	75-125	0			
Barium	0.09677	0.0050	0.1	0.0009804	95.8	75-125	0			
Cadmium	0.09368	0.0020	0.1	0.00007066	93.6	75-125	0			
Calcium	10.08	0.50	10	0.5168	95.6	75-125	0			
Chromium	0.09554	0.0050	0.1	0.0003406	95.2	75-125	0			
Cobalt	0.09524	0.0050	0.1	-5.261E-05	95.3	75-125	0			
Copper	0.09744	0.0050	0.1	0.001571	95.9	75-125	0			
Iron	9.367	0.20	10	0.01915	93.5	75-125	0			
Lead	0.09486	0.0050	0.1	0.001092	93.8	75-125	0			
Magnesium	9.558	0.20	10	0.1275	94.3	75-125	0			
Manganese	0.09909	0.0050	0.1	0.004259	94.8	75-125	0			
Molybdenum	0.0906	0.0050	0.1	0.0002797	90.3	75-125	0			
Nickel	0.09684	0.0050	0.1	0.001121	95.7	75-125	0			
Potassium	10.8	0.20	10	1.599	92	75-125	0			
Selenium	0.1001	0.0050	0.1	0.0001361	100	75-125	0			
Sodium	10.65	0.20	10	1.358	92.9	75-125	0			
Thallium	0.09917	0.0020	0.1	0.0004352	98.7	75-125	0			
Zinc	0.1173	0.0050	0.1	0.02535	92	75-125	0			

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

# QC BATCH REPORT

Batch ID: **50882**      Instrument ID **ICPMS03**      Method: **SW6020**

SD	Sample ID: <b>1103448-09B DIL SX</b>			Units: <b>mg/L</b>			Analysis Date: <b>3/17/2011 03:33 PM</b>			
Client ID:	Run ID: <b>ICPMS03_110317A</b>			SeqNo: <b>2316303</b>		Prep Date:		DF: <b>5</b>		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.01894	0.050	0	0	0	-0 0	0.0173	0	10	J
Antimony	U	0.025	0	0	0	-0 0	0.0005627	0	10	
Arsenic	U	0.025	0	0	0	-0 0	0.0001134	0	10	
Barium	U	0.025	0	0	0	-0 0	0.0009804	0	10	
Cadmium	U	0.010	0	0	0	-0 0	0.00007066	0	10	
Calcium	0.3043	2.5	0	0	0	-0 0	0.5168	0	10	J
Chromium	U	0.025	0	0	0	-0 0	0.0003406	0	10	
Cobalt	U	0.025	0	0	0	-0 0	-5.261E-05	0	10	
Copper	U	0.025	0	0	0	-0 0	0.001571	0	10	
Iron	U	1.0	0	0	0	-0 0	0.01915	0	10	
Lead	U	0.025	0	0	0	-0 0	0.001092	0	10	
Magnesium	U	1.0	0	0	0	-0 0	0.1275	0	10	
Manganese	U	0.025	0	0	0	-0 0	0.004259	0	10	
Molybdenum	U	0.025	0	0	0	-0 0	0.0002797	0	10	
Nickel	U	0.025	0	0	0	-0 0	0.001121	0	10	
Potassium	1.462	1.0	0	0	0	-0 0	1.599	8.54	10	
Selenium	U	0.025	0	0	0	-0 0	0.0001361	0	10	
Sodium	1.334	1.0	0	0	0	-0 0	1.358	1.8	10	
Thallium	U	0.010	0	0	0	-0 0	0.0004352	0	10	
Zinc	0.02304	0.025	0	0	0	-0 0	0.02535	9.11	10	J

The following samples were analyzed in this batch:      | 1103221-01A      |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

# QC BATCH REPORT

Batch ID: **50927** Instrument ID **ICPMS03** Method: **SW6020 (Dissolve)**

**MBLK** Sample ID: **MBLKW3-031811-50927** Units: **mg/L** Analysis Date: **3/21/2011 11:26 PM**

Client ID: Run ID: **ICPMS03\_110321A** SeqNo: **2319820** Prep Date: **3/18/2011** DF: **1**

