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Automated Report

Technical Report for

Approach Environmental, LLC

Comstock Oil & Gas, Desoto Parish, LA

Mason 21HZ#1

SGS Job Number: LA48927

Sampling Date: 10/18/18

Report to:

**Approach Environmental, LLC
151 Freestate Blvd., Suite B
Shreveport, LA 71107
marksm@approachenv.com**

ATTN: Mark S. Moore

Total number of pages in report: 14



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.

Ron Benjamin
Ron Benjamin
Lab Director

Client Service contact: Amy Jackson 337-237-4775

Certifications: LDEQ(2048), LDHH(LA150012), AR(14-045-04), AZ(AZ0805), FL(E87657), IL(200082), KY(#31), NC(487), SC(73004001), NJ(LA007), TX(T104704186-15-7), WV(257)

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Test results relate only to samples analyzed.

Table of Contents

-1-

| | |
|---|-----------|
| Section 1: Sample Summary | 3 |
| Section 2: Summary of Hits | 4 |
| Section 3: Sample Results | 5 |
| 3.1: LA48927-1: WATER SUPPLY WELL | 6 |
| Section 4: Misc. Forms | 7 |
| 4.1: Chain of Custody | 8 |
| Section 5: MS Volatiles - QC Data Summaries | 11 |
| 5.1: Method Blank Summary | 12 |
| 5.2: Blank Spike/Blank Spike Duplicate Summary | 13 |
| 5.3: Matrix Spike/Matrix Spike Duplicate Summary | 14 |

1

2

3

4

5



Sample Summary

Approach Environmental, LLC

Job No: LA48927

Comstock Oil & Gas, Desoto Parish, LA
Project No: Mason 21HZ#1

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|----------|----------|-------------|--------------|-------------------|
| LA48927-1 | 10/18/18 | 16:45 JM | 10/19/18 | AQ | Ground Water | WATER SUPPLY WELL |

Summary of Hits

Job Number: LA48927
Account: Approach Environmental, LLC
Project: Comstock Oil & Gas, Desoto Parish, LA
Collected: 10/18/18

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

LA48927-1 WATER SUPPLY WELL

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

| | |
|---|--------------------------------|
| Client Sample ID: WATER SUPPLY WELL | |
| Lab Sample ID: LA48927-1 | Date Sampled: 10/18/18 |
| Matrix: AQ - Ground Water | Date Received: 10/19/18 |
| Method: SW846 8260B | Percent Solids: n/a |
| Project: Comstock Oil & Gas, Desoto Parish, LA | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 1G086372.D | 1 | 10/23/18 12:37 | LS | n/a | n/a | V1G4559 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

Purgeable Aromatics

| CAS No. | Compound | Result | RL | Units | Q |
|-----------|----------------|--------|--------|-------|---|
| 71-43-2 | Benzene | ND | 0.0010 | mg/l | |
| 108-88-3 | Toluene | ND | 0.0010 | mg/l | |
| 100-41-4 | Ethylbenzene | ND | 0.0010 | mg/l | |
| 1330-20-7 | Xylene (total) | ND | 0.0020 | mg/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | | 84-124% |
| 2037-26-5 | Toluene-D8 | 95% | | 83-115% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 89-111% |

ND = Not detected
 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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest Inc.-Lafayette
500 Ambassador Caffery Pkwy, Scott, LA 70583
TEL:337-237-4775 FAX: 337-237-7838
www.accutest.com

FED-EX Tracking # Bottle Order Control #

Accutest Quote # LA48927 Accutest Job #

Client / Reporting Information, Project Information, Requested Analyses, Matrix Codes, Collection table with columns for Date, Time, COSMOPRAB, Matrix, # of bottles, and various analysis codes.

Turnaround Time (Business Days), Approved By (Accutest PM): I Date, Date Deliverable Information, Comments / Special Instructions (LABORATORY method verification limits set by the LAB is NECESSARY)

Sample Custody must be documented below each time samples change possession, including courier delivery. Includes fields for Requisitioned By, Date Time, Received By, and Date Time for multiple steps.

LA48927: Chain of Custody

Page 1 of 3



SHIP DATE: 18OCT18
ACT/AGT: 30.60 / BFE1922
DAD: 0859 / 0859
DIMS: 4.41 X 1.3 X 1.3 IN
BILL THIRD PARTY

ORIGIN: INDIA (318) 222-2424
1000 GRIMMETT DR
SHREVEPORT, LA 71107
UNITED STATES US

TO **SAMPLE RECEIVING**
SGS ACCUTEST
109 COMMISSION BLVD

LAFAYETTE LA 70508

REF: (937) 287-4776
REF: (937) 287-4776

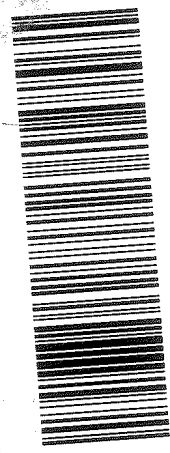


FRI - 19 OCT 8:00A
FIRST OVERNIGHT

2 of 2
MPS# 7833 2642 0485
OBEL
Metr# 8101 2870 6804

70508
LA-US
LFT

X1 LEFTA



① Verp (Kew) col (w)
BPS1

② Verp (Kew) col (w)
BPS1

LA48927: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: LA48927

Client: APPROACH

Project: COMSTOCK OIL & GAS

Date / Time Received: 10/19/2018 9:10:00 AM

Delivery Method: FedEx

Airbill #'s: 783326420485

Cooler Temps (Initial/Adjusted): #1: (1.6/1.6);

