



07-Mar-2012

Marla Miller
ARCADIS U.S., Inc.
211 N Florence Street
Suite 202
El Paso, TX 79901

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

Re: El Paso Smelter

Work Order: **1202971**

Dear Marla,

ALS Environmental received 1 sample on 29-Feb-2012 09:10 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 43.

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

Sincerely,

A handwritten signature in cursive script that reads "Bethany Agarwal".

Electronically approved by: Mary K. Knowles

Bethany Agarwal
Project Manager



Certificate No: TX: T104704231-11-5

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Client: ARCADIS U.S., Inc.
Project: El Paso Smelter
Work Order: 1202971

Work Order Sample Summary

<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>
1202971-01	QA022812	Water		2/28/2012 09:15	2/29/2012 09:10	<input type="checkbox"/>

Client: ARCADIS U.S., Inc.

Project: El Paso Smelter

Work Order: 1202971

Case Narrative

Batch R124070, Sulfide, Sample 1202772-01: MS/MSD performed on an unrelated sample.

Batch 59229, Metals, Sample 1202950-04: MS/MSD and PDS performed on an unrelated sample.

Batch 59280, Metals, Sample 12021007-03: MS/MSD and SD performed on an unrelated sample.

ALS Environmental

Date: 07-Mar-12

Client: ARCADIS U.S., Inc.
Project: El Paso Smelter
Sample ID: QA022812
Collection Date: 2/28/2012 09:15 AM

Work Order: 1202971
Lab ID: 1202971-01
Matrix: WATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
DISSOLVED MERCURY			Method: SW7470		Prep: SW7470 / 3/5/12		Analyst: JCJ
Mercury	U		0.000042	0.000200	mg/L	1	3/5/2012 16:38
MERCURY			Method: SW7470		Prep: SW7470 / 3/2/12		Analyst: JCJ
Mercury	U		0.000042	0.000200	mg/L	1	3/2/2012 14:08
DISSOLVED METALS			Method: SW6020		Prep: SW3010A / 3/2/12		Analyst: ALR
Antimony	0.00831		0.00080	0.00500	mg/L	1	3/2/2012 21:28
Arsenic	1.65		0.0013	0.00500	mg/L	1	3/2/2012 21:28
Barium	0.0288		0.00090	0.00500	mg/L	1	3/2/2012 21:28
Cadmium	U		0.00080	0.00200	mg/L	1	3/2/2012 21:28
Chromium	U		0.0012	0.00500	mg/L	1	3/2/2012 21:28
Cobalt	0.00265	J	0.00080	0.00500	mg/L	1	3/2/2012 21:28
Copper	0.0101		0.0015	0.00500	mg/L	1	3/2/2012 21:28
Iron	U		0.078	0.200	mg/L	1	3/2/2012 21:28
Lead	U		0.00070	0.00500	mg/L	1	3/2/2012 21:28
Molybdenum	0.432		0.0015	0.00500	mg/L	1	3/2/2012 21:28
Nickel	0.00264	J	0.0012	0.00500	mg/L	1	3/2/2012 21:28
Selenium	0.178		0.0010	0.00500	mg/L	1	3/2/2012 21:28
Silver	U		0.00080	0.00500	mg/L	1	3/2/2012 21:28
Thallium	U		0.0010	0.00200	mg/L	1	3/2/2012 21:28
Zinc	0.0270		0.0025	0.00500	mg/L	1	3/2/2012 21:28
METALS			Method: SW6020		Prep: SW3010A / 2/29/12		Analyst: IGF
Aluminum	0.0451		0.0040	0.0100	mg/L	1	3/1/2012 11:04
Antimony	0.00831		0.00080	0.00500	mg/L	1	3/1/2012 11:04
Arsenic	1.46		0.0013	0.00500	mg/L	1	3/1/2012 11:04
Barium	0.0288		0.00090	0.00500	mg/L	1	3/1/2012 11:04
Cadmium	U		0.00080	0.00200	mg/L	1	3/1/2012 11:04
Calcium	127		0.086	0.500	mg/L	1	3/1/2012 11:04
Chromium	0.00150	J	0.0012	0.00500	mg/L	1	3/1/2012 11:04
Cobalt	0.000803	J	0.00080	0.00500	mg/L	1	3/1/2012 11:04
Copper	0.0153		0.0015	0.00500	mg/L	1	3/1/2012 11:04
Iron	U		0.078	0.200	mg/L	1	3/1/2012 11:04
Lead	U		0.00070	0.00500	mg/L	1	3/1/2012 11:04
Magnesium	52.3		0.082	0.200	mg/L	1	3/1/2012 11:04
Manganese	0.137		0.0025	0.00500	mg/L	1	3/1/2012 11:04
Molybdenum	0.414		0.0015	0.00500	mg/L	1	3/1/2012 11:04
Nickel	0.00378	J	0.0012	0.00500	mg/L	1	3/1/2012 11:04
Potassium	44.6		0.084	0.200	mg/L	1	3/1/2012 11:04
Selenium	0.140		0.0010	0.00500	mg/L	1	3/1/2012 11:04

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

ALS Environmental

Date: 07-Mar-12

Client: ARCADIS U.S., Inc.
Project: El Paso Smelter
Sample ID: QA022812
Collection Date: 2/28/2012 09:15 AM

Work Order: 1202971
Lab ID: 1202971-01
Matrix: WATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
Silver		U	0.00080	0.00500	mg/L	1	3/1/2012 11:04
Sodium	489		1.7	4.00	mg/L	20	3/1/2012 23:56
Thallium		U	0.0010	0.00200	mg/L	1	3/1/2012 11:04
Zinc	0.0333		0.0025	0.00500	mg/L	1	3/1/2012 11:04
ANIONS - EPA 300.0 (1993)			Method: E300			Analyst: JKP	
Chloride	303		4.00	10.0	mg/L	20	3/6/2012 05:02
Fluoride	3.37		0.0500	0.100	mg/L	1	3/1/2012 02:24
Nitrogen, Nitrate (As N)	4.03		0.0300	0.100	mg/L	1	3/1/2012 02:24
Nitrogen, Nitrite (As N)	0.0500	J	0.0300	0.100	mg/L	1	3/1/2012 02:24
Sulfate	1,030		4.00	10.0	mg/L	20	3/6/2012 05:02
Nitrate/Nitrite (as N)	4.08		0.0300	0.100	mg/L	1	3/1/2012 02:24
Surr: Selenate (surr)	110			85-115	%REC	1	3/1/2012 02:24
Surr: Selenate (surr)	109			85-115	%REC	20	3/6/2012 05:02
ALKALINITY			Method: SM2320B			Analyst: DM	
Alkalinity, Total (As CaCO3)	395		5.0	5.00	mg/L	1	3/6/2012 16:36
SULFIDE			Method: SM4500 S2-F			Analyst: JKP	
Sulfide		U	0.50	1.00	mg/L	1	2/29/2012 09:15
TOTAL DISSOLVED SOLIDS			Method: M2540C			Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	2,510		5.0	10.0	mg/L	1	3/5/2012 19:30
TOTAL ORGANIC CARBON - SM5310C			Method: SM5310C			Analyst: RPM	
Organic Carbon, Total	2.84		0.10	0.500	mg/L	1	3/6/2012 05:38
TOTAL SUSPENDED SOLIDS			Method: M2540D			Analyst: KAH	
Suspended Solids (Residue, Non-Filterable)		U	2.00	2.00	mg/L	1	3/2/2012 12:30