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0050								
Arsenic	U	0.0050								
Barium	U	0.0050								
Cadmium	U	0.0020								
Chromium	U	0.0050								
Cobalt	U	0.0050								
Copper	U	0.0050								
Iron	U	0.20								
Lead	U	0.0050								
Molybdenum	U	0.0050								
Nickel	U	0.0050								
Selenium	U	0.0050								
Thallium	U	0.0020								
Zinc	0.00297	0.0050								J

**LCS** Sample ID: **MLCSW3-031811-50927** Units: **mg/L** Analysis Date: **3/21/2011 11:31 PM**

Client ID: Run ID: **ICPMS03\_110321A** SeqNo: **2319821** Prep Date: **3/18/2011** DF: **1**

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05055	0.0050	0.05	0	101	80-120	0			
Arsenic	0.05233	0.0050	0.05	0	105	80-120	0			
Barium	0.05196	0.0050	0.05	0	104	80-120	0			
Cadmium	0.05236	0.0020	0.05	0	105	80-120	0			
Chromium	0.05089	0.0050	0.05	0	102	80-120	0			
Cobalt	0.05095	0.0050	0.05	0	102	80-120	0			
Copper	0.05063	0.0050	0.05	0	101	80-120	0			
Iron	4.967	0.20	5	0	99.3	80-120	0			
Lead	0.05028	0.0050	0.05	0	101	80-120	0			
Molybdenum	0.04883	0.0050	0.05	0	97.7	80-120	0			
Nickel	0.05203	0.0050	0.05	0	104	80-120	0			
Selenium	0.05104	0.0050	0.05	0	102	80-120	0			
Thallium	0.04978	0.0020	0.05	0	99.6	80-120	0			
Zinc	0.05386	0.0050	0.05	0	108	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

# QC BATCH REPORT

Batch ID: 50927 Instrument ID ICPMS03 Method: SW6020 (Dissolve)

MS Sample ID: 1103158-08FMS Units: mg/L Analysis Date: 3/21/2011 11:52 PM

Client ID: Run ID: ICPMS03\_110321A SeqNo: 2319826 Prep Date: 3/18/2011 DF: 1

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04962	0.0050	0.05	0.0001582	98.9	75-125	0			
Arsenic	0.05406	0.0050	0.05	0.0004655	107	75-125	0			
Barium	0.08368	0.0050	0.05	0.02928	109	75-125	0			
Cadmium	0.05356	0.0020	0.05	-0.0001418	107	75-125	0			
Chromium	0.05211	0.0050	0.05	0.000941	102	75-125	0			
Cobalt	0.05041	0.0050	0.05	0.0004065	100	75-125	0			
Copper	0.07352	0.0050	0.05	0.02499	97.1	75-125	0			
Iron	4.941	0.20	5	-0.03432	99.5	75-125	0			
Lead	0.05255	0.0050	0.05	0.0001914	105	75-125	0			
Molybdenum	0.05378	0.0050	0.05	0.003973	99.6	75-125	0			
Nickel	0.06942	0.0050	0.05	0.01963	99.6	75-125	0			
Selenium	0.0547	0.0050	0.05	0.0008977	108	75-125	0			
Thallium	0.05145	0.0020	0.05	0.00009279	103	75-125	0			
Zinc	0.05415	0.0050	0.05	0.003462	101	75-125	0			

MSD Sample ID: 1103158-08FMSD Units: mg/L Analysis Date: 3/21/2011 11:57 PM

Client ID: Run ID: ICPMS03\_110321A SeqNo: 2319827 Prep Date: 3/18/2011 DF: 1

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05183	0.0050	0.05	0.0001582	103	75-125	0.04962	4.36	25	
Arsenic	0.05519	0.0050	0.05	0.0004655	109	75-125	0.05406	2.07	25	
Barium	0.08216	0.0050	0.05	0.02928	106	75-125	0.08368	1.83	25	
Cadmium	0.05285	0.0020	0.05	-0.0001418	106	75-125	0.05356	1.33	25	
Chromium	0.05226	0.0050	0.05	0.000941	103	75-125	0.05211	0.287	25	
Cobalt	0.05153	0.0050	0.05	0.0004065	102	75-125	0.05041	2.2	25	
Copper	0.07599	0.0050	0.05	0.02499	102	75-125	0.07352	3.3	25	
Iron	5.074	0.20	5	-0.03432	102	75-125	4.941	2.66	25	
Lead	0.05223	0.0050	0.05	0.0001914	104	75-125	0.05255	0.611	25	
Molybdenum	0.05345	0.0050	0.05	0.003973	99	75-125	0.05378	0.615	25	
Nickel	0.07111	0.0050	0.05	0.01963	103	75-125	0.06942	2.41	25	
Selenium	0.05545	0.0050	0.05	0.0008977	109	75-125	0.0547	1.36	25	
Thallium	0.0523	0.0020	0.05	0.00009279	104	75-125	0.05145	1.64	25	
Zinc	0.05703	0.0050	0.05	0.003462	107	75-125	0.05415	5.18	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