Cooler Security

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

Cooler Temperature

- | |
|---|
| <p><u>Y or N</u></p> <p>1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>2. Thermometer ID: <u>DV441;</u></p> <p>3. Cooler media: <u>Ice (direct contact)</u></p> <p>4. No. Coolers: <u>1</u></p> |
|---|

Quality Control Preservation

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

Sample Integrity - Documentation

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

Sample Integrity - Condition

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

Sample Integrity - Instructions

- | | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

4.1
4

MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: LA48927
Account: APPRLAS Approach Environmental, LLC
Project: Comstock Oil & Gas, Desoto Parish, LA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|------------|----|----------|----|-----------|------------|------------------|
| V1G4559-MB2 | 1G086368.D | 1 | 10/23/18 | LS | n/a | n/a | V1G4559 |

The QC reported here applies to the following samples:

Method: SW846 8260B

LA48927-1

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

| CAS No. | Surrogate Recoveries | | Limits |
|------------|-----------------------|------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 84-124% |
| 2037-26-5 | Toluene-D8 | 94% | 83-115% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | 89-111% |

Blank Spike/Blank Spike Duplicate Summary

Job Number: LA48927
 Account: APPRLAS Approach Environmental, LLC
 Project: Comstock Oil & Gas, Desoto Parish, LA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|------------|----|----------|----|-----------|------------|------------------|
| V1G4559-BS1 | 1G086362.D | 1 | 10/23/18 | LS | n/a | n/a | V1G4559 |
| V1G4559-BSD1 | 1G086364.D | 1 | 10/23/18 | LS | n/a | n/a | V1G4559 |

The QC reported here applies to the following samples:

Method: SW846 8260B

LA48927-1

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|-----------|----------------|---------------|-------------|----------|-------------|----------|-----|-------------------|
| 71-43-2 | Benzene | 20 | 19.8 | 99 | 20.5 | 103 | 3 | 82-119/30 |
| 100-41-4 | Ethylbenzene | 20 | 20.2 | 101 | 21.3 | 107 | 5 | 84-117/30 |
| 108-88-3 | Toluene | 20 | 20.6 | 103 | 21.9 | 110 | 6 | 80-121/30 |
| 1330-20-7 | Xylene (total) | 60 | 63.5 | 106 | 66.4 | 111 | 4 | 81-122/30 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|------------|-----------------------|------|------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 104% | 84-124% |
| 2037-26-5 | Toluene-D8 | 94% | 95% | 83-115% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 98% | 89-111% |

* = Outside of Control Limits.

5.2.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: LA48927
 Account: APPRLAS Approach Environmental, LLC
 Project: Comstock Oil & Gas, Desoto Parish, LA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|------------|----|----------|----|-----------|------------|------------------|
| LA48927-1MS | 1G086374.D | 5 | 10/23/18 | LS | n/a | n/a | V1G4559 |
| LA48927-1MSD | 1G086376.D | 5 | 10/23/18 | LS | n/a | n/a | V1G4559 |
| LA48927-1 | 1G086372.D | 1 | 10/23/18 | LS | n/a | n/a | V1G4559 |

The QC reported here applies to the following samples:

Method: SW846 8260B

LA48927-1

| CAS No. | Compound | LA48927-1 ug/l | Spike Q ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|-----------|----------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 71-43-2 | Benzene | ND | 100 | 96.8 | 97 | 100 | 91.8 | 92 | 5 | 31-161/15 |
| 100-41-4 | Ethylbenzene | ND | 100 | 97.0 | 97 | 100 | 93.7 | 94 | 3 | 47-146/30 |
| 108-88-3 | Toluene | ND | 100 | 100 | 100 | 100 | 93.6 | 94 | 7 | 36-155/17 |
| 1330-20-7 | Xylene (total) | ND | 300 | 302 | 101 | 300 | 288 | 96 | 5 | 41-154/29 |

| CAS No. | Surrogate Recoveries | MS | MSD | LA48927-1 | Limits |
|------------|-----------------------|------|------|-----------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 108% | 107% | 84-124% |
| 2037-26-5 | Toluene-D8 | 97% | 97% | 95% | 83-115% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 96% | 93% | 89-111% |

* = Outside of Control Limits.

5.3.1
5