

Scott, LA

Reissue #1 10/24/18

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

e-Hardcopy 2.0 Automated Report

Technical Report for

Approach Environmental, LLC

Comstock Oil & Gas, Desoto Parish, LA

Derrick 21HZ#1

SGS Job Number: LA48926



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



Ron Benjame

Ron Benjamin Lab Director

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.

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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1 of 15 LA48926



October 24, 2018

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

RE: SGS Job #LA48926

Dear Mr. Moore,

The final report for SGS Job LA48926 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,

Sma

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

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Sections:

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(J)

Table of Contents

-1-

Section 1: Sample Summary	4
Section 2: Summary of Hits	5
Section 3: Sample Results	6
3.1: LA48926-1: WATER SUPPLY WELL	7
Section 4: Misc. Forms	8
4.1: Chain of Custody	9
Section 5: MS Volatiles - QC Data Summaries	12
5.1: Method Blank Summary	13
5.2: Blank Spike/Blank Spike Duplicate Summary	14
5.3: Matrix Spike/Matrix Spike Duplicate Summary	15



Sample Summary

Approach Environmental, LLC

Job No: LA48926

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

Sample	Collected		Matrix		ix	Client
Number	Date	Time By	Received	Code	Туре	Sample ID
LA48926-1	10/18/18	14:45 JM	10/19/18	AQ	Water	WATER SUPPLY WELL



Summary of Hits

Job Number:	LA48926
Account:	Approach Environmental, LLC
Project:	Comstock Oil & Gas, Desoto Parish, LA
Collected:	10/18/18

Lab Sample ID	Client Sample ID	Result/					
Analyte		Qual	RL	MDL	Units	Method	

LA48926-1 WATER SUPPLY WELL

No hits reported in this sample.

N





Scott, LA

ω Section 3

Sample Results

Report of Analysis





SGS North America Inc.

CAS No.

17060-07-0

2037-26-5

460-00-4

Surrogate Recoveries

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

			Report	of An	f Analysis					
Client Sam Lab Sampl Matrix: Method: Project:	le ID: LA489 AQ - V SW846	Vater 8260B	WELL Gas, Desoto Parish	, LA		Date	I I	/18/18 /19/18 a		
Run #1 Run #2	File ID 2X0055981.D	DF 1	Analyzed 10/22/18 12:06	By AR	Prep Da n/a	te	Prep Batch n/a	Analytical Batch V2X1276		
Run #1 Run #2	Purge Volume 5.0 ml									
Purgeable	Aromatics									
CAS No.	Compound		Result	RL	MDL	Units	Q			
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)		ND ND ND ND	0.0010 0.0010 0.0010 0.0020	0.00023 0.00023 0.00023 0.00039	mg/l mg/l				

Run# 2

Limits

84-124%

83-115%

89-111%

Run#1

94%

99%

94%

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

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7 of 15 SGS



Section 4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



SGS	ACCUTEST	CHAIN OF CUSTODY SGS Accutest IncLafayette 500 Ambasador Caffery Plwy, Scott, LA 70583 TEL.337-237-4775 FAX: 337-237-7838	FED-EX Tracking & Acculati Quota w			
Clippe (Reporting Information		www.acculest.com		Accutest Job # 14 47 36		
Client / Reporting Informa Company Name A Difference Street Difference City Control State Short Difference Protect Contact Protect Cont	Ion Projeg Name: COMSHOC - DrZ. Street A Zip Method DrA E-mail Direct # Cleant Purchase Order #	Project Information C 011 + GAS Billing Information (if different from Report to) Billing Information (if different from Report to	Requester	d Analyses Matrix Codes DW - Drinking Water GW - Ground Water GW - Ground Water SW - Surface Water SS - Sali SL - Surge SED Sediment OI - Other Liquid AIR - Sir SOL - Other Solid WP - Wipe		
Samores)Name(s) UTO MACY	Phone # Project Manager	Attention: Collaction Number of preserved Bott		FB-Field Stank (EB-Equipment Bank RB-Rinse Blank TB-Trip Blank		
Field ID / Point of C	illection pate Time	COMPARAB WERK 200 COMPARAB WERK 200 DISPLACE DEERS 11 101 101 101 101 101 101 101	NahtSon Erecore Omer	LAB USE ONLY		
· · · · · · · · · · · · · · · · · · ·						
· · · · · · · · · · · · · · · · · · ·						
Tupnovno Thing Business of Standard 5 Day RUSH 3 Day RUSH 2 Day RUSH 2 Day RUSH 1 Day EMERGENICY Emergancy & RUSH TIA data available		Commercial "A" = Results On Commercial "A" = Results On Commercial "A" = Results On Commercial "A" = Results On Commercial "A" = Results On	RRP HECAP LABUTAL HELL LIMITS SC NECLOSSAT S Summary S & Summary	nments/Special instructions] p MOTHVD detections t by the LAB is RM		
Relinquished by Stanfart.	Sample Custod Day Tipe:////////////////////////////////////	y must be documented balow each time samples change posse FFD FX Relinquished By: 2 4 4 Cugcody Seal 8	ssion, including courier delivery. Data Time: Data Time: Data Time: Data Time: Preserved where applicable	Received By: 4 On Ice Cogler Temp.		
	i jõ	(Sund led	Not intact	O / 6 Dy sy		

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LA48926: Chain of Custody Page 1 of 3



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44

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LA48926: Chain of Custody Page 2 of 3



LA48926

SGS Sample Receipt Summary

Job Number: LA48	926		Client: A	PPROAC	Η		Project: COMSTOCK	COIL & GAS		
Date / Time Received: 10/19	/2018	9:10:00 A	M I	Delivery N	lethod:	FedEx	Airbill #'s: 78332642	20485		
Cooler Temps (Initial/Adjusted	l): <u>#1</u>	l: (1.6/1.6	<u>);</u>							
Cooler Security Y	or N	_			Y or N	Sample Integrit	<u>y - Documentation</u>	<u>Y</u> or	N	
1. Custody Seals Present:		-	COC Pres			1. Sample labels	present on bottles:			
2. Custody Seals Intact:] 4. Sm	pl Dates/	Time OK		2. Container label	ling complete:	\checkmark		
Cooler Temperature	<u>Y</u>	or N				3. Sample contain	ner label / COC agree:	\checkmark		
1. Temp criteria achieved:	\checkmark					Sample Integrit	ty - Condition	<u>Y or</u>	N	
2. Thermometer ID:		V441;				1. Sample recvd v	within HT:	\checkmark		
3. Cooler media: 4. No. Coolers:	Ice (di	rect conta	ct)			2. All containers a	accounted for:	\checkmark		
		1				3. Condition of sa	imple:	Inta	ct	
Quality Control_Preservation		or N	N/A			Sample Integrit	ty - Instructions	<u>Y</u> or	N	N/A
1. Trip Blank present / cooler:		✓				1. Analysis reque	ested is clear:	\checkmark		
2. Trip Blank listed on COC:		\checkmark				2. Bottles receive	ed for unspecified tests		✓	
3. Samples preserved properly:	\checkmark						me recvd for analysis:	\checkmark		_
4. VOCs headspace free:	✓					Compositing in	nstructions clear:			
-						5. Filtering instru	ctions clear:			
Comments										

LA48926: Chain of Custody Page 3 of 3



11 of 15 LA48926

4.1 4





MS Volatiles

QC Data Summaries

Includes the following where applicable:

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



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Method Blank Summary

Comstock Oil & C	ach Environm Gas, Desoto Pa					
File ID 2X0055979.D				-	Prep Batch n/a	Analytical Batch V2X1276
ed here applies to	the following	samples:			Method: SW84	6 8260B
npound	Res	alt RL	MDL	Units	Q	
zene	Res	ult RL	MDL 0.23	Units ug/l	Q	
-					Q	
6	2X0055979.D	2X0055979.D 1 1		2X0055979.D 1 10/22/18 AR n/a	2X0055979.D 1 10/22/18 AR n/a	2X0055979.D 1 10/22/18 AR n/a n/a

	_		
17060-07-0	1,2-Dichloroethane-D4	92%	84-124%
2037-26-5	Toluene-D8	99%	83-115%
460-00-4	4-Bromofluorobenzene	96%	89-111%







Blank Spike/Blank Spike Duplicate Summary Page 1 Job Number: LA48926 Account: APPRLAS Approach Environmental, LLC Project: Comstock Oil & Gas, Desoto Parish, LA											
Sample V2X1276-BS1 V2X1276-BSD	File ID DF 2X0055973.D 1 1 2X0055975.D 1	10/2	lyzed 22/18 22/18	By AR AR	Prep Data n/a n/a	r	Prep Batc 1/a 1/a	h Analytical Batch V2X1276 V2X1276 V2X1276			
The QC repor LA48926-1	The QC reported here applies to the following samples: Method: SW846 8260B LA48926-1										
CAS No. Co	ompound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD			
71-43-2Benzene2020.110121.1106100-41-4Ethylbenzene2019.69820.3102108-88-3Toluene2021.110622.11111330-20-7Xylene (total)6059.910062.3104								82-119/30 84-117/30 80-121/30 81-122/30			
CAS No. Su	rrogate Recoveries	BSP	В	SD	Limits						
2037-26-5 To	2-Dichloroethane-D4 Juene-D8 Bromofluorobenzene	97% 104% 96%	9	6% 9% 4%	84-124% 83-115% 89-111%						

14 of 15

LA48926

5.2.1 **5**

	Matrix SpikeJob Number:LaAccount:AProject:C		Page 1 of 1									
	Sample LA48916-9MS LA48916-9MSD LA48916-9 ^a	DF Analyzed By 3.D 100 10/22/18 AR 5.D 100 10/22/18 AR 1.D 50 10/22/18 AR				AR AR	Prep Date n/a n/a n/a	Pre n/a n/a n/a	n/a V2X127 n/a V2X127		1276	
	The QC reported here applies to the following samples: LA48926-1							Metho	d: SW8	46 8260	B	
CAS No.	Compound		LA4891 ug/l	6-9 Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene925Ethylbenzene2030Toluene2810Xylene (total)7340				2000 2000 2000 6000	3050 4040 5130 1370	101 116	2000 2000 2000 6000	2860 3940 4920 13200	97 96 106 98	6 3 4 4	31-161/15 47-146/30 36-155/17 41-154/29
CAS No.	Surrogate Recover	ries	MS		MSD	Ι	LA48916-9	9 Limits				
17060-07-0 2037-26-5 460-00-4	1,2-Dichloroethane Toluene-D8 4-Bromofluorobenz		97%100%103%100%94%97%			9	95% 84-124% 99% 83-115% 93% 89-111%		, D			

(a) Sample used for QC purposes only.



5.3.1 5