# QC BATCH REPORT

Batch ID: 50927 Instrument ID ICPMS03 Method: SW6020 (Dissolve)

DUP Sample ID: 1103158-08FDUP Units: mg/L Analysis Date: 3/21/2011 11:41 PM

Client ID: Run ID: ICPMS03\_110321A SeqNo: 2319824 Prep Date: 3/18/2011 DF: 1

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0050	0	0	0	-0 0	0.0001582	0	25	
Arsenic	U	0.0050	0	0	0	-0 0	0.0004655	0	25	
Barium	0.02776	0.0050	0	0	0	-0 0	0.02928	5.33	25	
Cadmium	U	0.0020	0	0	0	-0 0	-0.0001418	0	25	
Chromium	U	0.0050	0	0	0	-0 0	0.000941	0	25	
Cobalt	U	0.0050	0	0	0	-0 0	0.0004065	0	25	
Copper	0.02411	0.0050	0	0	0	-0 0	0.02499	3.58	25	
Iron	U	0.20	0	0	0	-0 0	-0.03432	0	25	
Lead	U	0.0050	0	0	0	-0 0	0.0001914	0	25	
Molybdenum	0.003777	0.0050	0	0	0	-0 0	0.003973	0	25	J
Nickel	0.0186	0.0050	0	0	0	-0 0	0.01963	5.39	25	
Selenium	U	0.0050	0	0	0	-0 0	0.0008977	0	25	
Thallium	U	0.0020	0	0	0	-0 0	0.00009279	0	25	
Zinc	U	0.0050	0	0	0	-0 0	0.003462	0	25	

PDS Sample ID: 1103158-08FBS Units: mg/L Analysis Date: 3/22/2011 12:02 AM

Client ID: Run ID: ICPMS03\_110321A SeqNo: 2319828 Prep Date: DF: 1

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09723	0.0050	0.1	0.0001582	97.1	75-125	0			
Arsenic	0.103	0.0050	0.1	0.0004655	103	75-125	0			
Barium	0.1275	0.0050	0.1	0.02928	98.2	75-125	0			
Cadmium	0.09991	0.0020	0.1	-0.0001418	100	75-125	0			
Chromium	0.09726	0.0050	0.1	0.000941	96.3	75-125	0			
Cobalt	0.09465	0.0050	0.1	0.0004065	94.2	75-125	0			
Copper	0.1169	0.0050	0.1	0.02499	91.9	75-125	0			
Iron	9.352	0.20	10	-0.03432	93.9	75-125	0			
Lead	0.09646	0.0050	0.1	0.0001914	96.3	75-125	0			
Molybdenum	0.09706	0.0050	0.1	0.003973	93.1	75-125	0			
Nickel	0.1127	0.0050	0.1	0.01963	93.1	75-125	0			
Selenium	0.1059	0.0050	0.1	0.0008977	105	75-125	0			
Thallium	0.1005	0.0020	0.1	0.00009279	100	75-125	0			
Zinc	0.1013	0.0050	0.1	0.003462	97.8	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

# QC BATCH REPORT

Batch ID: **50927**      Instrument ID **ICPMS03**      Method: **SW6020**      **(Dissolve)**

**SD**      Sample ID: **1103158-08F DIL SX**      Units: **mg/L**      Analysis Date: **3/21/2011 11:46 PM**

Client ID:      Run ID: **ICPMS03\_110321A**      SeqNo: **2319825**      Prep Date:      DF: **5**