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

Work Order: 1202971
 Client: ARCADIS U.S., Inc.
 Project: El Paso Smelter

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
<u>Batch ID</u> 59229 <u>Test Name:</u> Metals						
1202971-01C	QA022812	Water	2/28/2012 9:15:00 AM		2/29/2012 04:00 PM	3/1/2012 11:04 AM
					2/29/2012 04:00 PM	3/1/2012 11:56 PM
<u>Batch ID</u> 59276 <u>Test Name:</u> Mercury						
1202971-01C	QA022812	Water	2/28/2012 9:15:00 AM		3/2/2012 10:27 AM	3/2/2012 02:08 PM
<u>Batch ID</u> 59280 <u>Test Name:</u> Dissolved Metals						
1202971-01B	QA022812	Water	2/28/2012 9:15:00 AM		3/2/2012 04:00 PM	3/2/2012 09:28 PM
<u>Batch ID</u> 59318 <u>Test Name:</u> Dissolved Mercury						
1202971-01B	QA022812	Water	2/28/2012 9:15:00 AM		3/5/2012 12:31 PM	3/5/2012 04:38 PM
<u>Batch ID</u> R124070 <u>Test Name:</u> Sulfide						
1202971-01D	QA022812	Water	2/28/2012 9:15:00 AM			2/29/2012 09:15 AM
<u>Batch ID</u> R124316 <u>Test Name:</u> Total Suspended Solids						
1202971-01E	QA022812	Water	2/28/2012 9:15:00 AM			3/2/2012 12:30 PM
<u>Batch ID</u> R124358 <u>Test Name:</u> Total Organic Carbon - SM5310C						
1202971-01A	QA022812	Water	2/28/2012 9:15:00 AM			3/6/2012 05:38 AM
<u>Batch ID</u> R124408 <u>Test Name:</u> Total Dissolved Solids						
1202971-01F	QA022812	Water	2/28/2012 9:15:00 AM			3/5/2012 07:30 PM
<u>Batch ID</u> R124409 <u>Test Name:</u> Anions - EPA 300.0 (1993)						
1202971-01F	QA022812	Water	2/28/2012 9:15:00 AM			3/6/2012 05:02 AM

Work Order: 1202971
 Client: ARCADIS U.S., Inc.
 Project: El Paso Smelter

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID <u>R124421</u> Test Name: <u>Alkalinity</u>						
1202971-01F	QA022812	Water	2/28/2012 9:15:00 AM			3/6/2012 04:36 PM
Batch ID <u>R124434</u> Test Name: <u>Anions - EPA 300.0 (1993)</u>						
1202971-01F	QA022812	Water	2/28/2012 9:15:00 AM			3/1/2012 02:24 AM

WorkOrder: 1202971
InstrumentID: Balance1
Test Code: TDS_W 2540C
Test Number: M2540C
Test Name: Total Dissolved Solids

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Total Dissolved Solids (Residue, Filterable)	TDS	4.0	5.0	10

WorkOrder: 1202971
InstrumentID: Balance1
Test Code: TSS_W 2540D
Test Number: M2540D
Test Name: Total Suspended Solids

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Suspended Solids (Residue, Non-Filterable)	TSS	2.10	2.00	2.00

WorkOrder: 1202971
InstrumentID: ICP7500
Test Code: ICP_DISS
Test Number: SW6020
Test Name: Dissolved Metals

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Antimony	7440-36-0	0.0020	0.00080	0.0050
A	Arsenic	7440-38-2	0.0020	0.0013	0.0050
A	Barium	7440-39-3	0.0021	0.00090	0.0050
A	Cadmium	7440-43-9	0.0020	0.00080	0.0020
A	Chromium	7440-47-3	0.0020	0.0012	0.0050
A	Cobalt	7440-48-4	0.0019	0.00080	0.0050
A	Copper	7440-50-8	0.0020	0.0015	0.0050
A	Iron	7439-89-6	0.20	0.078	0.20
A	Lead	7439-92-1	0.0020	0.00070	0.0050
A	Molybdenum	7439-98-7	0.0022	0.0015	0.0050
A	Nickel	7440-02-0	0.0018	0.0012	0.0050
A	Selenium	7782-49-2	0.0021	0.0010	0.0050
A	Silver	7440-22-4	0.0018	0.00080	0.0050
A	Thallium	7440-28-0	0.0023	0.0010	0.0020
A	Zinc	7440-66-6	0.0026	0.0025	0.0050

WorkOrder: 1202971
InstrumentID: ICPMS04
Test Code: ICP_TW
Test Number: SW6020
Test Name: Metals

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Aluminum	7429-90-5	0.0029	0.0040	0.010
A	Antimony	7440-36-0	0.0011	0.00080	0.0050
A	Arsenic	7440-38-2	0.0012	0.0013	0.0050
A	Barium	7440-39-3	0.0012	0.00090	0.0050
A	Cadmium	7440-43-9	0.0012	0.00080	0.0020
A	Calcium	7440-70-2	0.12	0.086	0.50
A	Chromium	7440-47-3	0.0015	0.0012	0.0050
A	Cobalt	7440-48-4	0.0011	0.00080	0.0050
A	Copper	7440-50-8	0.0014	0.0015	0.0050
A	Iron	7439-89-6	0.12	0.078	0.20
A	Lead	7439-92-1	0.0013	0.00070	0.0050
A	Magnesium	7439-95-4	0.11	0.082	0.20
A	Manganese	7439-96-5	0.0011	0.0025	0.0050
A	Molybdenum	7439-98-7	0.0011	0.0015	0.0050
A	Nickel	7440-02-0	0.0012	0.0012	0.0050
A	Potassium	7440-09-7	0.14	0.084	0.20
A	Selenium	7782-49-2	0.0014	0.0010	0.0050
A	Silver	7440-22-4	0.0011	0.00080	0.0050
A	Sodium	7440-23-5	0.15	0.085	0.20
A	Thallium	7440-28-0	0.00083	0.0010	0.0020
A	Zinc	7440-66-6	0.0065	0.0025	0.0050

WorkOrder: 1202971
InstrumentID: ICS3K2
Test Code: 300_W
Test Number: E300
Test Name: Anions - EPA 300.0 (1993)

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous Units: mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Chloride	16887-00-6	0.389	0.200	0.500
A	Fluoride	16984-48-8	0.0192	0.0500	0.100
A	Nitrogen, Nitrate (As N)	14797-55-8	0.0510	0.0300	0.100
A	Nitrogen, Nitrite (As N)	14797-65-0	0.0330	0.0300	0.100
A	Sulfate	14808-79-8	1.00	0.200	0.500
M	Nitrate/Nitrite (as N)	ARC-NO3NO	0.0840	0.0300	0.100
S	Surr: Selenate (surr)	10102-23-5	0	0.100	0.100

WorkOrder: 1202971
InstrumentID: Mercury
Test Code: HG_DISS
Test Number: SW7470
Test Name: Dissolved Mercury

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Mercury	7439-97-6	0.000075	0.000042	0.00020

WorkOrder: 1202971
InstrumentID: Mercury
Test Code: HG_W
Test Number: SW7470
Test Name: Mercury

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Mercury	7439-97-6	0.000075	0.000042	0.00020

