

### Technical Report for

## Colorado Interstate Gas

### Flank Storage Flowline Strike

SGS Accutest Job Number: D98000

Sampling Date: 09/11/17

#### Report to:

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Total number of pages in report: 52



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



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Laboratory Director

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Certifications: CO (CO00049), ID (CO00049), NE (NE-OS-06-04), ND (R-027), NJ (CO007), OK (D9942)  
UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L)

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Test results relate only to samples analyzed.

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Sample Summary

Colorado Interstate Gas

Job No: D98000

Flank Storage Flowline Strike

| Sample Number | Collected Date | Time By   | Received | Matrix Code | Type  | Client Sample ID               |
|---------------|----------------|-----------|----------|-------------|-------|--------------------------------|
| D98000-1      | 09/11/17       | 11:38 JCM | 09/15/17 | SO          | Solid | FLANK FLOWLINE BTM COMP 01     |
| D98000-1A     | 09/11/17       | 11:38 JCM | 09/15/17 | SO          | Solid | FLANK FLOWLINE BTM COMP 01     |
| D98000-2      | 09/11/17       | 11:40 JCM | 09/15/17 | SO          | Solid | FLANK FLOWLINE WALLS COMP 01   |
| D98000-2A     | 09/11/17       | 11:40 JCM | 09/15/17 | SO          | Solid | FLANK FLOWLINE WALLS COMP 01   |
| D98000-3      | 09/11/17       | 11:45 JCM | 09/15/17 | SO          | Solid | FLANK PW IMPACTED SOIL COMP 01 |
| D98000-3A     | 09/11/17       | 11:45 JCM | 09/15/17 | SO          | Solid | FLANK PW IMPACTED SOIL COMP 01 |

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

## CASE NARRATIVE / CONFORMANCE SUMMARY

2

**Client:** Colorado Interstate Gas

**Job No** D98000

**Site:** Flank Storage Flowline Strike

**Report Date** 9/22/2017 4:27:38 PM

On 09/15/2017, 3 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS Accutest Mountain States (SAMS) at a temperature of 3.4 °C. The samples were intact and properly preserved, unless noted below. An SAMS Job Number of D98000 was assigned to the project. The lab sample ID, client sample ID, and date 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:** V5V2412

- All samples were analyzed within the recommended method holding time.
- Sample(s) D97961-1MS, D97961-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

### Volatiles by GC By Method SW846 8015B

**Matrix:** SO

**Batch ID:** GGA1918

- All samples were analyzed within the recommended method holding time.
- Sample(s) D97961-3MS, D97961-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

### Extractables by GC By Method SW846-8015B

**Matrix:** SO

**Batch ID:** OP15498

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D98000-1MS, D98000-1MSD were used as the QC samples indicated.

### Metals By Method SW846 6010C

**Matrix:** AQ

**Batch ID:** MP23053

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D98038-2AMS, D98038-2AMSD, D98038-2ASDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- The serial dilution RPD(s) for Magnesium are outside control limits for sample MP23053-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

### Wet Chemistry By Method SM2540G-2011 M

**Matrix:** SO

**Batch ID:** GN40203

- Sample(s) D98000-3DUP were used as the QC samples for the Solids, Percent analysis.

Friday, September 22, 2017

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**Wet Chemistry By Method SW846 9045D****Matrix:** SO**Batch ID:** GN40256

- The following samples were run outside of holding time for method SW846 9045D: D98000-1A, D98000-2A, D98000-3A  
Analysis performed past recommended hold time.

**Wet Chemistry By Method USDA HANDBOOK 60****Matrix:** SO**Batch ID:** MP23053

- D98000-1A, -2A and -3A for Sodium Adsorption Ratio: Calculated as:  $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$

SAMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SAMS'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.

SAMS 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 SAMS indicated via signature on the report cover.

## Summary of Hits

Page 1 of 1

**Job Number:** D98000  
**Account:** Colorado Interstate Gas  
**Project:** Flank Storage Flowline Strike  
**Collected:** 09/11/17



| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

### D98000-1 FLANK FLOWLINE BTM COMP 01

No hits reported in this sample.

### D98000-1A FLANK FLOWLINE BTM COMP 01

|                                      |       |     |          |                   |
|--------------------------------------|-------|-----|----------|-------------------|
| Calcium                              | 73.8  | 2.0 | mg/l     | SW846 6010C       |
| Magnesium                            | 9.72  | 1.0 | mg/l     | SW846 6010C       |
| Sodium                               | 30.5  | 2.0 | mg/l     | SW846 6010C       |
| Specific Conductivity                | 657   | 1.0 | umhos/cm | SM 2510B-2011 MOD |
| Sodium Adsorption Ratio <sup>a</sup> | 0.885 |     | ratio    | USDA HANDBOOK 60  |
| pH <sup>b</sup>                      | 8.49  |     | su       | SW846 9045D       |

### D98000-2 FLANK FLOWLINE WALLS COMP 01

No hits reported in this sample.

### D98000-2A FLANK FLOWLINE WALLS COMP 01

|                                      |       |     |          |                   |
|--------------------------------------|-------|-----|----------|-------------------|
| Calcium                              | 55.3  | 2.0 | mg/l     | SW846 6010C       |
| Magnesium                            | 6.94  | 1.0 | mg/l     | SW846 6010C       |
| Sodium                               | 8.78  | 2.0 | mg/l     | SW846 6010C       |
| Specific Conductivity                | 355   | 1.0 | umhos/cm | SM 2510B-2011 MOD |
| Sodium Adsorption Ratio <sup>a</sup> | 0.296 |     | ratio    | USDA HANDBOOK 60  |
| pH <sup>b</sup>                      | 8.68  |     | su       | SW846 9045D       |

### D98000-3 FLANK PW IMPACTED SOIL COMP 01

No hits reported in this sample.

### D98000-3A FLANK PW IMPACTED SOIL COMP 01

|                                      |       |     |          |                   |
|--------------------------------------|-------|-----|----------|-------------------|
| Calcium                              | 49.1  | 2.0 | mg/l     | SW846 6010C       |
| Magnesium                            | 6.31  | 1.0 | mg/l     | SW846 6010C       |
| Sodium                               | 6.52  | 2.0 | mg/l     | SW846 6010C       |
| Specific Conductivity                | 303   | 1.0 | umhos/cm | SM 2510B-2011 MOD |
| Sodium Adsorption Ratio <sup>a</sup> | 0.233 |     | ratio    | USDA HANDBOOK 60  |
| pH <sup>b</sup>                      | 8.58  |     | su       | SW846 9045D       |

(a) Calculated as:  $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$

(b) Analysis performed past recommended hold time.