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	U	0.025	0	0	0	-0 0	0.0001582	0	10	
Arsenic	U	0.025	0	0	0	-0 0	0.0004655	0	10	
Barium	0.02894	0.025	0	0	0	-0 0	0.02928	1.18	10	
Cadmium	U	0.010	0	0	0	-0 0	-0.0001418	0	10	
Chromium	U	0.025	0	0	0	-0 0	0.000941	0	10	
Cobalt	U	0.025	0	0	0	-0 0	0.0004065	0	10	
Copper	0.0232	0.025	0	0	0	-0 0	0.02499	0	10	J
Iron	U	1.0	0	0	0	-0 0	-0.03432	0	10	
Lead	U	0.025	0	0	0	-0 0	0.0001914	0	10	
Molybdenum	0.004809	0.025	0	0	0	-0 0	0.003973	0	10	J
Nickel	0.023	0.025	0	0	0	-0 0	0.01963	0	10	J
Selenium	U	0.025	0	0	0	-0 0	0.0008977	0	10	
Thallium	U	0.010	0	0	0	-0 0	0.00009279	0	10	
Zinc	U	0.025	0	0	0	-0 0	0.003462	0	10	

The following samples were analyzed in this batch:

1103221-01B
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Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

# QC BATCH REPORT

Batch ID: **R106498** Instrument ID **ICS2100** Method: **E300**

**MBLK** Sample ID: **WBLKW1-030711-R106498** Units: **mg/L** Analysis Date: **3/8/2011 11:14 AM**

Client ID: Run ID: **ICS2100\_110308A** SeqNo: **2305137** Prep Date: DF: **1**

Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	U	0.10								
Nitrogen, Nitrate (As N)	U	0.10								
Nitrogen, Nitrite (As N)	U	0.10								
Nitrate/Nitrite (as N)	U	0.10								
<i>Surr: Selenate (surr)</i>	<i>5.041</i>	<i>0.10</i>	<i>5</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>			

**LCS** Sample ID: **WLCSW1-030711-R106498** Units: **mg/L** Analysis Date: **3/8/2011 11:29 AM**

Client ID: Run ID: **ICS2100\_110308A** SeqNo: **2305138** Prep Date: DF: **1**

Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	3.89	0.10	4	0	97.2	90-110	0			
Nitrogen, Nitrate (As N)	3.959	0.10	4	0	99	90-110	0			
Nitrogen, Nitrite (As N)	4.363	0.10	4	0	109	90-110	0			
Nitrate/Nitrite (as N)	8.322	0.10	8	0	104	90-110	0			
<i>Surr: Selenate (surr)</i>	<i>4.921</i>	<i>0.10</i>	<i>5</i>	<i>0</i>	<i>98.4</i>	<i>85-115</i>	<i>0</i>			

**LCSD** Sample ID: **WLCSDW1-030711-R106498** Units: **mg/L** Analysis Date: **3/8/2011 11:43 AM**

Client ID: Run ID: **ICS2100\_110308A** SeqNo: **2305139** Prep Date: DF: **1**

Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	3.903	0.10	4	0	97.6	90-110	3.89	0.334	20	
Nitrogen, Nitrate (As N)	3.96	0.10	4	0	99	90-110	3.959	0.0253	20	
Nitrogen, Nitrite (As N)	4.358	0.10	4	0	109	90-110	4.363	0.115	20	
Nitrate/Nitrite (as N)	8.318	0.10	8	0	104	90-110	8.322	0.0481	20	
<i>Surr: Selenate (surr)</i>	<i>4.924</i>	<i>0.10</i>	<i>5</i>	<i>0</i>	<i>98.5</i>	<i>85-115</i>	<i>4.921</i>	<i>0.0609</i>	<i>20</i>	

**MS** Sample ID: **1103002-01EMS** Units: **mg/L** Analysis Date: **3/8/2011 12:41 PM**

Client ID: Run ID: **ICS2100\_110308A** SeqNo: **2305143** Prep Date: DF: **10**

Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	19.65	1.0	20	1.626	90.1	80-120	0			
Nitrogen, Nitrate (As N)	21.41	1.0	20	3.329	90.4	80-120	0			H
Nitrogen, Nitrite (As N)	20.82	1.0	20	0	104	80-120	0			H
Nitrate/Nitrite (as N)	42.23	1.0	40	3.329	97.2	80-120	0			H
<i>Surr: Selenate (surr)</i>	<i>47.86</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.7</i>	<i>85-115</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

