



09/02/10

Technical Report for

Colorado Interstate Gas

Colorado Interstate Gas

Accutest Job Number: D16893

Sampling Date: 08/27/10

Report to:

Colorado Interstate Gas
2 North Nevada Avenue
Colorado Springs, CO 80908
scott.pope@elpaso.com

ATTN: Scott Pope

Total number of pages in report: 31



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Jesse L. Smith
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

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Test results relate only to samples analyzed.

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Sample Summary

Colorado Interstate Gas
Colorado Interstate Gas

Job No: D16893

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D16893-1	08/27/10	09:05 SP	08/27/10	SO	Soil	LAT160-PWTNK-01-7.5
D16893-1A	08/27/10	09:05 SP	08/27/10	SO	Soil	LAT160-PWTNK-01-7.5
D16893-2	08/27/10	09:08 SP	08/27/10	SO	Soil	LAT160-PWTNK-02-4.0
D16893-2A	08/27/10	09:08 SP	08/27/10	SO	Soil	LAT160-PWTNK-02-4.0

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Colorado Interstate Gas

Job No D16893

Site: Colorado Interstate Gas

Report Dat 9/2/2010 6:00:09 PM

On 08/27/2010, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 4 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D16893 was assigned to the project. The lab sample IDs, client sample IDs, and dates of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix SO

Batch ID: V5V550

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D16893-1MS, D16893-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix AQ

Batch ID: MP2761

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D16864-1AMS, D16864-1AMSD were used as the QC samples for the metals analysis.

Wet Chemistry By Method LADNR29B

Matrix SO

Batch ID: MP2761

- Sodium Adsorption Ratio: Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+(Mg meq/L)/2]

Wet Chemistry By Method SM19 2540B M

Matrix SO

Batch ID: GN6131

- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: LAT160-PWTNK-01-7.5**Lab Sample ID:** D16893-1**Date Sampled:** 08/27/10**Matrix:** SO - Soil**Date Received:** 08/27/10**Method:** SW846 8260B**Percent Solids:** 78.5**Project:** Colorado Interstate Gas

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V10044.D	1	08/27/10	DC	n/a	n/a	V5V550
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics+ GRO

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	77	23	ug/kg	
108-88-3	Toluene	ND	150	77	ug/kg	
100-41-4	Ethylbenzene	ND	150	31	ug/kg	
	m,p-Xylene	ND	310	54	ug/kg	
95-47-6	o-Xylene	ND	150	54	ug/kg	
	TPH-GRO (C6-C10)	ND	15000	15000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	82%		70-130%
17060-07-0	1,2-Dichloroethane-D4	81%		70-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LAT160-PWTNK-01-7.5			Date Sampled:	08/27/10		
Lab Sample ID:	D16893-1A			Date Received:	08/27/10		
Matrix:	SO - Soil			Percent Solids:	78.5		
Project:	Colorado Interstate Gas						

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Calcium	30.6	2.0	mg/l	1	08/31/10	08/31/10	JM	SW846 6010B ¹	EPA 200.7 ²
Magnesium	5.83	1.0	mg/l	1	08/31/10	08/31/10	JM	SW846 6010B ¹	EPA 200.7 ²
Sodium	151	2.0	mg/l	1	08/31/10	08/31/10	JM	SW846 6010B ¹	EPA 200.7 ²

- (1) Instrument QC Batch: MA941
(2) Prep QC Batch: MP2761

RL = Reporting Limit

Report of Analysis

Client Sample ID:	LAT160-PWTNK-01-7.5		
Lab Sample ID:	D16893-1A	Date Sampled:	08/27/10
Matrix:	SO - Soil	Date Received:	08/27/10
		Percent Solids:	78.5
Project:	Colorado Interstate Gas		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	6.55		ratio	1	08/31/10 21:54	JM	LADNR29B
Specific Conductivity	758	1.0	umhos/cm	1	08/31/10	CJ	DEPT.OF AG, BOOK N9
pH	8.96		su	1	08/27/10 14:45	JD	SW846 9045C