**Sample Results**

**Report of Analysis**

## Report of Analysis

|                          |                               |                        |          |
|--------------------------|-------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK FLOWLINE BTM COMP 01    | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Lab Sample ID:</b>    | D98000-1                      | <b>Date Received:</b>  | 09/15/17 |
| <b>Matrix:</b>           | SO - Solid                    | <b>Percent Solids:</b> | 98.8     |
| <b>Method:</b>           | SW846 8260B                   |                        |          |
| <b>Project:</b>          | Flank Storage Flowline Strike |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5V43557.D | 1  | 09/20/17 15:01 | MB | n/a       | n/a        | V5V2412          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 5.08 g         | 5.0 ml       |
| Run #2 |                |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL  | MDL  | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene        | ND     | 1.0 | 0.50 | ug/kg |   |
| 108-88-3  | Toluene        | ND     | 2.0 | 1.0  | ug/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 2.0 | 0.50 | ug/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 2.2 | 1.0  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 70-130% |
| 2037-26-5  | Toluene-D8            | 91%    |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 65-142% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110%   |        | 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

|                          |                               |  |  |  |  |                        |          |
|--------------------------|-------------------------------|--|--|--|--|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK FLOWLINE BTM COMP 01    |  |  |  |  | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Lab Sample ID:</b>    | D98000-1                      |  |  |  |  | <b>Date Received:</b>  | 09/15/17 |
| <b>Matrix:</b>           | SO - Solid                    |  |  |  |  | <b>Percent Solids:</b> | 98.8     |
| <b>Method:</b>           | SW846 8015B                   |  |  |  |  |                        |          |
| <b>Project:</b>          | Flank Storage Flowline Strike |  |  |  |  |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | GA39738.D | 1  | 09/15/17 18:00 | MB | n/a       | n/a        | GGA1918          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.1 g          | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

| CAS No. | Compound         | Result | RL | MDL | Units | Q |
|---------|------------------|--------|----|-----|-------|---|
|         | TPH-GRO (C6-C10) | ND     | 10 | 5.0 | mg/kg |   |

| CAS No.  | Surrogate Recoveries   | Run# 1 | Run# 2 | Limits  |
|----------|------------------------|--------|--------|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 107%   |        | 60-140% |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
RL = Reporting Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                               |  |  |                        |          |
|--------------------------|-------------------------------|--|--|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK FLOWLINE BTM COMP 01    |  |  |                        |          |
| <b>Lab Sample ID:</b>    | D98000-1                      |  |  | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Matrix:</b>           | SO - Solid                    |  |  | <b>Date Received:</b>  | 09/15/17 |
| <b>Method:</b>           | SW846-8015B SW846 3546        |  |  | <b>Percent Solids:</b> | 98.8     |
| <b>Project:</b>          | Flank Storage Flowline Strike |  |  |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | FI57690.D | 1  | 09/18/17 13:54 | RB | 09/18/17  | OP15498    | GFI2420          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 20.0 g         | 1.0 ml       |
| Run #2 |                |              |

| CAS No. | Compound             | Result | RL     | MDL     | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
|         | TPH-DRO (C10-C28)    | ND     | 10     | 9.1     | mg/kg |   |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 84-15-1 | o-Terphenyl          | 89%    |        | 41-134% |       |   |

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

|                          |                               |                        |          |
|--------------------------|-------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK FLOWLINE BTM COMP 01    | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Lab Sample ID:</b>    | D98000-1A                     | <b>Date Received:</b>  | 09/15/17 |
| <b>Matrix:</b>           | SO - Solid                    | <b>Percent Solids:</b> | 98.8     |
| <b>Project:</b>          | Flank Storage Flowline Strike |                        |          |

SAR Metals Analysis

| Analyte   | Result | RL  | Units | DF | Prep     | Analyzed By | Method                   | Prep Method                |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|----------------------------|
| Calcium   | 73.8   | 2.0 | mg/l  | 1  | 09/20/17 | 09/20/17 SB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |
| Magnesium | 9.72   | 1.0 | mg/l  | 1  | 09/20/17 | 09/20/17 SB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |
| Sodium    | 30.5   | 2.0 | mg/l  | 1  | 09/20/17 | 09/20/17 SB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |

(1) Instrument QC Batch: MA9043  
(2) Prep QC Batch: MP23053

RL = Reporting Limit

Report of Analysis

|                          |                               |                        |          |
|--------------------------|-------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK FLOWLINE BTM COMP 01    | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Lab Sample ID:</b>    | D98000-1A                     | <b>Date Received:</b>  | 09/15/17 |
| <b>Matrix:</b>           | SO - Solid                    | <b>Percent Solids:</b> | 98.8     |
| <b>Project:</b>          | Flank Storage Flowline Strike |                        |          |

General Chemistry

| Analyte                              | Result | RL  | Units    | DF | Analyzed       | By | Method            |
|--------------------------------------|--------|-----|----------|----|----------------|----|-------------------|
| <b>prep: DEPT.OF AG, BOOK N9</b>     |        |     |          |    |                |    |                   |
| Specific Conductivity                | 657    | 1.0 | umhos/cm | 1  | 09/20/17       | JD | SM 2510B-2011 MOD |
| Sodium Adsorption Ratio <sup>a</sup> | 0.885  |     | ratio    | 1  | 09/20/17 13:36 | SB | USDA HANDBOOK 60  |
| pH <sup>b</sup>                      | 8.49   |     | su       | 1  | 09/20/17 09:30 | SK | SW846 9045D       |

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]  
(b) Analysis performed past recommended hold time.