# QC BATCH REPORT

Batch ID: R106498 Instrument ID ICS2100 Method: E300

**MS** Sample ID: 1103221-01CMS Units: mg/L Analysis Date: 3/8/2011 05:16 PM

Client ID: QA030711 Run ID: ICS2100\_110308A SeqNo: 2305188 Prep Date: DF: 1

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.563	0.10	2	2.442	106	80-120	0			
Nitrogen, Nitrate (As N)	12.05	0.10	2	9.838	110	80-120	0			O
Nitrogen, Nitrite (As N)	2.5	0.10	2	0	125	80-120	0			S
Nitrate/Nitrite (as N)	14.55	0.10	4	9.838	118	80-120	0			
Surr: Selenate (surr)	4.604	0.10	5	0	92.1	85-115	0			

**MSD** Sample ID: 1103002-01EMSD Units: mg/L Analysis Date: 3/8/2011 12:56 PM

Client ID: Run ID: ICS2100\_110308A SeqNo: 2305144 Prep Date: DF: 10

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	19.58	1.0	20	1.626	89.8	80-120	19.65	0.372	20	
Nitrogen, Nitrate (As N)	21.17	1.0	20	3.329	89.2	80-120	21.41	1.1	20	H
Nitrogen, Nitrite (As N)	20.68	1.0	20	0	103	80-120	20.82	0.67	20	H
Nitrate/Nitrite (as N)	41.85	1.0	40	3.329	96.3	80-120	42.23	0.89	20	H
Surr: Selenate (surr)	47.72	1.0	50	0	95.4	85-115	47.86	0.293	20	

**MSD** Sample ID: 1103221-01CMSD Units: mg/L Analysis Date: 3/8/2011 05:30 PM

Client ID: QA030711 Run ID: ICS2100\_110308A SeqNo: 2305190 Prep Date: DF: 1

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.397	0.10	2	2.442	97.8	80-120	4.563	3.71	20	
Nitrogen, Nitrate (As N)	11.87	0.10	2	9.838	102	80-120	12.05	1.47	20	O
Nitrogen, Nitrite (As N)	2.249	0.10	2	0	112	80-120	2.5	10.6	20	
Nitrate/Nitrite (as N)	14.12	0.10	4	9.838	107	80-120	14.55	2.98	20	
Surr: Selenate (surr)	4.718	0.10	5	0	94.4	85-115	4.604	2.45	20	

The following samples were analyzed in this batch:

1103221-01C

**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

# QC BATCH REPORT

Batch ID: **R106635**      Instrument ID **BALANCE1**      Method: **M2540D**

MBLK		Sample ID: <b>BLANK-R106635</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/10/2011 12:00 PM</b>		
Client ID:		Run ID: <b>BALANCE1_110310A</b>				SeqNo: <b>2309065</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-F	U	2.0								

LCS		Sample ID: <b>LCS-R106635</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/10/2011 12:00 PM</b>		
Client ID:		Run ID: <b>BALANCE1_110310A</b>				SeqNo: <b>2309066</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-F	88	2.0	100	0	88	78-120	0			

DUP		Sample ID: <b>1103160-02CDUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/10/2011 12:00 PM</b>		
Client ID:		Run ID: <b>BALANCE1_110310A</b>				SeqNo: <b>2309055</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-F	19.33	2.0	0	0	0	0-0	19.33	0	20	

**The following samples were analyzed in this batch:**     

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

# QC BATCH REPORT

Batch ID: **R106646** Instrument ID **ICS3000** Method: **E300**

MBLK		Sample ID: <b>WBLKW1-031011-R106646</b>			Units: <b>mg/L</b>			Analysis Date: <b>3/10/2011 11:42 AM</b>		
Client ID:		Run ID: <b>ICS3000_110310A</b>			SeqNo: <b>2308361</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.50								
Sulfate	U	0.50								
<i>Surr: Selenate (surr)</i>	<i>5.187</i>	<i>0.10</i>	<i>5</i>	<i>0</i>	<i>104</i>	<i>85-115</i>	<i>0</i>			