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID: LAT160-PWTNK-02-4.0
Lab Sample ID: D16893-2
Matrix: SO - Soil
Method: SW846 8260B
Project: Colorado Interstate Gas

Date Sampled: 08/27/10
Date Received: 08/27/10
Percent Solids: 81.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V10049.D	1	08/27/10	DC	n/a	n/a	V5V550
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics+ GRO

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	62.0	72	22	ug/kg	J
108-88-3	Toluene	ND	140	72	ug/kg	
100-41-4	Ethylbenzene	365	140	29	ug/kg	
	m,p-Xylene	2510	290	50	ug/kg	
95-47-6	o-Xylene	344	140	50	ug/kg	
	TPH-GRO (C6-C10)	94600	14000	14000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%
17060-07-0	1,2-Dichloroethane-D4	81%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LAT160-PWTNK-02-4.0			Date Sampled:	08/27/10		
Lab Sample ID:	D16893-2A			Date Received:	08/27/10		
Matrix:	SO - Soil			Percent Solids:	81.9		
Project:	Colorado Interstate Gas						

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	30.4	2.0	mg/l	1	08/31/10	08/31/10 JM	SW846 6010B ¹	EPA 200.7 ²
Magnesium	10.1	1.0	mg/l	1	08/31/10	08/31/10 JM	SW846 6010B ¹	EPA 200.7 ²
Sodium	45.1	2.0	mg/l	1	08/31/10	08/31/10 JM	SW846 6010B ¹	EPA 200.7 ²

(1) Instrument QC Batch: MA941
(2) Prep QC Batch: MP2761

RL = Reporting Limit

Report of Analysis

Client Sample ID:	LAT160-PWTNK-02-4.0			Date Sampled:	08/27/10		
Lab Sample ID:	D16893-2A			Date Received:	08/27/10		
Matrix:	SO - Soil			Percent Solids:	81.9		
Project:	Colorado Interstate Gas						

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	1.81		ratio	1	08/31/10 22:00	JM	LADNR29B
Specific Conductivity	413	1.0	umhos/cm	1	08/31/10	CJ	DEPT.OF AG, BOOK N9
pH	8.29		su	1	08/27/10 16:15	JD	SW846 9045C

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D16893

Client: SCOTT POPE @ EL PASO,COM

Immediate Client Services Action Required: No

Date / Time Received: 8/27/2010 2:10:00 PM

No. Coolers: 1

Client Service Action Required at Login: No

Project:

Airbill #'s: hd

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infrared gun | |
| 3. Cooler media: | Ice (bag) | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume rec'd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
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F: (303) 425-6854

Wheat Ridge, CO
www.accutest.com

D16893: Chain of Custody
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GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: D16893
Account: CIGCOCS Colorado Interstate Gas
Project: Colorado Interstate Gas

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V550-MB1	5V10030A.D 1		08/27/10	DC	n/a	n/a	V5V550

The QC reported here applies to the following samples:

Method: SW846 8260B

D16893-1, D16893-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	15	ug/kg	
100-41-4	Ethylbenzene	ND	100	20	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
	m,p-Xylene	ND	200	35	ug/kg	
95-47-6	o-Xylene	ND	100	35	ug/kg	
	TPH-GRO (C6-C10)	ND	10000	10000	ug/kg	

CAS No.	Surrogate Recoveries	Limits
2037-26-5	Toluene-D8	82% 70-130%
460-00-4	4-Bromofluorobenzene	82% 70-130%
17060-07-0	1,2-Dichloroethane-D4	84% 70-130%

Blank Spike Summary

Page 1 of 1

Job Number: D16893
Account: CIGCOCS Colorado Interstate Gas
Project: Colorado Interstate Gas

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V550-BS1	5V10031A.D 1		08/27/10	DC	n/a	n/a	V5V550

The QC reported here applies to the following samples:

Method: SW846 8260B

D16893-1, D16893-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	48.2	96	68-130
100-41-4	Ethylbenzene	50	51.0	102	70-130
108-88-3	Toluene	50	50.1	100	70-130
	m,p-Xylene	50	47.5	95	53-130
95-47-6	o-Xylene	50	46.7	93	61-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	81%	70-130%
460-00-4	4-Bromofluorobenzene	91%	70-130%
17060-07-0	1,2-Dichloroethane-D4	83%	70-130%

Blank Spike Summary

Job Number: D16893
Account: CIGCOCS Colorado Interstate Gas
Project: Colorado Interstate Gas

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V550-BS1	5V10032A.D 1		08/27/10	DC	n/a	n/a	V5V550

The QC reported here applies to the following samples: Method: SW846 8260B

D16893-1, D16893-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	2200	2150	98	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	82%	70-130%
460-00-4	4-Bromofluorobenzene	86%	70-130%
17060-07-0	1,2-Dichloroethane-D4	84%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D16893
Account: CIGCOCS Colorado Interstate Gas
Project: Colorado Interstate Gas

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D16893-1MS	5V10045.D	1	08/27/10	DC	n/a	n/a	V5V550
D16893-1MSD	5V10046.D	1	08/27/10	DC	n/a	n/a	V5V550
D16893-1	5V10044.D	1	08/27/10	DC	n/a	n/a	V5V550

The QC reported here applies to the following samples:

Method: SW846 8260B

D16893-1, D16893-2

CAS No.	Compound	D16893-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		3870	3680	95	4040	104	9	55-140/30
100-41-4	Ethylbenzene	ND		3870	3960	102	4250	110	7	56-139/30
108-88-3	Toluene	ND		3870	3790	98	4100	106	8	57-144/30
	m,p-Xylene	ND		3870	3680	95	4010	104	9	47-130/30
95-47-6	o-Xylene	ND		3870	3660	95	3920	101	7	51-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D16893-1	Limits
2037-26-5	Toluene-D8	82%	81%	81%	70-130%
460-00-4	4-Bromofluorobenzene	93%	96%	82%	70-130%
17060-07-0	1,2-Dichloroethane-D4	74%	82%	81%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D16893
Account: CIGCOCS Colorado Interstate Gas
Project: Colorado Interstate Gas

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D16893-1MS	5V10047.D	1	08/27/10	DC	n/a	n/a	V5V550
D16893-1MSD	5V10048.D	1	08/27/10	DC	n/a	n/a	V5V550
D16893-1	5V10044.D	1	08/27/10	DC	n/a	n/a	V5V550

The QC reported here applies to the following samples: Method: SW846 8260B

D16893-1, D16893-2

CAS No.	Compound	D16893-1 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		170000	157000	92	171000	100	9	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D16893-1	Limits
2037-26-5	Toluene-D8	77%	81%	81%	70-130%
460-00-4	4-Bromofluorobenzene	83%	87%	82%	70-130%
17060-07-0	1,2-Dichloroethane-D4	78%	79%	81%	70-130%



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D16893
Account: CIGCOCS - Colorado Interstate Gas
Project: Colorado Interstate Gas