WorkOrder: 1202971
InstrumentID: TOC_02
Test Code: TOC_W 5310C
Test Number: SM5310C
Test Name: Total Organic Carbon - SM5310C

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Organic Carbon, Total	7440-44-0	0.11	0.10	0.50

WorkOrder: 1202971
InstrumentID: WetChem
Test Code: ALK_W 2320B
Test Number: SM2320B
Test Name: Alkalinity

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Alkalinity, Total (As CaCO3)	ALK	14	5.0	5.0

WorkOrder: 1202971
InstrumentID: WetChem
Test Code: SULFD_4500S F
Test Number: SM4500 S2-F
Test Name: Sulfide

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Sulfide	18496-25-8	1.9	0.50	1.0

ALS Environmental

Date: 07-Mar-12

Client: ARCADIS U.S., Inc.
Work Order: 1202971
Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **59229** Instrument ID **ICPMS04** Method: **SW6020**

MBLK Sample ID: **MBLKW2-022912-59229** Units: **mg/L** Analysis Date: **3/1/2012 03:20 PM**

Client ID: Run ID: **ICPMS04_120229A** SeqNo: **2704747** Prep Date: **2/29/2012** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
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	U	0.0050								
Molybdenum	U	0.0050								
Nickel	U	0.0050								
Potassium	U	0.20								
Selenium	U	0.0050								
Silver	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: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **59229** Instrument ID **ICPMS04** Method: **SW6020**

LCS Sample ID: **MLCSW2-022912-59229** Units: **mg/L** Analysis Date: **3/1/2012 05:24 AM**

Client ID: Run ID: **ICPMS04_120229A** SeqNo: **2704058** Prep Date: **2/29/2012** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04787	0.0050	0.05	0	95.7	80-120	0			
Arsenic	0.0488	0.0050	0.05	0	97.6	80-120	0			
Barium	0.05138	0.0050	0.05	0	103	80-120	0			
Cadmium	0.0483	0.0020	0.05	0	96.6	80-120	0			
Calcium	4.989	0.50	5	0	99.8	80-120	0			
Chromium	0.04778	0.0050	0.05	0	95.6	80-120	0			
Cobalt	0.04748	0.0050	0.05	0	95	80-120	0			
Copper	0.04836	0.0050	0.05	0	96.7	80-120	0			
Lead	0.048	0.0050	0.05	0	96	80-120	0			
Manganese	0.04857	0.0050	0.05	0	97.1	80-120	0			
Molybdenum	0.04679	0.0050	0.05	0	93.6	80-120	0			
Selenium	0.04774	0.0050	0.05	0	95.5	80-120	0			
Silver	0.04807	0.0050	0.05	0	96.1	80-120	0			
Thallium	0.04738	0.0020	0.05	0	94.8	80-120	0			
Zinc	0.05356	0.0050	0.05	0	107	80-120	0			

LCS Sample ID: **MLCSW2-022912-59229** Units: **mg/L** Analysis Date: **3/1/2012 06:13 PM**

Client ID: Run ID: **ICPMS04_120229A** SeqNo: **2705146** Prep Date: **2/29/2012** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1038	0.010	0.1	0	104	80-120	0			
Iron	5.054	0.20	5	0	101	80-120	0			
Magnesium	4.965	0.20	5	0	99.3	80-120	0			
Nickel	0.04988	0.0050	0.05	0	99.8	80-120	0			
Potassium	4.953	0.20	5	0	99.1	80-120	0			
Sodium	4.727	0.20	5	0	94.5	80-120	0			

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **59229** Instrument ID **ICPMS04** Method: **SW6020**

MS	Sample ID: 1202950-04DMS	Units: mg/L					Analysis Date: 3/2/2012 05:51 PM			
Client ID:	Run ID: ICPMS04_120302A	SeqNo: 2706306			Prep Date: 2/29/2012		DF: 5			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09861	0.050	0.1	0.002997	95.6	80-120	0			
Antimony	0.04945	0.025	0.05	-0.000324	99.5	80-120	0			
Arsenic	0.05556	0.025	0.05	0.001822	107	80-120	0			
Barium	0.1618	0.025	0.05	0.104	116	80-120	0			
Cadmium	0.05037	0.010	0.05	0.000047	101	80-120	0			
Calcium	525.3	2.5	5	521.6	74.2	80-120	0			SO
Chromium	0.04882	0.025	0.05	0.000132	97.4	80-120	0			
Cobalt	0.0517	0.025	0.05	0.002574	98.3	80-120	0			
Copper	0.04803	0.025	0.05	0.000783	94.5	80-120	0			
Iron	13.04	1.0	5	8.091	99	80-120	0			
Lead	0.05087	0.025	0.05	0.000348	101	80-120	0			
Magnesium	599.9	1.0	5	601.2	-26.6	80-120	0			SO
Manganese	2.699	0.025	0.05	2.628	143	80-120	0			SO
Molybdenum	0.05442	0.025	0.05	0.005527	97.8	80-120	0			
Nickel	0.06232	0.025	0.05	0.017	90.6	80-120	0			
Potassium	101.1	1.0	5	98.09	60.8	80-120	0			SO
Selenium	0.0567	0.025	0.05	0.001873	110	80-120	0			
Silver	0.04727	0.025	0.05	-0.000916	96.4	80-120	0			
Sodium	U	1.0	5	0	0	80-120	0			SX
Thallium	0.04956	0.010	0.05	0.002477	94.2	80-120	0			
Zinc	0.0523	0.025	0.05	0.01637	71.9	80-120	0			S

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 59229 Instrument ID ICPMS04 Method: SW6020

MSD		Sample ID: 1202950-04DMSD				Units: mg/L		Analysis Date: 3/2/2012 05:58 PM			
Client ID:		Run ID: ICPMS04_120302A				SeqNo: 2706307		Prep Date: 2/29/2012		DF: 5	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Aluminum	0.09298	0.050	0.1	0.002997	90	80-120	0.09861	5.88	15		
Antimony	0.04771	0.025	0.05	-0.000324	96.1	80-120	0.04945	3.59	15		
Arsenic	0.05498	0.025	0.05	0.001822	106	80-120	0.05556	1.05	15		
Barium	0.153	0.025	0.05	0.104	97.9	80-120	0.1618	5.63	15		
Cadmium	0.04955	0.010	0.05	0.000047	99	80-120	0.05037	1.64	15		
Calcium	489.4	2.5	5	521.6	-644	80-120	525.3	7.08	15	SO	
Chromium	0.047	0.025	0.05	0.000132	93.7	80-120	0.04882	3.8	15		
Cobalt	0.0486	0.025	0.05	0.002574	92.1	80-120	0.0517	6.18	15		
Copper	0.04538	0.025	0.05	0.000783	89.2	80-120	0.04803	5.67	15		
Iron	12.11	1.0	5	8.091	80.3	80-120	13.04	7.43	15		
Lead	0.0477	0.025	0.05	0.000348	94.7	80-120	0.05087	6.43	15		
Magnesium	557.6	1.0	5	601.2	-872	80-120	599.9	7.3	15	SO	
Manganese	2.5	0.025	0.05	2.628	-255	80-120	2.699	7.66	15	SO	
Molybdenum	0.05147	0.025	0.05	0.005527	91.9	80-120	0.05442	5.56	15		
Nickel	0.05891	0.025	0.05	0.017	83.8	80-120	0.06232	5.62	15		
Potassium	93.73	1.0	5	98.09	-87.3	80-120	101.1	7.6	15	SO	
Selenium	0.05922	0.025	0.05	0.001873	115	80-120	0.0567	4.34	15		
Silver	0.04563	0.025	0.05	-0.000916	93.1	80-120	0.04727	3.54	15		
Sodium	4806	1.0	5	0	96100	80-120	0	200	15	SRE	
Thallium	0.04737	0.010	0.05	0.002477	89.8	80-120	0.04956	4.51	15		
Zinc	0.04801	0.025	0.05	0.01637	63.3	80-120	0.0523	8.55	15	S	