LCS		Sample ID: <b>WLCSW1-031011-R106646</b>			Units: <b>mg/L</b>			Analysis Date: <b>3/10/2011 12:03 PM</b>		
Client ID:		Run ID: <b>ICS3000_110310A</b>			SeqNo: <b>2308362</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	21.67	0.50	20	0	108	90-110	0			
Sulfate	19.89	0.50	20	0	99.5	90-110	0			
<i>Surr: Selenate (surr)</i>	<i>5.25</i>	<i>0.10</i>	<i>5</i>	<i>0</i>	<i>105</i>	<i>85-115</i>	<i>0</i>			

LCSD		Sample ID: <b>WLCSW1-031011-R106646</b>			Units: <b>mg/L</b>			Analysis Date: <b>3/10/2011 12:24 PM</b>		
Client ID:		Run ID: <b>ICS3000_110310A</b>			SeqNo: <b>2308364</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.68	0.50	20	0	98.4	90-110	21.67	9.65	20	
Sulfate	19.22	0.50	20	0	96.1	90-110	19.89	3.44	20	
<i>Surr: Selenate (surr)</i>	<i>5.201</i>	<i>0.10</i>	<i>5</i>	<i>0</i>	<i>104</i>	<i>85-115</i>	<i>5.25</i>	<i>0.938</i>	<i>20</i>	

MSD		Sample ID: <b>1103176-12AMS</b>			Units: <b>mg/L</b>			Analysis Date: <b>3/10/2011 04:16 PM</b>		
Client ID:		Run ID: <b>ICS3000_110310A</b>			SeqNo: <b>2308379</b>		Prep Date:		DF: <b>10</b>	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1807	5.0	100	1734	73	80-120	0			SEO
Sulfate	15980	5.0	100	0	16000	80-120	0			SE
<i>Surr: Selenate (surr)</i>	<i>50.5</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>			

MSD		Sample ID: <b>1103176-12AMSD</b>			Units: <b>mg/L</b>			Analysis Date: <b>3/10/2011 04:37 PM</b>		
Client ID:		Run ID: <b>ICS3000_110310A</b>			SeqNo: <b>2308380</b>		Prep Date:		DF: <b>10</b>	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1804	5.0	100	1734	70.8	80-120	0			SEO
Sulfate	15960	5.0	100	0	16000	80-120	0			SE
<i>Surr: Selenate (surr)</i>	<i>50.52</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

## QC BATCH REPORT

Batch ID: **R106646**      Instrument ID **ICS3000**      Method: **E300**

MSD		Sample ID: <b>1103162-01CMS</b>			Units: <b>mg/L</b>		Analysis Date: <b>3/10/2011 09:53 PM</b>			
Client ID:		Run ID: <b>ICS3000_110310A</b>			SeqNo: <b>2308395</b>		Prep Date:		DF: <b>10</b>	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	692.5	5.0	100	606.2	86.3	80-120	0			O
Sulfate	430.9	5.0	100	333.5	97.4	80-120	0			
<i>Surr: Selenate (surr)</i>	<i>52.42</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>85-115</i>	<i>0</i>			

MSD		Sample ID: <b>1103162-01CMSD</b>			Units: <b>mg/L</b>		Analysis Date: <b>3/10/2011 10:15 PM</b>			
Client ID:		Run ID: <b>ICS3000_110310A</b>			SeqNo: <b>2308396</b>		Prep Date:		DF: <b>10</b>	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	694.1	5.0	100	606.2	87.9	80-120	0			O
Sulfate	429.6	5.0	100	333.5	96.1	80-120	0			
<i>Surr: Selenate (surr)</i>	<i>52.38</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>85-115</i>	<i>0</i>			

**The following samples were analyzed in this batch:**      1103221-01C

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

## QC BATCH REPORT

Batch ID: **R106677**      Instrument ID **BALANCE1**      Method: **M2540C**

**MBLK**      Sample ID: **BLANK-R106677**      Units: **mg/L**      Analysis Date: **3/10/2011 11:00 AM**

Client ID:      Run ID: **BALANCE1\_110310B**      SeqNo: **2308962**      Prep Date:      DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	U	10								

**LCS**      Sample ID: **LCS-R106677**      Units: **mg/L**      Analysis Date: **3/10/2011 11:00 AM**

Client ID:      Run ID: **BALANCE1\_110310B**      SeqNo: **2308963**      Prep Date:      DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	1070	10	1000		0	107	85-115	0		