RL = Reporting Limit

## Report of Analysis

|                          |                               |                        |          |
|--------------------------|-------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK FLOWLINE WALLS COMP 01  | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Lab Sample ID:</b>    | D98000-2                      | <b>Date Received:</b>  | 09/15/17 |
| <b>Matrix:</b>           | SO - Solid                    | <b>Percent Solids:</b> | 98.7     |
| <b>Method:</b>           | SW846 8260B                   |                        |          |
| <b>Project:</b>          | Flank Storage Flowline Strike |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5V43558.D | 1  | 09/20/17 15:26 | MB | n/a       | n/a        | V5V2412          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 5.05 g         | 5.0 ml       |
| Run #2 |                |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL  | MDL  | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene        | ND     | 1.0 | 0.50 | ug/kg |   |
| 108-88-3  | Toluene        | ND     | 2.0 | 1.0  | ug/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 2.0 | 0.50 | ug/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 2.2 | 1.0  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 70-130% |
| 2037-26-5  | Toluene-D8            | 90%    |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 93%    |        | 65-142% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107%   |        | 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

|                          |                               |  |  |                                |
|--------------------------|-------------------------------|--|--|--------------------------------|
| <b>Client Sample ID:</b> | FLANK FLOWLINE WALLS COMP 01  |  |  |                                |
| <b>Lab Sample ID:</b>    | D98000-2                      |  |  | <b>Date Sampled:</b> 09/11/17  |
| <b>Matrix:</b>           | SO - Solid                    |  |  | <b>Date Received:</b> 09/15/17 |
| <b>Method:</b>           | SW846 8015B                   |  |  | <b>Percent Solids:</b> 98.7    |
| <b>Project:</b>          | Flank Storage Flowline Strike |  |  |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | GA39739.D | 1  | 09/15/17 18:35 | MB | n/a       | n/a        | GGA1918          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume | Methanol Aliquot |
|--------|----------------|--------------|------------------|
| Run #1 | 5.1 g          | 5.0 ml       | 100 ul           |
| Run #2 |                |              |                  |

| CAS No. | Compound         | Result | RL | MDL | Units | Q |
|---------|------------------|--------|----|-----|-------|---|
|         | TPH-GRO (C6-C10) | ND     | 10 | 5.1 | mg/kg |   |

| CAS No.  | Surrogate Recoveries   | Run# 1 | Run# 2 | Limits  |
|----------|------------------------|--------|--------|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 106%   |        | 60-140% |

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
RL = Reporting Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.3  
4

Report of Analysis

|                          |                               |  |  |                        |          |
|--------------------------|-------------------------------|--|--|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK FLOWLINE WALLS COMP 01  |  |  |                        |          |
| <b>Lab Sample ID:</b>    | D98000-2                      |  |  | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Matrix:</b>           | SO - Solid                    |  |  | <b>Date Received:</b>  | 09/15/17 |
| <b>Method:</b>           | SW846-8015B SW846 3546        |  |  | <b>Percent Solids:</b> | 98.7     |
| <b>Project:</b>          | Flank Storage Flowline Strike |  |  |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | FI57683.D | 1  | 09/18/17 11:13 | RB | 09/18/17  | OP15498    | GFI2421          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 20.0 g         | 1.0 ml       |
| Run #2 |                |              |

| CAS No. | Compound             | Result | RL     | MDL     | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
|         | TPH-DRO (C10-C28)    | ND     | 10     | 9.1     | mg/kg |   |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 84-15-1 | o-Terphenyl          | 95%    |        | 41-134% |       |   |

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: FLANK FLOWLINE WALLS COMP 01

Lab Sample ID: D98000-2A

Matrix: SO - Solid

Date Sampled: 09/11/17

Date Received: 09/15/17

Percent Solids: 98.7

Project: Flank Storage Flowline Strike

SAR Metals Analysis

| Analyte   | Result | RL  | Units | DF | Prep     | Analyzed By | Method                   | Prep Method                |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|----------------------------|
| Calcium   | 55.3   | 2.0 | mg/l  | 1  | 09/20/17 | 09/20/17 SB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |
| Magnesium | 6.94   | 1.0 | mg/l  | 1  | 09/20/17 | 09/20/17 SB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |
| Sodium    | 8.78   | 2.0 | mg/l  | 1  | 09/20/17 | 09/20/17 SB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |

(1) Instrument QC Batch: MA9043

(2) Prep QC Batch: MP23053

RL = Reporting Limit



Report of Analysis

Client Sample ID: FLANK FLOWLINE WALLS COMP 01  
Lab Sample ID: D98000-2A  
Matrix: SO - Solid  
Project: Flank Storage Flowline Strike

Date Sampled: 09/11/17  
Date Received: 09/15/17  
Percent Solids: 98.7

General Chemistry

| Analyte                              | Result | RL  | Units    | DF | Analyzed       | By | Method            |
|--------------------------------------|--------|-----|----------|----|----------------|----|-------------------|
| prep: DEPT.OF AG, BOOK N9            |        |     |          |    |                |    |                   |
| Specific Conductivity                | 355    | 1.0 | umhos/cm | 1  | 09/20/17       | JD | SM 2510B-2011 MOD |
| Sodium Adsorption Ratio <sup>a</sup> | 0.296  |     | ratio    | 1  | 09/20/17 13:54 | SB | USDA HANDBOOK 60  |
| pH <sup>b</sup>                      | 8.68   |     | su       | 1  | 09/20/17 09:30 | SK | SW846 9045D       |

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]  
(b) Analysis performed past recommended hold time.

RL = Reporting Limit

## Report of Analysis

|                          |                                |                        |          |
|--------------------------|--------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK PW IMPACTED SOIL COMP 01 | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Lab Sample ID:</b>    | D98000-3                       | <b>Date Received:</b>  | 09/15/17 |
| <b>Matrix:</b>           | SO - Solid                     | <b>Percent Solids:</b> | 98.7     |
| <b>Method:</b>           | SW846 8260B                    |                        |          |
| <b>Project:</b>          | Flank Storage Flowline Strike  |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 5V43559.D | 1  | 09/20/17 15:50 | MB | n/a       | n/a        | V5V2412          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 5.04 g         | 5.0 ml       |
| Run #2 |                |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL  | MDL  | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene        | ND     | 1.0 | 0.50 | ug/kg |   |
| 108-88-3  | Toluene        | ND     | 2.0 | 1.0  | ug/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 2.0 | 0.50 | ug/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 2.2 | 1.0  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 70-130% |
| 2037-26-5  | Toluene-D8            | 93%    |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 92%    |        | 65-142% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109%   |        | 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

|                          |                                |  |  |  |  |                        |          |
|--------------------------|--------------------------------|--|--|--|--|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK PW IMPACTED SOIL COMP 01 |  |  |  |  | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Lab Sample ID:</b>    | D98000-3                       |  |  |  |  | <b>Date Received:</b>  | 09/15/17 |
| <b>Matrix:</b>           | SO - Solid                     |  |  |  |  | <b>Percent Solids:</b> | 98.7     |
| <b>Method:</b>           | SW846 8015B                    |  |  |  |  |                        |          |
| <b>Project:</b>          | Flank Storage Flowline Strike  |  |  |  |  |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | GA39740.D | 1  | 09/15/17 19:10 | MB | n/a       | n/a        | GGA1918          |
| Run #2 |           |    |                |    |           |            |                  |