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 59229 Instrument ID ICPMS04 Method: SW6020

DUP		Sample ID: 1202950-04DDUP				Units: mg/L		Analysis Date: 3/2/2012 05:38 PM		
Client ID:		Run ID: ICPMS04_120302A				SeqNo: 2706299		Prep Date: 2/29/2012		DF: 5
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.050	0	0	0	0-0	0.002997	0	25	
Antimony	U	0.025	0	0	0	0-0	-0.000324	0	25	
Arsenic	U	0.025	0	0	0	0-0	0.001822	0	25	
Barium	0.09946	0.025	0	0	0	0-0	0.104	4.51	25	
Cadmium	U	0.010	0	0	0	0-0	0.000047	0	25	
Calcium	501.2	2.5	0	0	0	0-0	521.6	3.98	25	
Chromium	U	0.025	0	0	0	0-0	0.000132	0	25	
Cobalt	U	0.025	0	0	0	0-0	0.002574	0	25	
Copper	U	0.025	0	0	0	0-0	0.000783	0	25	
Iron	7.755	1.0	0	0	0	0-0	8.091	4.24	25	
Lead	U	0.025	0	0	0	0-0	0.000348	0	25	
Magnesium	566.4	1.0	0	0	0	0-0	601.2	5.96	25	
Manganese	2.536	0.025	0	0	0	0-0	2.628	3.54	25	
Molybdenum	U	0.025	0	0	0	0-0	0.005527	0	25	
Nickel	0.01368	0.025	0	0	0	0-0	0.017	0	25	J
Potassium	92.51	1.0	0	0	0	0-0	98.09	5.86	25	
Selenium	U	0.025	0	0	0	0-0	0.001873	0	25	
Silver	U	0.025	0	0	0	0-0	-0.000916	0	25	
Thallium	U	0.010	0	0	0	0-0	0.002477	0	25	
Zinc	U	0.025	0	0	0	0-0	0.01637	0	25	

DUP		Sample ID: 1202950-04DDUP				Units: mg/L		Analysis Date: 3/5/2012 06:53 PM		
Client ID:		Run ID: ICPMS04_120305A				SeqNo: 2708191		Prep Date: 2/29/2012		DF: 1000
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	5021	200	0	0	0	0-0	5035	0.283	25	

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 59229 Instrument ID ICPMS04 Method: SW6020

PDS Sample ID: 1202950-04DBS Units: mg/L Analysis Date: 3/2/2012 06:12 PM

Client ID: Run ID: ICPMS04_120302A SeqNo: 2706309 Prep Date: DF: 5

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.4417	0.050	0.5	0.002997	87.7	75-125	0			
Antimony	0.494	0.025	0.5	-0.000324	98.9	75-125	0			
Arsenic	0.5325	0.025	0.5	0.001822	106	75-125	0			
Barium	0.6144	0.025	0.5	0.104	102	75-125	0			
Cadmium	0.4957	0.010	0.5	0.000047	99.1	75-125	0			
Calcium	550.8	2.5	50	521.6	58.4	75-125	0			SO
Chromium	0.4611	0.025	0.5	0.000132	92.2	75-125	0			
Cobalt	0.4694	0.025	0.5	0.002574	93.4	75-125	0			
Copper	0.4464	0.025	0.5	0.000783	89.1	75-125	0			
Iron	53.32	1.0	50	8.091	90.5	75-125	0			
Lead	0.49	0.025	0.5	0.000348	97.9	75-125	0			
Magnesium	624	1.0	50	601.2	45.6	75-125	0			SO
Manganese	3.004	0.025	0.5	2.628	75.3	75-125	0			O
Molybdenum	0.4943	0.025	0.5	0.005527	97.7	75-125	0			
Nickel	0.479	0.025	0.5	0.017	92.4	75-125	0			
Potassium	141.5	1.0	50	98.09	86.7	75-125	0			
Selenium	0.5163	0.025	0.5	0.001873	103	75-125	0			
Silver	0.4833	0.025	0.1	-0.000916	484	75-125	0			S
Thallium	0.4786	0.010	0.5	0.002477	95.2	75-125	0			
Zinc	0.4784	0.025	0.5	0.01637	92.4	75-125	0			

PDS Sample ID: 1202950-04DBS Units: mg/L Analysis Date: 3/5/2012 07:01 PM

Client ID: Run ID: ICPMS04_120305A SeqNo: 2708192 Prep Date: DF: 1000

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	14650	200	10000	5035	96.1	75-125	0			

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 59229 Instrument ID ICPMS04 Method: SW6020

SD Sample ID: 1202950-04D DIL SX Units: mg/L Analysis Date: 3/2/2012 06:18 PM

Client ID: Run ID: ICPMS04_120302A SeqNo: 2706310 Prep Date: DF: 25

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	U	0.25	0	0	0	0-0	0.002997	0	10	
Antimony	U	0.12	0	0	0	0-0	-0.000324	0	10	
Arsenic	U	0.12	0	0	0	0-0	0.001822	0	10	
Barium	0.102	0.12	0	0	0	0-0	0.104	0	10	J
Cadmium	U	0.050	0	0	0	0-0	0.000047	0	10	
Calcium	497.5	12	0	0	0	0-0	521.6	4.62	10	
Chromium	U	0.12	0	0	0	0-0	0.000132	0	10	
Cobalt	U	0.12	0	0	0	0-0	0.002574	0	10	
Copper	U	0.12	0	0	0	0-0	0.000783	0	10	
Iron	7.646	5.0	0	0	0	0-0	8.091	5.49	10	
Lead	U	0.12	0	0	0	0-0	0.000348	0	10	
Magnesium	589.4	5.0	0	0	0	0-0	601.2	1.97	10	
Manganese	2.543	0.12	0	0	0	0-0	2.628	3.21	10	
Molybdenum	U	0.12	0	0	0	0-0	0.005527	0	10	
Nickel	U	0.12	0	0	0	0-0	0.017	0	10	
Potassium	98.03	5.0	0	0	0	0-0	98.09	0.0596	10	
Selenium	U	0.12	0	0	0	0-0	0.001873	0	10	
Silver	U	0.12	0	0	0	0-0	-0.000916	0	10	
Thallium	U	0.050	0	0	0	0-0	0.002477	0	10	
Zinc	U	0.12	0	0	0	0-0	0.01637	0	10	

SD Sample ID: 1202950-04D DIL SX Units: mg/L Analysis Date: 3/5/2012 07:07 PM

Client ID: Run ID: ICPMS04_120305A SeqNo: 2708193 Prep Date: DF: 5000

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Sodium	4945	1,000	0	0	0	0-0	5035	1.79	10	

The following samples were analyzed in this batch: 1202971-01C

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 59276 Instrument ID Mercury Method: SW7470