**DUP**      Sample ID: **1103148-01EDUP**      Units: **mg/L**      Analysis Date: **3/10/2011 11:00 AM**

Client ID:      Run ID: **BALANCE1\_110310B**      SeqNo: **2308959**      Prep Date:      DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fil	5000	10	0		0	0	0-0	4915	1.71	20

**The following samples were analyzed in this batch:**      1103221-01C

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

# QC BATCH REPORT

Batch ID: R106735 Instrument ID TOC\_W Method: SM5310C

MBLK		Sample ID: WBLKW1-031211-R106735				Units: mg/L		Analysis Date: 3/12/2011 02:37 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310080		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	0.284	0.50								J

LCS		Sample ID: WLCSW1-031211-R106735				Units: mg/L		Analysis Date: 3/12/2011 03:06 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310081		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.074	0.50	10	0	90.7	80-120	0			

LCSD		Sample ID: WLCSDW1-03121-R106735				Units: mg/L		Analysis Date: 3/12/2011 03:35 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310082		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.168	0.50	10	0	91.7	80-120	9.074	1.03	20	

MS		Sample ID: 1103334-01AZMS				Units: mg/L		Analysis Date: 3/12/2011 06:28 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310088		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.99	0.50	10	18.1	88.8	80-120	0			E

MS		Sample ID: 1103192-01DMS				Units: mg/L		Analysis Date: 3/12/2011 10:47 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310097		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	17.11	0.50	10	7.632	94.8	80-120	0			

MSD		Sample ID: 1103334-01AZMSD				Units: mg/L		Analysis Date: 3/12/2011 06:57 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310089		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	27.84	0.50	10	18.1	97.4	80-120	26.99	3.12	20	E

MSD		Sample ID: 1103192-01DMSD				Units: mg/L		Analysis Date: 3/12/2011 11:16 PM		
Client ID:		Run ID: TOC_W_110312B				SeqNo: 2310098		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	16.83	0.50	10	7.632	92	80-120	17.11	1.64	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Malcolm Pirnie  
 Work Order: 1103221  
 Project: El Paso Smelter

# QC BATCH REPORT

Batch ID: **R106866** Instrument ID **WetChem** Method: **SM4500 S2-F**

MBLK		Sample ID: <b>WMB-031411-R106866</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/14/2011 11:00 AM</b>			
Client ID:		Run ID: <b>WETCHEM_110314J</b>				SeqNo: <b>2313034</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sulfide	0.8	1.0								J	

LCS		Sample ID: <b>WLCS-031411-R106866</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/14/2011 11:00 AM</b>			
Client ID:		Run ID: <b>WETCHEM_110314J</b>				SeqNo: <b>2313035</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sulfide	20.6	1.0	25	0	82.4	80-120	0				

LCSD		Sample ID: <b>WLCSD-031411-R106866</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/14/2011 11:00 AM</b>			
Client ID:		Run ID: <b>WETCHEM_110314J</b>				SeqNo: <b>2313040</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sulfide	20.4	1.0	25	0	81.6	80-120	20.6	0.976	20		

DUP		Sample ID: <b>1103221-01EDUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>3/14/2011 11:00 AM</b>			
Client ID: <b>QA030711</b>		Run ID: <b>WETCHEM_110314J</b>				SeqNo: <b>2313067</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sulfide	U	1.0	0	0	0	-0 0	0.4	0	20		

The following samples were analyzed in this batch: 1103221-01E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Malcolm Pirnie  
**Work Order:** 1103221  
**Project:** El Paso Smelter

## QC BATCH REPORT

Batch ID: **R107026**      Instrument ID **WetChem**      Method: **SM2320B**

<b>MBLK</b>	Sample ID: <b>WBLKW1-031811-R107026</b>	Units: <b>mg/L</b>	Analysis Date: <b>3/18/2011 01:00 PM</b>							
Client ID:	Run ID: <b>WETCHEM_110318E</b>	SeqNo: <b>2317283</b>	Prep Date:      DF: <b>1</b>							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	U	5.0								