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

| CAS No. | Compound         | Result | RL | MDL | Units | Q |
|---------|------------------|--------|----|-----|-------|---|
|         | TPH-GRO (C6-C10) | ND     | 10 | 5.1 | mg/kg |   |

| CAS No.  | Surrogate Recoveries   | Run# 1 | Run# 2 | Limits  |
|----------|------------------------|--------|--------|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 107%   |        | 60-140% |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

4.5  
4

Report of Analysis

|                          |                                |  |  |  |                        |          |
|--------------------------|--------------------------------|--|--|--|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK PW IMPACTED SOIL COMP 01 |  |  |  |                        |          |
| <b>Lab Sample ID:</b>    | D98000-3                       |  |  |  | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Matrix:</b>           | SO - Solid                     |  |  |  | <b>Date Received:</b>  | 09/15/17 |
| <b>Method:</b>           | SW846-8015B SW846 3546         |  |  |  | <b>Percent Solids:</b> | 98.7     |
| <b>Project:</b>          | Flank Storage Flowline Strike  |  |  |  |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | FI57685.D | 1  | 09/18/17 11:53 | RB | 09/18/17  | OP15498    | GFI2421          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 20.0 g         | 1.0 ml       |
| Run #2 |                |              |

| CAS No. | Compound             | Result | RL     | MDL     | Units | Q |
|---------|----------------------|--------|--------|---------|-------|---|
|         | TPH-DRO (C10-C28)    | ND     | 10     | 9.1     | mg/kg |   |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits  |       |   |
| 84-15-1 | o-Terphenyl          | 96%    |        | 41-134% |       |   |

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

4.5  
4

Report of Analysis

Client Sample ID: FLANK PW IMPACTED SOIL COMP 01

Lab Sample ID: D98000-3A

Matrix: SO - Solid

Project: Flank Storage Flowline Strike

Date Sampled: 09/11/17

Date Received: 09/15/17

Percent Solids: 98.7

SAR Metals Analysis

| Analyte   | Result | RL  | Units | DF | Prep     | Analyzed By | Method                   | Prep Method                |
|-----------|--------|-----|-------|----|----------|-------------|--------------------------|----------------------------|
| Calcium   | 49.1   | 2.0 | mg/l  | 1  | 09/20/17 | 09/20/17 SB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |
| Magnesium | 6.31   | 1.0 | mg/l  | 1  | 09/20/17 | 09/20/17 SB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |
| Sodium    | 6.52   | 2.0 | mg/l  | 1  | 09/20/17 | 09/20/17 SB | SW846 6010C <sup>1</sup> | SW846 3010A/M <sup>2</sup> |

(1) Instrument QC Batch: MA9043

(2) Prep QC Batch: MP23053

RL = Reporting Limit

4.6  
4

Report of Analysis

|                          |                                |                        |          |
|--------------------------|--------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | FLANK PW IMPACTED SOIL COMP 01 | <b>Date Sampled:</b>   | 09/11/17 |
| <b>Lab Sample ID:</b>    | D98000-3A                      | <b>Date Received:</b>  | 09/15/17 |
| <b>Matrix:</b>           | SO - Solid                     | <b>Percent Solids:</b> | 98.7     |
| <b>Project:</b>          | Flank Storage Flowline Strike  |                        |          |

General Chemistry

| Analyte                              | Result | RL  | Units    | DF | Analyzed       | By | Method            |
|--------------------------------------|--------|-----|----------|----|----------------|----|-------------------|
| <b>prep: DEPT.OF AG, BOOK N9</b>     |        |     |          |    |                |    |                   |
| Specific Conductivity                | 303    | 1.0 | umhos/cm | 1  | 09/20/17       | JD | SM 2510B-2011 MOD |
| Sodium Adsorption Ratio <sup>a</sup> | 0.233  |     | ratio    | 1  | 09/20/17 13:59 | SB | USDA HANDBOOK 60  |
| pH <sup>b</sup>                      | 8.58   |     | su       | 1  | 09/20/17 09:30 | SK | SW846 9045D       |

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]  
(b) Analysis performed past recommended hold time.

RL = Reporting Limit

4.6  
4

## Misc. Forms

5

## Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

Accutest Mountain States, 4036 Youngfield Street, Wheat Ridge CO 80033

[illegible]

## D98000: Chain of Custody

Page 1 of 2



## SGS Accutest Sample Receipt Summary

Job Number: D98000

Client: EVRAZ

Project: FLANK STORAGE FLOWLINE STRIKE

Date / Time Received: 9/15/2017 10:20:00 AM

Delivery Method:

Airbill #'s: ups

Cooler Temps (Initial/Adjusted): #1: (3.4/3.4):

### Cooler Security

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: | IR Gun;                             |                          |
| 3. Cooler media:             | Ice (Bag)                           |                          |
| 4. No. Coolers:              | 1                                   |                          |

### Quality Control Preservation

Y or N N/A

- |                                 |                                     |                          |                                     |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC:    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" 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"/> |

Comments

### 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 recvd 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"/> |

D98000: Chain of Custody

Page 2 of 2

## MS Volatiles

### 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:** D98000

**Account:** CIGCOCS Colorado Interstate Gas

**Project:** Flank Storage Flowline Strike

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5V2412-MB | 5V43548.D | 1  | 09/20/17 | MB | n/a       | n/a        | V5V2412          |

The QC reported here applies to the following samples:

Method: SW846 8260B

D98000-1, D98000-2, D98000-3

| CAS No.   | Compound       | Result | RL  | MDL | Units | Q |
|-----------|----------------|--------|-----|-----|-------|---|
| 71-43-2   | Benzene        | ND     | 50  | 25  | ug/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 100 | 25  | ug/kg |   |
| 108-88-3  | Toluene        | ND     | 100 | 50  | ug/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 110 | 50  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 87% 70-130%  |
| 2037-26-5  | Toluene-D8            | 98% 70-130%  |
| 460-00-4   | 4-Bromofluorobenzene  | 94% 65-142%  |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% 70-130% |

Method Blank Summary

Job Number: D98000  
Account: CIGCOCS Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5V2412-MB | 5V43549.D | 1  | 09/20/17 | MB | n/a       | n/a        | V5V2412          |

The QC reported here applies to the following samples: Method: SW846 8260B  
D98000-1, D98000-2, D98000-3

| CAS No.   | Compound       | Result | RL  | MDL  | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene        | ND     | 1.0 | 0.50 | ug/kg |   |
| 100-41-4  | Ethylbenzene   | ND     | 2.0 | 0.50 | ug/kg |   |
| 108-88-3  | Toluene        | ND     | 2.0 | 1.0  | ug/kg |   |
| 1330-20-7 | Xylene (total) | ND     | 2.2 | 1.0  | ug/kg |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 96% 70-130%  |
| 2037-26-5  | Toluene-D8            | 95% 70-130%  |
| 460-00-4   | 4-Bromofluorobenzene  | 94% 65-142%  |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% 70-130% |

## Blank Spike Summary

Page 1 of 1

**Job Number:** D98000

**Account:** CIGCOCS Colorado Interstate Gas

**Project:** Flank Storage Flowline Strike

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V5V2412-BS | 5V43546.D | 1  | 09/20/17 | MB | n/a       | n/a        | V5V2412          |

The QC reported here applies to the following samples:

Method: SW846 8260B

D98000-1, D98000-2, D98000-3

| CAS No.   | Compound       | Spike<br>ug/kg | BSP<br>ug/kg | BSP<br>% | Limits |
|-----------|----------------|----------------|--------------|----------|--------|
| 71-43-2   | Benzene        | 50             | 43.3         | 87       | 70-130 |
| 100-41-4  | Ethylbenzene   | 50             | 46.0         | 92       | 70-130 |
| 108-88-3  | Toluene        | 50             | 43.5         | 87       | 70-130 |
| 1330-20-7 | Xylene (total) | 150            | 139          | 93       | 70-130 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102% | 70-130% |
| 2037-26-5  | Toluene-D8            | 102% | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 103% | 65-142% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 70-130% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

**Job Number:** D98000  
**Account:** CIGCOCS Colorado Interstate Gas  
**Project:** Flank Storage Flowline Strike

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| D97961-1MS  | 5V43551.D | 1  | 09/20/17 | MB | n/a       | n/a        | V5V2412          |
| D97961-1MSD | 5V43552.D | 1  | 09/20/17 | MB | n/a       | n/a        | V5V2412          |
| D97961-1    | 5V43550.D | 1  | 09/20/17 | MB | n/a       | n/a        | V5V2412          |

The QC reported here applies to the following samples:

Method: SW846 8260B

D98000-1, D98000-2, D98000-3

| CAS No.   | Compound       | D97961-1<br>ug/kg | Q | Spike<br>ug/kg | MS<br>ug/kg | MS<br>% | Spike<br>ug/kg | MSD<br>ug/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|----------------|-------------------|---|----------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| 71-43-2   | Benzene        | ND                |   | 66.8           | 51.5        | 77      | 67.4           | 47.8         | 71       | 7   | 43-135/30         |
| 100-41-4  | Ethylbenzene   | ND                |   | 66.8           | 53.5        | 80      | 67.4           | 49.4         | 73       | 8   | 30-144/30         |
| 108-88-3  | Toluene        | ND                |   | 66.8           | 50.9        | 76      | 67.4           | 47.5         | 70       | 7   | 27-144/30         |
| 1330-20-7 | Xylene (total) | ND                |   | 200            | 160         | 80      | 202            | 148          | 73       | 8   | 13-154/30         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | D97961-1 | Limits  |
|------------|-----------------------|------|------|----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 99%  | 100% | 98%      | 70-130% |
| 2037-26-5  | Toluene-D8            | 102% | 101% | 95%      | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 104% | 107% | 90%      | 65-142% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97%  | 109% | 104%     | 70-130% |

\* = Outside of Control Limits.

## GC Volatiles

## QC Data Summaries

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Includes the following where applicable:

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

Method Blank Summary

Job Number: D98000  
Account: CIGCOCS Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| GGA1918-MB | GA39730.D | 1  | 09/15/17 | MB | n/a       | n/a        | GGA1918          |

The QC reported here applies to the following samples: Method: SW846 8015B

D98000-1, D98000-2, D98000-3

| CAS No. | Compound         | Result | RL | MDL | Units | Q |
|---------|------------------|--------|----|-----|-------|---|
|         | TPH-GRO (C6-C10) | ND     | 10 | 5.0 | mg/kg |   |

| CAS No.  | Surrogate Recoveries   | Limits       |
|----------|------------------------|--------------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 106% 60-140% |

7.1.1  
7



Blank Spike Summary

Job Number: D98000  
Account: CIGCOCS Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| GGA1918-BS | GA39729.D | 1  | 09/15/17 | MB | n/a       | n/a        | GGA1918          |

The QC reported here applies to the following samples: Method: SW846 8015B

D98000-1, D98000-2, D98000-3

| CAS No. | Compound         | Spike<br>mg/kg | BSP<br>mg/kg | BSP<br>% | Limits |
|---------|------------------|----------------|--------------|----------|--------|
|         | TPH-GRO (C6-C10) | 110            | 124          | 113      | 70-130 |

| CAS No.  | Surrogate Recoveries   | BSP  | Limits  |
|----------|------------------------|------|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 117% | 60-140% |

\* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D98000  
Account: CIGCOCS Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| D97961-3MS  | GA39732.D | 1  | 09/15/17 | MB | n/a       | n/a        | GGA1918          |
| D97961-3MSD | GA39733.D | 1  | 09/15/17 | MB | n/a       | n/a        | GGA1918          |
| D97961-3    | GA39731.D | 1  | 09/15/17 | MB | n/a       | n/a        | GGA1918          |

The QC reported here applies to the following samples: Method: SW846 8015B

D98000-1, D98000-2, D98000-3

| CAS No. | Compound         | D97961-3<br>mg/kg | Q | Spike<br>mg/kg | MS<br>mg/kg | MS<br>% | Spike<br>mg/kg | MSD<br>mg/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|---------|------------------|-------------------|---|----------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
|         | TPH-GRO (C6-C10) | ND                |   | 133            | 146         | 110     | 133            | 146          | 110      | 0   | 70-131/30         |

| CAS No.  | Surrogate Recoveries   | MS   | MSD  | D97961-3 | Limits  |
|----------|------------------------|------|------|----------|---------|
| 120-82-1 | 1,2,4-Trichlorobenzene | 117% | 115% | 105%     | 60-140% |

\* = Outside of Control Limits.