MBLK	Sample ID: GBLKW1-030212-59276	Units: mg/L	Analysis Date: 3/2/2012 01:33 PM							
Client ID:	Run ID: MERCURY_120302A	SeqNo: 2706040	Prep Date: 3/2/2012 DF: 1							
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: GLCSW1-030212-59276	Units: mg/L	Analysis Date: 3/2/2012 01:39 PM							
Client ID:	Run ID: MERCURY_120302A	SeqNo: 2706041	Prep Date: 3/2/2012 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00502	0.00020	0.005	0	100	85-115	0			

MS	Sample ID: 12021005-01BMS	Units: mg/L	Analysis Date: 3/2/2012 01:47 PM							
Client ID:	Run ID: MERCURY_120302A	SeqNo: 2706044	Prep Date: 3/2/2012 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00486	0.00020	0.005	0.000152	94.2	85-115	0			

MSD	Sample ID: 12021005-01BMSD	Units: mg/L	Analysis Date: 3/2/2012 01:49 PM							
Client ID:	Run ID: MERCURY_120302A	SeqNo: 2706045	Prep Date: 3/2/2012 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00488	0.00020	0.005	0.000152	94.6	85-115	0.00486	0.411	20	

DUP	Sample ID: 12021005-01BDUP	Units: mg/L	Analysis Date: 3/2/2012 01:45 PM							
Client ID:	Run ID: MERCURY_120302A	SeqNo: 2706043	Prep Date: 3/2/2012 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000152	0.00020	0	0	0	0-0	0.000152	0	20	J

The following samples were analyzed in this batch: 1202971-01C

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **59280** Instrument ID **ICP7500** Method: **SW6020** (Dissolve)

MBLK Sample ID: **MBLKW4-030212-59280** Units: **mg/L** Analysis Date: **3/2/2012 08:19 PM**

Client ID: Run ID: **ICP7500_120302A** SeqNo: **2706673** Prep Date: **3/2/2012** DF: **1**

Analyte	Result	MQL	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								
Copper	U	0.0050								
Iron	U	0.20								
Lead	U	0.0050								
Molybdenum	U	0.0050								
Nickel	U	0.0050								
Selenium	U	0.0050								
Silver	U	0.0050								
Thallium	U	0.0020								
Zinc	U	0.0050								

MBLK Sample ID: **MBLKW4-030212-59280** Units: **mg/L** Analysis Date: **3/5/2012 02:27 PM**

Client ID: Run ID: **ICP7500_120305A** SeqNo: **2707592** Prep Date: **3/2/2012** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cobalt	U	0.0050								

LCS Sample ID: **MLCSW4-030212-59280** Units: **mg/L** Analysis Date: **3/2/2012 08:25 PM**

Client ID: Run ID: **ICP7500_120302A** SeqNo: **2706676** Prep Date: **3/2/2012** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04629	0.0050	0.05	0	92.6	80-120	0			
Arsenic	0.04777	0.0050	0.05	0	95.5	80-120	0			
Barium	0.04817	0.0050	0.05	0	96.3	80-120	0			
Cadmium	0.04533	0.0020	0.05	0	90.7	80-120	0			
Chromium	0.04747	0.0050	0.05	0	94.9	80-120	0			
Copper	0.04746	0.0050	0.05	0	94.9	80-120	0			
Iron	4.871	0.20	5	0	97.4	80-120	0			
Lead	0.04617	0.0050	0.05	0	92.3	80-120	0			
Molybdenum	0.04519	0.0050	0.05	0	90.4	80-120	0			
Nickel	0.04705	0.0050	0.05	0	94.1	80-120	0			
Selenium	0.04776	0.0050	0.05	0	95.5	80-120	0			
Silver	0.04703	0.0050	0.05	0	94.1	80-120	0			
Thallium	0.04501	0.0020	0.05	0	90	80-120	0			
Zinc	0.04988	0.0050	0.05	0	99.8	80-120	0			

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **59280** Instrument ID **ICP7500** Method: **SW6020** (**Dissolve**)

LCS Sample ID: **MLCSW4-030212-59280** Units: **mg/L** Analysis Date: **3/5/2012 02:33 PM**

Client ID: Run ID: **ICP7500_120305A** SeqNo: **2707593** Prep Date: **3/2/2012** DF: **1**

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cobalt	0.05136	0.0050	0.05	0	103	80-120	0			

MS Sample ID: **12021007-03BMS** Units: **mg/L** Analysis Date: **3/2/2012 08:50 PM**

Client ID: Run ID: **ICP7500_120302A** SeqNo: **2706687** Prep Date: **3/2/2012** DF: **1**

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04746	0.0050	0.05	-0.00006558	95.1	75-125	0			
Arsenic	0.05306	0.0050	0.05	0.002557	101	75-125	0			
Barium	0.3606	0.0050	0.05	0.2936	134	75-125	0			SO
Cadmium	0.0466	0.0020	0.05	0.00004651	93.1	75-125	0			
Chromium	0.05025	0.0050	0.05	0.0007151	99.1	75-125	0			
Copper	0.04644	0.0050	0.05	-0.0002979	93.5	75-125	0			
Iron	5.542	0.20	5	0.6391	98.1	75-125	0			
Lead	0.04734	0.0050	0.05	0.0002138	94.3	75-125	0			
Molybdenum	0.04705	0.0050	0.05	0.0003948	93.3	75-125	0			
Nickel	0.0553	0.0050	0.05	0.009491	91.6	75-125	0			
Selenium	0.04975	0.0050	0.05	0.0005947	98.3	75-125	0			
Silver	0.04412	0.0050	0.05	-0.0002288	88.7	75-125	0			
Thallium	0.04595	0.0020	0.05	0.0007388	90.4	75-125	0			
Zinc	0.05467	0.0050	0.05	0.004532	100	75-125	0			

MS Sample ID: **12021007-03BMS** Units: **mg/L** Analysis Date: **3/5/2012 03:17 PM**

Client ID: Run ID: **ICP7500_120305A** SeqNo: **2707681** Prep Date: **3/2/2012** DF: **1**

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cobalt	0.04875	0.0050	0.05	0.0008944	95.7	75-125	0			

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 59280 Instrument ID ICP7500 Method: SW6020 (Dissolve)

MSD Sample ID: 12021007-03BMSD Units: mg/L Analysis Date: 3/2/2012 08:56 PM

Client ID: Run ID: ICP7500_120302A SeqNo: 2706690 Prep Date: 3/2/2012 DF: 1

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04329	0.0050	0.05	-0.00006558	86.7	75-125	0.04746	9.19	25	
Arsenic	0.04779	0.0050	0.05	0.002557	90.5	75-125	0.05306	10.5	25	
Barium	0.3563	0.0050	0.05	0.2936	125	75-125	0.3606	1.2	25	SO
Cadmium	0.0457	0.0020	0.05	0.00004651	91.3	75-125	0.0466	1.95	25	
Chromium	0.04574	0.0050	0.05	0.0007151	90	75-125	0.05025	9.4	25	
Copper	0.04223	0.0050	0.05	-0.0002979	85.1	75-125	0.04644	9.5	25	
Iron	5.073	0.20	5	0.6391	88.7	75-125	5.542	8.84	25	
Lead	0.04881	0.0050	0.05	0.0002138	97.2	75-125	0.04734	3.06	25	
Molybdenum	0.04817	0.0050	0.05	0.0003948	95.6	75-125	0.04705	2.35	25	
Nickel	0.05134	0.0050	0.05	0.009491	83.7	75-125	0.0553	7.43	25	
Selenium	0.04495	0.0050	0.05	0.0005947	88.7	75-125	0.04975	10.1	25	
Silver	0.04465	0.0050	0.05	-0.0002288	89.8	75-125	0.04412	1.19	25	
Thallium	0.04806	0.0020	0.05	0.0007388	94.6	75-125	0.04595	4.49	25	
Zinc	0.04972	0.0050	0.05	0.004532	90.4	75-125	0.05467	9.48	25	

