SGS

Scott, LA

The results set forth herein are provided by SGS North America Inc.

Reissue #1
10/24/18

e-Hardcopy 2.0
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**
> **1000 Grimmett Drive**
> **Shreveport, LA 71107**
> **marksm@approachenv.com**
>
> **ATTN: Mark S. Moore**

Total number of pages in report: 15

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
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.

Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

SGS

October 24, 2018

Approach Environmental, LLC
ATTN: Mark Moore
1000 Grimmett Drive
Shreveport, LA 71107

RE: SGS Job #LA48927

Dear Mr. Moore,

The final report for SGS Job LA48927 has been amended from the original. This report replaces in its entirety any previously submitted copy.

The results for all samples are reported using the method detection limits (MDLs). Any concentrations detected between the MDL and reporting limit (RL) are qualified with a "J" for estimated concentration. The changes are included in this revised report.

Sincerely,

Amy Jackson
Environment, Health and Safety
Project Manager
SGS-Scott

SGS IS THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

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SGS North America Inc.

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
Analyte						

LA48927-1   WATER SUPPLY WELL

No hits reported in this sample.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Page 1 of 1

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		

	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							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00023	mg/l	
108-88-3	Toluene	ND	0.0010	0.00023	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00023	mg/l	
1330-20-7	Xylene (total)	ND	0.0020	0.00039	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   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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- **Chain of Custody**

SGS 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

PAGE 1 OF 1

FED-EX Tracking #

Bottle Order Control #

Accutest Quote #

Accutest Job # LA 48927

Client / Reporting Information

Company Name: APPROACH ENV

Street Address: 1000 Grimmett Dr.

City: Shreveport   State: LA   Zip:

Project Contact: MARIE MOOTO   E-mail:

Phone #: 318-222-2424   Fax #:

Sampler(s) Name(s): JOHN MACHIO   Phone #:

Project Information

Project Name: Comstock Oil + Gas

Street:

Billing Information (if different from Report to)
Company Name:

Street Address:

City   State   Zip

Project #: DESOTO PARISH   MASON 01H2 #1

Client Purchase Order #:

Project Manager:

Attention:

Requested Analyses

BTEX 8260
MOLD

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Date	Time	COMP/GRAB	Matrix	# of bottles	HCl	NaOH	ZnNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	BTEX 8260	MOLD					LAB USE ONLY
1	WATER Supply Well	10/18/18	16:45	GRAB	GW	5	X												X					5	
2	TRIP Blank	10/18/18	16:25	JAM	TB	2	X													X				2	

Turnaround Time (Business Days)

☐ Standard
☐ 5 Day RUSH
☐ 4 Day RUSH
☐ 3 Day RUSH
☑ 2 Day RUSH
☐ 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date: BPS1 (VW)

Data Deliverable Information

☐ Commercial "A" (Level 1)   ☐ TRRP
☐ Commercial "B" (Level 2)   ☐ RECAP
☐ FULT1 (Level 3+4)   ☑ Other _____
☐ REDT1 (Level 3+4)
☐ Commercial "C"

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

LABORATORY method detection
limits set by the LAB is
necessary
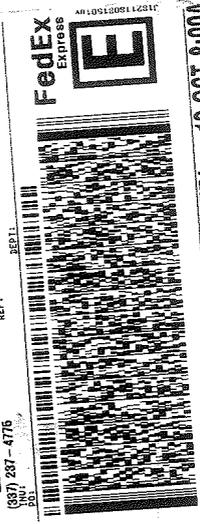
Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler 1	Date Time: 10/18/18 18:45	Received By FED EX 1	Relinquished By 2	Date Time: 10/19/18 0830	Received By 2
Relinquished by Sampler 3	Date Time: 10/19/18 0900	Received By 3	Relinquished By 4	Date Time:	Received By 4
Relinquished by 5	Date Time:	Received By 5	Custody Seal # Lincoln ☑ Intact ☐ Not intact	Preserved where applicable ☑	On Ice ☑ Cooler Temp. (1.6DM4e)

ORIGIN ID:SHVA (318) 222-2424
JOHN MAGGIO
APPROVED CHEMICAL
1000 GRIMMETT DR

SHREVEPORT, LA 71107
UNITED STATES US

TO SAMPLE RECEIVING
    SGS ACCUTEST
    109 COMMISSION BLVD

    LAFAYETTE LA 70508

(337) 237-4776
INV:
PO:
REF:
DEPT:

SHIP DATE: 18OCT18
ACTWGT: 30.60 LB
CAD: 0089497V/SSFE1822

BILL THIRD PARTY

DIMS: 24x14x13 IN

FedEx
Express

FRI — 19 OCT 8:00A
FIRST OVERNIGHT

70508
LFT
LA-US

2 of 2
MPS# 7833 2642 0485
Mstr# 8101 2970 6804

X1 LFTA

(5) 4 unl (HCl) ... BPSi

(2) 4 unl (HCl) ... BPSi

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	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Thermometer ID:	DV441;	
3. Cooler media:	Ice (direct contact)	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

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	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.39	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%

5.1.1

5

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%

5.2.1

5

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* = Outside of Control Limits.

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	Q	Spike 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.