## GC/LC Semi-volatiles

## QC Data Summaries



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Includes the following where applicable:

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

Method Blank Summary

Job Number: D98000  
Account: CIGCOCS Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP15498-MB | FI57682.D | 1  | 09/18/17 | RB | 09/18/17  | OP15498    | GFI2420          |

The QC reported here applies to the following samples: Method: SW846-8015B  
D98000-1, D98000-2, D98000-3

| CAS No. | Compound          | Result | RL | MDL | Units | Q |
|---------|-------------------|--------|----|-----|-------|---|
|         | TPH-DRO (C10-C28) | ND     | 10 | 9.0 | mg/kg |   |

| CAS No. | Surrogate Recoveries | Limits      |
|---------|----------------------|-------------|
| 84-15-1 | o-Terphenyl          | 93% 41-134% |

8.1.1  
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Blank Spike Summary

Job Number: D98000  
Account: CIGCOCS Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP15498-BS | FI57684.D | 1  | 09/18/17 | RB | 09/18/17  | OP15498    | GFI2420          |

The QC reported here applies to the following samples: Method: SW846-8015B

D98000-1, D98000-2, D98000-3

| CAS No. | Compound          | Spike<br>mg/kg | BSP<br>mg/kg | BSP<br>% | Limits |
|---------|-------------------|----------------|--------------|----------|--------|
|         | TPH-DRO (C10-C28) | 250            | 155          | 62       | 35-130 |

| CAS No. | Surrogate Recoveries | BSP | Limits  |
|---------|----------------------|-----|---------|
| 84-15-1 | o-Terphenyl          | 85% | 41-134% |

\* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D98000  
Account: CIGCOCS Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP15498-MS  | FI57686.D | 1  | 09/18/17 | RB | 09/18/17  | OP15498    | GFI2420          |
| OP15498-MSD | FI57688.D | 1  | 09/18/17 | RB | 09/18/17  | OP15498    | GFI2420          |
| D98000-1    | FI57690.D | 1  | 09/18/17 | RB | 09/18/17  | OP15498    | GFI2420          |

The QC reported here applies to the following samples: Method: SW846-8015B

D98000-1, D98000-2, D98000-3

| CAS No. | Compound          | D98000-1<br>mg/kg | Q | Spike<br>mg/kg | MS<br>mg/kg | MS<br>% | Spike<br>mg/kg | MSD<br>mg/kg | MSD<br>% | RPD | Limits<br>Rec/RPD |
|---------|-------------------|-------------------|---|----------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
|         | TPH-DRO (C10-C28) | ND                |   | 253            | 170         | 67      | 253            | 171          | 68       | 1   | 10-171/30         |

| CAS No. | Surrogate Recoveries | MS  | MSD | D98000-1 | Limits  |
|---------|----------------------|-----|-----|----------|---------|
| 84-15-1 | o-Terphenyl          | 91% | 87% | 89%      | 41-134% |

\* = Outside of Control Limits.

## 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: D98000  
Account: CIGCOCS - Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

QC Batch ID: MP23053  
Matrix Type: AQUEOUS

Methods: SW846 6010C, USDA HANDBOOK 60  
Units: ug/l

Prep Date: 09/20/17

| Metal      | RL   | IDL | MDL | MB<br>raw | final |
|------------|------|-----|-----|-----------|-------|
| Aluminum   | 500  | 230 | 65  |           |       |
| Antimony   | 150  | 70  | 44  |           |       |
| Arsenic    | 130  | 110 | 60  |           |       |
| Barium     | 50   | 1.5 | 6.5 |           |       |
| Beryllium  | 50   | 5   | 8   |           |       |
| Boron      | 250  | 17  | 18  |           |       |
| Cadmium    | 50   | 9.5 | 9.5 |           |       |
| Calcium    | 2000 | 33  | 50  | 122       | <2000 |
| Chromium   | 50   | 5.5 | 5.5 |           |       |
| Cobalt     | 25   | 14  | 6   |           |       |
| Copper     | 50   | 23  | 19  |           |       |
| Iron       | 350  | 45  | 35  |           |       |
| Lead       | 250  | 67  | 25  |           |       |
| Lithium    | 25   | 3   | 3.5 |           |       |
| Magnesium  | 1000 | 250 | 200 | 9.5       | <1000 |
| Manganese  | 25   | 2.5 | 4.5 |           |       |
| Molybdenum | 50   | 43  | 18  |           |       |
| Nickel     | 150  | 31  | 14  |           |       |
| Phosphorus | 500  | 460 | 170 |           |       |
| Potassium  | 5000 | 420 | 360 |           |       |
| Selenium   | 250  | 150 | 55  |           |       |
| Silicon    | 250  | 210 | 42  |           |       |
| Silver     | 150  | 3   | 3.1 |           |       |
| Sodium     | 2000 | 63  | 70  | 611       | <2000 |
| Strontium  | 25   | .5  | 1.5 |           |       |
| Thallium   | 50   | 85  | 40  |           |       |
| Tin        | 250  | 210 | 60  |           |       |
| Titanium   | 50   | 2.5 | 14  |           |       |
| Uranium    | 250  | 20  | 22  |           |       |
| Vanadium   | 50   | 4.5 | 3   |           |       |
| Zinc       | 150  | 45  | 18  |           |       |

Associated samples MP23053: D98000-1A, D98000-2A, D98000-3A

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



BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: D98000  
Account: CIGCOCS - Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