QC Batch ID: MP2761
Matrix Type: AQUEOUS

Methods: LADNR29B, SW846 6010B
Units: ug/l

Prep Date: 08/31/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	500	35	250		
Antimony	150	8.5	65		
Arsenic	130	14	33		
Barium	50	.7	12		
Beryllium	50	7	22		
Boron	250	18	93		
Cadmium	50	1.1	6		
Calcium	2000	85	46	116	<2000
Chromium	50	1.4	8		
Cobalt	25	2.4	1.5		
Copper	25	8	14		
Iron	350	39	50		
Lead	250	6.5	16		
Lithium	10	3.8	8		
Magnesium	1000	29	62	-13	<1000
Manganese	25	1.1	3.5		
Molybdenum	50	2.1	6		
Nickel	150	1.9	3		
Phosphorus	500	75	270		
Potassium	5000	1900	2700		
Selenium	250	14	36		
Silicon	250	60	100		
Silver	150	4.9	1.5		
Sodium	2000	1200	110	-470	<2000
Strontium	25	.46	17		
Thallium	50	16	11		
Tin	250	70	22		
Titanium	50	.49	3.5		
Uranium	250	11	20		
Vanadium	50	1.4	1.5		
Zinc	150	3.8	8.5		

Associated samples MP2761: D16893-1A, D16893-2A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D16893
Account: CIGCOCS - Colorado Interstate Gas
Project: Colorado Interstate Gas

QC Batch ID: MP2761
Matrix Type: AQUEOUS

Methods: LADNR29B, SW846 6010B
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

6.1.1

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D16893
 Account: CIGCOCS - Colorado Interstate Gas
 Project: Colorado Interstate Gas

QC Batch ID: MP2761
 Matrix Type: AQUEOUS

Methods: LADNR29B, SW846 6010B
 Units: ug/l

Prep Date: 08/31/10

Metal	D16864-1A Original MS		SpikeLot MPICPALL % Rec		QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium	39700	165000	125000	100.2	75-125
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium	5370	126000	125000	96.5	75-125
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	8290	136000	125000	102.2	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP2761: D16893-1A, D16893-2A

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D16893
Account: CIGCOCS - Colorado Interstate Gas
Project: Colorado Interstate Gas

QC Batch ID: MP2761
Matrix Type: AQUEOUS

Methods: LADNR29B, SW846 6010B
Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

6.1.2

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D16893
 Account: CIGCOCS - Colorado Interstate Gas
 Project: Colorado Interstate Gas

QC Batch ID: MP2761
 Matrix Type: AQUEOUS

Methods: LADNR29B, SW846 6010B
 Units: ug/l

Prep Date: 08/31/10

Metal	D16864-1A Original	MSD	Spikelot MPICPAL	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	39700	161000	125000	97.0	2.5	20
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium	5370	121000	125000	92.5	4.0	20
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium	8290	132000	125000	99.0	3.0	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP2761: D16893-1A, D16893-2A

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D16893
Account: CIGCOCS - Colorado Interstate Gas
Project: Colorado Interstate Gas

QC Batch ID: MP2761
Matrix Type: AQUEOUS

Methods: LADNR29B, SW846 6010B
Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

6.1.2

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SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D16893
Account: CIGCOCS - Colorado Interstate Gas
Project: Colorado Interstate Gas

QC Batch ID: MP2761
Matrix Type: AQUEOUS

Methods: LADNR29B, SW846 6010B
Units: ug/l

Prep Date: 08/31/10

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	123000	125000	98.4	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	116000	125000	92.8	80-120
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	123000	125000	98.4	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP2761: D16893-1A, D16893-2A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D16893
Account: CIGCOCS - Colorado Interstate Gas
Project: Colorado Interstate Gas

QC Batch ID: MP2761
Matrix Type: AQUEOUS

Methods: LADNR29B, SW846 6010B
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

6.1.3

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General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D16893
Account: CIGCOCS - Colorado Interstate Gas
Project: Colorado Interstate Gas

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Specific Conductivity	GP2684/GN6156			umhos/cm	9984	9990	100.1	90-110%
pH	GN6122			su	8.00	7.98	99.8	99.3-100.7%
pH	GN6122			su	8.00	7.98	99.8	99.3-100.7%
pH	GN6123			su	8.00	7.98	99.8	99.3-100.7%

Associated Samples:
Batch GN6122: D16893-1A
Batch GN6123: D16893-2A
Batch GP2684: D16893-1A, D16893-2A
(*) Outside of QC limits

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