MSD Sample ID: 12021007-03BMSD Units: mg/L Analysis Date: 3/5/2012 03:23 PM

Client ID: Run ID: ICP7500_120305A SeqNo: 2707682 Prep Date: 3/2/2012 DF: 1

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cobalt	0.05238	0.0050	0.05	0.0008944	103	75-125	0.04875	7.18	25	

DUP Sample ID: 12021007-03BDUP Units: mg/L Analysis Date: 3/2/2012 08:38 PM

Client ID: Run ID: ICP7500_120302A SeqNo: 2706681 Prep Date: 3/2/2012 DF: 1

Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0050	0	0	0	0-0	-0.00006558	0	25	
Arsenic	0.002514	0.0050	0	0	0	0-0	0.002557	0	25	J
Barium	0.3111	0.0050	0	0	0	0-0	0.2936	5.79	25	
Cadmium	U	0.0020	0	0	0	0-0	0.00004651	0	25	
Chromium	U	0.0050	0	0	0	0-0	0.0007151	0	25	
Copper	U	0.0050	0	0	0	0-0	-0.0002979	0	25	
Iron	0.6898	0.20	0	0	0	0-0	0.6391	7.63	25	
Lead	U	0.0050	0	0	0	0-0	0.0002138	0	25	
Molybdenum	U	0.0050	0	0	0	0-0	0.0003948	0	25	
Nickel	0.009568	0.0050	0	0	0	0-0	0.009491	0.808	25	
Selenium	U	0.0050	0	0	0	0-0	0.0005947	0	25	
Silver	U	0.0050	0	0	0	0-0	-0.0002288	0	25	
Thallium	U	0.0020	0	0	0	0-0	0.0007388	0	25	
Zinc	0.005556	0.0050	0	0	0	0-0	0.004532	20.3	25	

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 59280 Instrument ID ICP7500 Method: SW6020 (Dissolve)

DUP		Sample ID: 12021007-03BDUP				Units: mg/L		Analysis Date: 3/5/2012 03:05 PM			
Client ID:		Run ID: ICP7500_120305A				SeqNo: 2707679		Prep Date: 3/2/2012		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cobalt	0.0008846	0.0050	0	0	0	0-0	0.0008944	0	25	J	

PDS		Sample ID: 12021007-03BBS				Units: mg/L		Analysis Date: 3/2/2012 09:02 PM			
Client ID:		Run ID: ICP7500_120302A				SeqNo: 2706693		Prep Date:		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	0.08992	0.0050	0.1	-0.00006558	90	75-125	0				
Arsenic	0.09787	0.0050	0.1	0.002557	95.3	75-125	0				
Barium	0.3908	0.0050	0.1	0.2936	97.2	75-125	0				
Cadmium	0.08847	0.0020	0.1	0.00004651	88.4	75-125	0				
Chromium	0.09415	0.0050	0.1	0.0007151	93.4	75-125	0				
Copper	0.08863	0.0050	0.1	-0.0002979	88.9	75-125	0				
Iron	9.995	0.20	10	0.6391	93.6	75-125	0				
Lead	0.0943	0.0050	0.1	0.0002138	94.1	75-125	0				
Molybdenum	0.09202	0.0050	0.1	0.0003948	91.6	75-125	0				
Nickel	0.09712	0.0050	0.1	0.009491	87.6	75-125	0				
Selenium	0.09299	0.0050	0.1	0.0005947	92.4	75-125	0				
Silver	0.08832	0.0050	0.1	-0.0002288	88.5	75-125	0				
Thallium	0.09286	0.0020	0.1	0.0007388	92.1	75-125	0				
Zinc	0.09525	0.0050	0.1	0.004532	90.7	75-125	0				

PDS		Sample ID: 12021007-03BBS				Units: mg/L		Analysis Date: 3/5/2012 03:29 PM			
Client ID:		Run ID: ICP7500_120305A				SeqNo: 2707683		Prep Date:		DF: 1	
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cobalt	0.1007	0.0050	0.1	0.0008944	99.8	75-125	0				

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

Client: ARCADIS U.S., Inc.

Work Order: 1202971

Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 59280

Instrument ID ICP7500

Method: SW6020

(Dissolve)

SD		Sample ID: 12021007-03B DIL SX				Units: mg/L		Analysis Date: 3/5/2012 02:39 PM		
Client ID:		Run ID: ICP7500_120305A				SeqNo: 2707594		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	0	10	
Arsenic	U	0.025	0	0	0	0-0	0.002557	0	10	
Barium	0.3424	0.025	0	0	0	0-0	0.2936	16.6	10	R
Cadmium	U	0.010	0	0	0	0-0	0	0	10	
Chromium	U	0.025	0	0	0	0-0	0	0	10	
Copper	U	0.025	0	0	0	0-0	0	0	10	
Iron	0.798	1.0	0	0	0	0-0	0.6391	0	10	J
Lead	U	0.025	0	0	0	0-0	0	0	10	
Molybdenum	U	0.025	0	0	0	0-0	0	0	10	
Nickel	0.009765	0.025	0	0	0	0-0	0.009491	0	10	J
Selenium	U	0.025	0	0	0	0-0	0	0	10	
Silver	U	0.025	0	0	0	0-0	0	0	10	
Thallium	U	0.010	0	0	0	0-0	0	0	10	
Zinc	U	0.025	0	0	0	0-0	0.004532	0	10	

SD		Sample ID: 12021007-03B DIL SX				Units: mg/L		Analysis Date: 3/5/2012 03:11 PM		
Client ID:		Run ID: ICP7500_120305A				SeqNo: 2707680		Prep Date:		DF: 5
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Cobalt	U	0.025	0	0	0	0-0	0.0008944	0	10	

The following samples were analyzed in this batch:

1202971-01B

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: 59318 Instrument ID Mercury Method: SW7470 (Dissolve)

MBLK	Sample ID: GBLKW3-030512-59318	Units: mg/L	Analysis Date: 3/5/2012 04:32 PM							
Client ID:	Run ID: MERCURY_120305A	SeqNo: 2707863	Prep Date: 3/5/2012 DF: 1							
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: GLCSW3-030512-59318	Units: mg/L	Analysis Date: 3/5/2012 04:34 PM							
Client ID:	Run ID: MERCURY_120305A	SeqNo: 2707864	Prep Date: 3/5/2012 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00494	0.00020	0.005	0	98.8	80-120	0			

MS	Sample ID: 1202971-01BMS	Units: mg/L	Analysis Date: 3/5/2012 04:42 PM							
Client ID: QA022812	Run ID: MERCURY_120305A	SeqNo: 2707867	Prep Date: 3/5/2012 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00495	0.00020	0.005	-0.000002	99	80-120	0			

MSD	Sample ID: 1202971-01BMSD	Units: mg/L	Analysis Date: 3/5/2012 04:44 PM							
Client ID: QA022812	Run ID: MERCURY_120305A	SeqNo: 2707868	Prep Date: 3/5/2012 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00488	0.00020	0.005	-0.000002	97.6	80-120	0.00495	1.42	20	

DUP	Sample ID: 1202971-01BDUP	Units: mg/L	Analysis Date: 3/5/2012 04:40 PM							
Client ID: QA022812	Run ID: MERCURY_120305A	SeqNo: 2707866	Prep Date: 3/5/2012 DF: 1							
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	-0.000002	0	20	

The following samples were analyzed in this batch: 1202971-01B

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

Client: ARCADIS U.S., Inc.

Work Order: 1202971

Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R124070** Instrument ID **WetChem** Method: **SM4500 S2-F**

MBLK		Sample ID: WBLKW1-022912-R124070				Units: mg/L		Analysis Date: 2/29/2012 09:15 AM		
Client ID:		Run ID: WETCHEM_120229A				SeqNo: 2702967		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	U	1.0								

LCS		Sample ID: WLCSW1-022912-R124070				Units: mg/L		Analysis Date: 2/29/2012 09:15 AM		
Client ID:		Run ID: WETCHEM_120229A				SeqNo: 2702968		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	23.48	1.0	25	0	93.9	80-120	0			

LCSD		Sample ID: WLCSW1-022912-R124070				Units: mg/L		Analysis Date: 2/29/2012 09:15 AM		
Client ID:		Run ID: WETCHEM_120229A				SeqNo: 2703080		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	23.08	1.0	25	0	92.3	80-120	23.48	1.72	20	

MS		Sample ID: 1202772-01DMS				Units: mg/L		Analysis Date: 2/29/2012 09:15 AM		
Client ID:		Run ID: WETCHEM_120229A				SeqNo: 2703073		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide	39.08	1.0	25	0	156	80-120	0	0	0	S

The following samples were analyzed in this batch: 1202971-01D

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R124316** Instrument ID **Balance1** Method: **M2540D**

MBLK		Sample ID: WBLK-030212-R124316				Units: mg/L		Analysis Date: 3/2/2012 12:30 PM		
Client ID:		Run ID: BALANCE1_120302C				SeqNo: 2707341		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	U	2.0								

LCS		Sample ID: WLCS-030212-R124316				Units: mg/L		Analysis Date: 3/2/2012 12:30 PM		
Client ID:		Run ID: BALANCE1_120302C				SeqNo: 2707342		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	105.3	2.0	100	0	105	78-120	0			

DUP		Sample ID: 1202932-01BDUP				Units: mg/L		Analysis Date: 3/2/2012 12:30 PM		
Client ID:		Run ID: BALANCE1_120302C				SeqNo: 2707321		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	14.2	2.0	0	0	0	0-0	16.2	13.2	20	

DUP		Sample ID: 1202991-04BDUP				Units: mg/L		Analysis Date: 3/2/2012 12:30 PM		
Client ID:		Run ID: BALANCE1_120302C				SeqNo: 2707333		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Fi	478.4	2.0	0	0	0	0-0	410.4	15.3	20	

The following samples were analyzed in this batch: 1202971-01E

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R124358** Instrument ID **TOC_02** Method: **SM5310C**

MBLK		Sample ID: WBLKW2-030512-R124358				Units: mg/L		Analysis Date: 3/6/2012 12:54 AM		
Client ID:		Run ID: TOC_02_120305B				SeqNo: 2708114		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	0.3403	0.50								J

LCS		Sample ID: WLCSW2-030512-R124358				Units: mg/L		Analysis Date: 3/6/2012 01:10 AM		
Client ID:		Run ID: TOC_02_120305B				SeqNo: 2708115		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.491	0.50	10	0	94.9	80-120	0			

LCSD		Sample ID: WLCSDW2-030512-R124358				Units: mg/L		Analysis Date: 3/6/2012 01:26 AM		
Client ID:		Run ID: TOC_02_120305B				SeqNo: 2708116		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.634	0.50	10	0	96.3	80-120	9.491	1.5	20	

MS		Sample ID: 1203137-01BMS				Units: mg/L		Analysis Date: 3/6/2012 07:27 AM		
Client ID:		Run ID: TOC_02_120305B				SeqNo: 2708135		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	13.94	0.50	10	3.994	99.5	80-120	0			

MSD		Sample ID: 1203137-01BMSD				Units: mg/L		Analysis Date: 3/6/2012 07:41 AM		
Client ID:		Run ID: TOC_02_120305B				SeqNo: 2708136		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	13.98	0.50	10	3.994	99.9	80-120	13.94	0.287	20	

The following samples were analyzed in this batch: 1202971-01A

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

Client: ARCADIS U.S., Inc.

Work Order: 1202971

Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R124408** Instrument ID **BALANCE1** Method: **M2540C**

MBLK		Sample ID: WBLK-030512-R124408				Units: mg/L		Analysis Date: 3/5/2012 07:30 PM		
Client ID:		Run ID: BALANCE1_120305E				SeqNo: 2709353		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, Filt	U	10								

LCS		Sample ID: WLCS-030512-R124408				Units: mg/L		Analysis Date: 3/5/2012 07:30 PM		
Client ID:		Run ID: BALANCE1_120305E				SeqNo: 2709354		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, Filt	984	10	1000		0	98.4	85-115	0		

DUP		Sample ID: 12021002-09DDUP				Units: mg/L		Analysis Date: 3/5/2012 07:30 PM		
Client ID:		Run ID: BALANCE1_120305E				SeqNo: 2709332		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, Filt	4040	10	0		0	0	0-0	4020	0.496	20

DUP		Sample ID: 1203052-04DDUP				Units: mg/L		Analysis Date: 3/5/2012 07:30 PM		
Client ID:		Run ID: BALANCE1_120305E				SeqNo: 2709378		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, Filt	1692	10	0		0	0	0-0	1720	1.64	20

The following samples were analyzed in this batch: 1202971-01F

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R124409** Instrument ID **ICS3K2** Method: **E300**

MBLK		Sample ID: WBLKW1-030512-R124409				Units: mg/L		Analysis Date: 3/5/2012 06:53 PM		
Client ID:		Run ID: ICS3K2_120305A				SeqNo: 2709381		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.4	0.50								J
Sulfate	0.301	0.50								J
<i>Surr: Selenate (surr)</i>	5.473	0.10	5	0	109	85-115	0			

LCS		Sample ID: WLCSW1-030512-R124409				Units: mg/L		Analysis Date: 3/5/2012 07:15 PM		
Client ID:		Run ID: ICS3K2_120305A				SeqNo: 2709355		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	18.32	0.50	20	0	91.6	90-110	0			
Sulfate	18.76	0.50	20	0	93.8	90-110	0			
<i>Surr: Selenate (surr)</i>	5.392	0.10	5	0	108	85-115	0			

LCSD		Sample ID: WLCSDW1-030512-R124409				Units: mg/L		Analysis Date: 3/5/2012 07:37 PM		
Client ID:		Run ID: ICS3K2_120305A				SeqNo: 2709356		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	18.37	0.50	20	0	91.9	90-110	18.32	0.311	20	
Sulfate	18.76	0.50	20	0	93.8	90-110	18.76	0.016	20	
<i>Surr: Selenate (surr)</i>	5.368	0.10	5	0	107	85-115	5.392	0.446	20	

MS		Sample ID: 1202769-01EMS				Units: mg/L		Analysis Date: 3/6/2012 02:52 AM		
Client ID:		Run ID: ICS3K2_120305A				SeqNo: 2709371		Prep Date:		DF: 10
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	235.4	5.0	100	135.3	100	80-120	0			
Sulfate	117.7	5.0	100	22.67	95	80-120	0			
<i>Surr: Selenate (surr)</i>	54.24	1.0	50	0	108	85-115	0			

MSD		Sample ID: 1202769-01EMSD				Units: mg/L		Analysis Date: 3/6/2012 03:14 AM		
Client ID:		Run ID: ICS3K2_120305A				SeqNo: 2709373		Prep Date:		DF: 10
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	232.1	5.0	100	135.3	96.8	80-120	235.4	1.4	20	
Sulfate	115.5	5.0	100	22.67	92.8	80-120	117.7	1.87	20	
<i>Surr: Selenate (surr)</i>	53.19	1.0	50	0	106	85-115	54.24	1.95	20	

The following samples were analyzed in this batch: 1202971-01F

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

Client: ARCADIS U.S., Inc.

Work Order: 1202971

Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R124421** Instrument ID **WetChem** Method: **SM2320B**

MBLK		Sample ID: WBLKW1-030612-R124421				Units: mg/L		Analysis Date: 3/6/2012 04:36 PM		
Client ID:		Run ID: WETCHEM_120306H				SeqNo: 2709574		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	U	5.0								

LCS		Sample ID: WLCSW1-030612-R124421				Units: mg/L		Analysis Date: 3/6/2012 04:36 PM		
Client ID:		Run ID: WETCHEM_120306H				SeqNo: 2709575		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	1056	5.0	1000	0	106	80-120	0			

DUP		Sample ID: 1202769-01EDUP				Units: mg/L		Analysis Date: 3/6/2012 04:36 PM		
Client ID:		Run ID: WETCHEM_120306H				SeqNo: 2709587		Prep Date:		DF: 1
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	191	5.0	0	0	0	0-0	190.4	0.315	20	

The following samples were analyzed in this batch: 1202971-01F

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

Client: ARCADIS U.S., Inc.
 Work Order: 1202971
 Project: El Paso Smelter

QC BATCH REPORT

Batch ID: **R124434** Instrument ID **ICS3K2** Method: **E300**

MBLK Sample ID: **WBLKW1-022912-R124434** Units: **mg/L** Analysis Date: **3/1/2012 01:19 AM**

Client ID: Run ID: **ICS3K2_120229A** SeqNo: **2710015** 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	0.20								
Surr: Selenate (surr)	5.368	0.10	5	0	107	85-115	0			

LCS Sample ID: **WLCSW1-022912-R124434** Units: **mg/L** Analysis Date: **3/1/2012 01:41 AM**

Client ID: Run ID: **ICS3K2_120229A** SeqNo: **2710016** Prep Date: DF: **1**

Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.023	0.10	4	0	101	90-110	0			
Nitrogen, Nitrate (As N)	4.034	0.10	4	0	101	90-110	0			
Nitrogen, Nitrite (As N)	4.137	0.10	4	0	103	90-110	0			
Nitrate/Nitrite (as N)	8.171	0.20	8	0	102	90-110	0			
Surr: Selenate (surr)	5.256	0.10	5	0	105	85-115	0			

LCS D Sample ID: **WLCSDW1-022912-R124434** Units: **mg/L** Analysis Date: **3/1/2012 02:03 AM**

Client ID: Run ID: **ICS3K2_120229A** SeqNo: **2710017** Prep Date: DF: **1**

Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	3.99	0.10	4	0	99.8	90-110	4.023	0.824	20	
Nitrogen, Nitrate (As N)	4.035	0.10	4	0	101	90-110	4.034	0.0248	20	
Nitrogen, Nitrite (As N)	4.107	0.10	4	0	103	90-110	4.137	0.728	20	
Nitrate/Nitrite (as N)	8.142	0.20	8	0	102	90-110	8.171	0.356	20	
Surr: Selenate (surr)	5.31	0.10	5	0	106	85-115	5.256	1.02	20	

MS Sample ID: **1202998-01DMS** Units: **mg/L** Analysis Date: **3/1/2012 05:18 AM**

Client ID: Run ID: **ICS3K2_120229A** SeqNo: **2710022** Prep Date: DF: **5**

Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	10.76	0.50	10	0.757	100	80-120	0			
Nitrogen, Nitrate (As N)	10.43	0.50	10	0	104	80-120	0			
Nitrogen, Nitrite (As N)	10.38	0.50	10	0	104	80-120	0			
Nitrate/Nitrite (as N)	20.81	1.0	20	0	104	80-120	0			
Surr: Selenate (surr)	26.43	0.50	25	0	106	85-115	0			

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

Client: ARCADIS U.S., Inc.

Work Order: 1202971

Project: El Paso Smelter

QC BATCH REPORT

Batch ID: R124434

Instrument ID ICS3K2

Method: E300

MSD		Sample ID: 1202998-01DMSD			Units: mg/L			Analysis Date: 3/1/2012 05:40 AM		
Client ID:		Run ID: ICS3K2_120229A			SeqNo: 2710023		Prep Date:		DF: 5	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	10.66	0.50	10	0.757	99.1	80-120	10.76	0.952	20	
Nitrogen, Nitrate (As N)	10.4	0.50	10	0	104	80-120	10.43	0.298	20	
Nitrogen, Nitrite (As N)	10.35	0.50	10	0	104	80-120	10.38	0.299	20	
Nitrate/Nitrite (as N)	20.75	1.0	20	0	104	80-120	20.81	0.298	20	
Surr: Selenate (surr)	26.4	0.50	25	0	106	85-115	26.43	0.129	20	

The following samples were analyzed in this batch:

1202971-01F

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

Client: ARCADIS U.S., Inc.
Project: El Paso Smelter
WorkOrder: 1202971

**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

Sample Receipt Checklist

Client Name: MALCOLM PIRNIE-EL PASO

Date/Time Received: 29-Feb-12 09:10

Work Order: 1202971

Received by: PMG

Checklist completed by Robert D. Harris 29-Feb-12
eSignature Date

Reviewed by: Bethany Agarwal 29-Feb-12
eSignature Date

Matrices: waters

Carrier name: FedEx

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

Temperature(s)/Thermometer(s): 2.1c 002

Cooler(s)/Kit(s): 4172

Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]

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

pH adjusted? Yes [] No [] N/A [checked]

pH adjusted by: []

Login Notes:


Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments: []

CorrectiveAction: []

1/02/11

 ALS Environmental 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>[Signature]</i>
	Date: <i>2/28/12</i> Name: <i>D. Solon</i> Company: <i>ARCADIS</i>	Time: <i>1:00</i>	Date: <i>2/29/12</i>

If this portion can be removed for recipient's records.

Date: *2-28-12* FedEx Tracking Number: *898941670671*

Sender's Name: *D. Solon* Phone: *915 603-1015*

Company: *ARCADIS*

Address: *2112 Florence St., Ste 202* Dept./Floor/Suite/Room:

City: *EL PASO* State: *TX* ZIP: *79901*

Our Internal Billing Reference: *06835001, 10670*