QC Batch ID: MP23053  
Matrix Type: AQUEOUS

Methods: SW846 6010C, USDA HANDBOOK 60  
Units: ug/l

Prep Date: 09/20/17

| Metal | RL | IDL | MDL | MB<br>raw | final |
|-------|----|-----|-----|-----------|-------|
|-------|----|-----|-----|-----------|-------|

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D98000  
 Account: CIGCOCS - Colorado Interstate Gas  
 Project: Flank Storage Flowline Strike

QC Batch ID: MP23053  
 Matrix Type: AQUEOUS

Methods: SW846 6010C, USDA HANDBOOK 60  
 Units: ug/l

Prep Date: 09/20/17

| Metal      | D98038-2A<br>Original MS |         | Spikelot<br>ICPAL2 | % Rec    | QC<br>Limits |
|------------|--------------------------|---------|--------------------|----------|--------------|
| Aluminum   |                          |         |                    |          |              |
| Antimony   |                          |         |                    |          |              |
| Arsenic    |                          |         |                    |          |              |
| Barium     |                          |         |                    |          |              |
| Beryllium  |                          |         |                    |          |              |
| Boron      |                          |         |                    |          |              |
| Cadmium    |                          |         |                    |          |              |
| Calcium    | 440000                   | 589000  | 125000             | 119.2    | 75-125       |
| Chromium   |                          |         |                    |          |              |
| Cobalt     |                          |         |                    |          |              |
| Copper     |                          |         |                    |          |              |
| Iron       |                          |         |                    |          |              |
| Lead       |                          |         |                    |          |              |
| Lithium    |                          |         |                    |          |              |
| Magnesium  | 271                      | 118000  | 125000             | 94.2     | 75-125       |
| Manganese  |                          |         |                    |          |              |
| Molybdenum |                          |         |                    |          |              |
| Nickel     |                          |         |                    |          |              |
| Phosphorus |                          |         |                    |          |              |
| Potassium  |                          |         |                    |          |              |
| Selenium   |                          |         |                    |          |              |
| Silicon    |                          |         |                    |          |              |
| Silver     |                          |         |                    |          |              |
| Sodium     | 3950000                  | 4510000 | 125000             | 448.0(a) | 75-125       |
| Strontium  |                          |         |                    |          |              |
| Thallium   |                          |         |                    |          |              |
| Tin        |                          |         |                    |          |              |
| Titanium   |                          |         |                    |          |              |
| Uranium    |                          |         |                    |          |              |
| Vanadium   |                          |         |                    |          |              |
| Zinc       |                          |         |                    |          |              |

Associated samples MP23053: D98000-1A, D98000-2A, D98000-3A

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D98000  
 Account: CIGCOCS - Colorado Interstate Gas  
 Project: Flank Storage Flowline Strike

QC Batch ID: MP23053  
 Matrix Type: AQUEOUS

Methods: SW846 6010C, USDA HANDBOOK 60  
 Units: ug/l

Prep Date: 09/20/17

| Metal | D98038-2A<br>Original MS | Spikelot<br>ICPALL2 | % Rec | QC<br>Limits |
|-------|--------------------------|---------------------|-------|--------------|
|-------|--------------------------|---------------------|-------|--------------|

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D98000  
 Account: CIGCOCS - Colorado Interstate Gas  
 Project: Flank Storage Flowline Strike

QC Batch ID: MP23053  
 Matrix Type: AQUEOUS

Methods: SW846 6010C, USDA HANDBOOK 60  
 Units: ug/l

Prep Date: 09/20/17

| Metal      | D98038-2A<br>Original MSD |         | Spikelot<br>ICPAL2 | % Rec | MSD<br>RPD | QC<br>Limit |
|------------|---------------------------|---------|--------------------|-------|------------|-------------|
| Aluminum   |                           |         |                    |       |            |             |
| Antimony   |                           |         |                    |       |            |             |
| Arsenic    |                           |         |                    |       |            |             |
| Barium     |                           |         |                    |       |            |             |
| Beryllium  |                           |         |                    |       |            |             |
| Boron      |                           |         |                    |       |            |             |
| Cadmium    |                           |         |                    |       |            |             |
| Calcium    | 440000                    | 543000  | 125000             | 82.4  | 8.1        | 20          |
| Chromium   |                           |         |                    |       |            |             |
| Cobalt     |                           |         |                    |       |            |             |
| Copper     |                           |         |                    |       |            |             |
| Iron       |                           |         |                    |       |            |             |
| Lead       |                           |         |                    |       |            |             |
| Lithium    |                           |         |                    |       |            |             |
| Magnesium  | 271                       | 117000  | 125000             | 93.4  | 0.9        | 20          |
| Manganese  |                           |         |                    |       |            |             |
| Molybdenum |                           |         |                    |       |            |             |
| Nickel     |                           |         |                    |       |            |             |
| Phosphorus |                           |         |                    |       |            |             |
| Potassium  |                           |         |                    |       |            |             |
| Selenium   |                           |         |                    |       |            |             |
| Silicon    |                           |         |                    |       |            |             |
| Silver     |                           |         |                    |       |            |             |
| Sodium     | 3950000                   | 4070000 | 125000             | 96.0  | 10.3       | 20          |
| Strontium  |                           |         |                    |       |            |             |
| Thallium   |                           |         |                    |       |            |             |
| Tin        |                           |         |                    |       |            |             |
| Titanium   |                           |         |                    |       |            |             |
| Uranium    |                           |         |                    |       |            |             |
| Vanadium   |                           |         |                    |       |            |             |
| Zinc       |                           |         |                    |       |            |             |

Associated samples MP23053: D98000-1A, D98000-2A, D98000-3A

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D98000  
 Account: CIGCOCS - Colorado Interstate Gas  
 Project: Flank Storage Flowline Strike

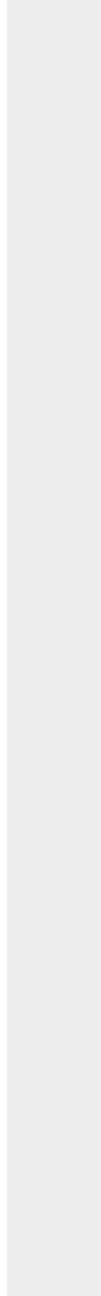
QC Batch ID: MP23053  
 Matrix Type: AQUEOUS

Methods: SW846 6010C, USDA HANDBOOK 60  
 Units: ug/l

Prep Date: 09/20/17

| Metal | D98038-2A<br>Original MSD | SpikeLot<br>ICPALL2 % Rec | MSD<br>RPD | QC<br>Limit |
|-------|---------------------------|---------------------------|------------|-------------|
|-------|---------------------------|---------------------------|------------|-------------|

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



## SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D98000  
Account: CIGCOCS - Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

QC Batch ID: MP23053  
Matrix Type: AQUEOUS

Methods: SW846 6010C, USDA HANDBOOK 60  
Units: ug/l

Prep Date: 09/20/17

| Metal      | BSP<br>Result | Spikelot<br>ICPALL2 | % Rec | QC<br>Limits |
|------------|---------------|---------------------|-------|--------------|
| Aluminum   |               |                     |       |              |
| Antimony   |               |                     |       |              |
| Arsenic    |               |                     |       |              |
| Barium     |               |                     |       |              |
| Beryllium  |               |                     |       |              |
| Boron      |               |                     |       |              |
| Cadmium    |               |                     |       |              |
| Calcium    | 123000        | 125000              | 98.4  | 80-120       |
| Chromium   |               |                     |       |              |
| Cobalt     |               |                     |       |              |
| Copper     |               |                     |       |              |
| Iron       |               |                     |       |              |
| Lead       |               |                     |       |              |
| Lithium    |               |                     |       |              |
| Magnesium  | 118000        | 125000              | 94.4  | 80-120       |
| Manganese  |               |                     |       |              |
| Molybdenum |               |                     |       |              |
| Nickel     |               |                     |       |              |
| Phosphorus |               |                     |       |              |
| Potassium  |               |                     |       |              |
| Selenium   |               |                     |       |              |
| Silicon    |               |                     |       |              |
| Silver     |               |                     |       |              |
| Sodium     | 129000        | 125000              | 103.2 | 80-120       |
| Strontium  |               |                     |       |              |
| Thallium   |               |                     |       |              |
| Tin        |               |                     |       |              |
| Titanium   |               |                     |       |              |
| Uranium    |               |                     |       |              |
| Vanadium   |               |                     |       |              |
| Zinc       |               |                     |       |              |

Associated samples MP23053: D98000-1A, D98000-2A, D98000-3A

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



# SERIAL DILUTION RESULTS SUMMARY

Login Number: D98000  
Account: CIGCOCS - Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

QC Batch ID: MP23053  
Matrix Type: AQUEOUS

Methods: SW846 6010C, USDA HANDBOOK 60  
Units: ug/l

Prep Date: 09/20/17

| Metal      | D98038-2A<br>Original SDL 1:5 |        | %DIF     | QC<br>Limits |
|------------|-------------------------------|--------|----------|--------------|
| Aluminum   |                               |        |          |              |
| Antimony   |                               |        |          |              |
| Arsenic    |                               |        |          |              |
| Barium     |                               |        |          |              |
| Beryllium  |                               |        |          |              |
| Boron      |                               |        |          |              |
| Cadmium    |                               |        |          |              |
| Calcium    | 87900                         | 86900  | 1.2      | 0-10         |
| Chromium   |                               |        |          |              |
| Cobalt     |                               |        |          |              |
| Copper     |                               |        |          |              |
| Iron       |                               |        |          |              |
| Lead       |                               |        |          |              |
| Lithium    |                               |        |          |              |
| Magnesium  | 54.1                          | 0.00   | 100.0(a) | 0-10         |
| Manganese  |                               |        |          |              |
| Molybdenum |                               |        |          |              |
| Nickel     |                               |        |          |              |
| Phosphorus |                               |        |          |              |
| Potassium  |                               |        |          |              |
| Selenium   |                               |        |          |              |
| Silicon    |                               |        |          |              |
| Silver     |                               |        |          |              |
| Sodium     | 789000                        | 794000 | 0.6      | 0-10         |
| Strontium  |                               |        |          |              |
| Thallium   |                               |        |          |              |
| Tin        |                               |        |          |              |
| Titanium   |                               |        |          |              |
| Uranium    |                               |        |          |              |
| Vanadium   |                               |        |          |              |
| Zinc       |                               |        |          |              |

Associated samples MP23053: D98000-1A, D98000-2A, D98000-3A

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



SERIAL DILUTION RESULTS SUMMARY

Login Number: D98000  
 Account: CIGCOCS - Colorado Interstate Gas  
 Project: Flank Storage Flowline Strike

QC Batch ID: MP23053  
 Matrix Type: AQUEOUS

Methods: SW846 6010C, USDA HANDBOOK 60  
 Units: ug/l

Prep Date: 09/20/17

|       |                  |      |        |
|-------|------------------|------|--------|
|       | D98038-2A        |      | QC     |
| Metal | Original SDL 1:5 | %DIF | Limits |

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

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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: D98000  
Account: CIGCOCS - Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

| Analyte               | Batch ID        | RL | MB<br>Result | Units    | Spike<br>Amount | BSP<br>Result | BSP<br>%Recov | QC<br>Limits |
|-----------------------|-----------------|----|--------------|----------|-----------------|---------------|---------------|--------------|
| Specific Conductivity | GP21205/GN40247 |    |              | umhos/cm | 9976            | 9860          | 98.8          | 90-110%      |
| pH                    | GN40256         |    |              | su       | 8.00            | 7.96          | 99.5          | 99.1-100.9%  |

Associated Samples:

Batch GN40256: D98000-1A, D98000-2A, D98000-3A

Batch GP21205: D98000-1A, D98000-2A, D98000-3A

(\*) Outside of QC limits

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: D98000  
Account: CIGCOCS - Colorado Interstate Gas  
Project: Flank Storage Flowline Strike

| Analyte         | Batch ID | QC Sample | Units | Original Result | DUP Result | RPD | QC Limits |
|-----------------|----------|-----------|-------|-----------------|------------|-----|-----------|
| Solids, Percent | GN40203  | D98000-3  | %     | 98.7            | 98.7       | 0.0 | 0-10%     |

Associated Samples:

Batch GN40203: D98000-1, D98000-2, D98000-3

(\*) Outside of QC limits