<b>LCS</b>	Sample ID: <b>WLCSW1-031811-R107026</b>	Units: <b>mg/L</b>	Analysis Date: <b>3/18/2011 01:00 PM</b>							
Client ID:	Run ID: <b>WETCHEM_110318E</b>	SeqNo: <b>2317284</b>	Prep Date:      DF: <b>1</b>							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	992.5	5.0	1000	0	99.2	80-120	0			

<b>DUP</b>	Sample ID: <b>1103223-01CDUP</b>	Units: <b>mg/L</b>	Analysis Date: <b>3/18/2011 01:00 PM</b>							
Client ID:	Run ID: <b>WETCHEM_110318E</b>	SeqNo: <b>2317287</b>	Prep Date:      DF: <b>1</b>							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	405.9	5.0	0	0	0	0-0	404.9	0.244	20	

**The following samples were analyzed in this batch:**      1103221-01C

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

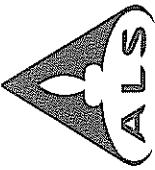
**Client:** Malcolm Pirnie  
**Project:** El Paso Smelter  
**WorkOrder:** 1103221

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter



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**Chain of Custody Form**

Page 1 of 1

**ALS Laboratory Group**  
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 Holland, MI 49424-9263  
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Customer Information		Project Information		ALS Work Order #: 1103221 Parameter/Method Request for Analysis													
Purchase Order	Project Name	El Paso Smelter	A	Total Metals (6020/7000) Al, Ca, Mg, Mn, K, Na, Sb, As, Ba, Cd, Cr													
Work Order	Project Number	6835001	B	Co, Cu, Fe, Pb, Mo, Ni, Se, Ti, Zn, Hg													
Company Name	Bill To Company	Malcolm Pirnie	C	Dissolved Metals (6020/7000) Sb, As, Ba, Cd, Cr, Co, Cu, Fe, Pb													
Send Report To	Invoice Attn	Maria Miller	D	Mo, Ni, Se, Ti, Zn, Hg													
Address	Address	211 N Florence Street Suite 202	E	Anions (300) Cl, F, SO4, NO3, NO2													
City/State/Zip	City/State/Zip	El Paso, TX 79901	G	TSS													
Phone	Phone	(95) 533-9025	H	TDS													
Fax	Fax	(95) 533-9045	I	TOC (5310C)													
e-Mail Address	e-Mail Address		J														
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	QA030711	3-7-11	0730	w		5	X	X	X	X	X	X	X	X			
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:											
SWEET FENGLSON <i>[Signature]</i>		FED EX		<input checked="" type="checkbox"/> Std: 10 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour		<input type="checkbox"/> Other <input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV SW946/CLP <input type="checkbox"/> Other / EDD											
Relinquished by: <i>[Signature]</i>		Date: 3/7/11	Time: 1800	Received by:		Notes: 10 Day TAT											
Relinquished by: <i>[Signature]</i>		Received by (Laboratory): <i>[Signature]</i>		Cooler ID:	Cooler Temp:	QC Package: (Check One Box Below)											
Relinquished by: <i>[Signature]</i>		Checked by (Laboratory): <i>[Signature]</i>				<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV SW946/CLP <input type="checkbox"/> Other / EDD											
Relinquished by: <i>[Signature]</i>		Date: 3/7/11	Time: 1800	Date: 3/7/11	Time: 09:00	Preservative Key: 1-HCl, 2-HNO3, 3-H2SO4, 4-NAOH, 5-Na2S2O4, 6-NAHSO4, 7-Other, 8-4°C, 9-5035											

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.  
 2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.  
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Sample Receipt Checklist

Client Name: MALCOLM PIRNIE-EL PASO

Date/Time Received: 08-Mar-11 09:00

Work Order: 1103221

Received by: SAY

Checklist completed by Parash M. Ciga 08-Mar-11
eSignature Date

Reviewed by: Jay Lynn F Thibault 08-Mar-11
eSignature Date

Matrices: Water

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
Custody seals intact on shipping container/cooler? Yes No Not Present
Custody seals intact on sample bottles? Yes No Not Present
Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Samples in proper container/bottle? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No
All samples received within holding time? Yes No
Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 1.8C 002

Cooler(s)/Kit(s): 3915

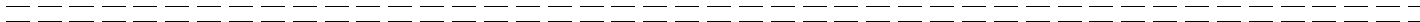
Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: