

July 30, 2012

Report to:

Steve Shute

Lone Pine Gas, Inc.

PO Box 1054

Glenwood Springs, CO 81602

Bill to:

C/O Warren Associates, Inc.

Lone Pine Gas, Inc.

Roy Warren 4505 S. Broadway

Englewood, CO 80113

cc: Randy Miller

Project ID: LONE PINE GAS

ACZ Project ID: L95686

Steve Shute:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 17, 2012. This project has been assigned to ACZ's project number, L95686. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L95686. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 30, 2012. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Tony Antalek has reviewed and approved this report.



Lone Pine Gas, Inc.

July 30, 2012

Project ID: LONE PINE GAS

ACZ Project ID: L95686

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 ground water sample from Lone Pine Gas, Inc. on July 17, 2012. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L95686. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

This sample was analyzed for organic parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. The BTEX analysis was qualified with the ACZ 'N1' flag due to matrix interferences which made integrations difficult to determine. Data should be considered as estimated.

Lone Pine Gas, Inc.

Project ID: LONE PINE GAS
Sample ID: SLUDGE PIT GW 35

ACZ Sample ID: **L95686-01**
Date Sampled: 07/12/12 14:50
Date Received: 07/17/12
Sample Matrix: Ground Water

BTEX/Gasoline Range Organics (C6-C10)

Analysis Method: **M8021B/8015D GC/PID/FID**
Extract Method: **5030C**

Workgroup: WG327064

Analyst: pml
Extract Date: 07/26/12 14:26
Analysis Date: 07/26/12 14:26

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2	1.7		1	*	ug/L	0.2	1
Ethylbenzene	100-41-4	.5	J	1	*	ug/L	0.2	1
m p Xylene	1330-20-7	.8	J	1	*	ug/L	0.4	2
o Xylene	95-47-6	.6	J	1	*	ug/L	0.2	1
Toluene	108-88-3	.3	J	1	*	ug/L	0.2	1
TVH C6 to C10	TVH	.18		1	*	mg/L	0.05	0.05
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	99.9		1	*	%	70	130
Bromofluorobenzene (TVH)	460-00 4	97.7		1	*	%	70	130

Lone Pine Gas, Inc.Project ID: LONE PINE GAS
Sample ID: SLUDGE PIT GW 35ACZ Sample ID: **L95686-01**
Date Sampled: 07/12/12 14:50
Date Received: 07/17/12
Sample Matrix: Ground Water**Diesel Range Organics (C10-C28)**Analysis Method: **M8015D GC/FID**
Extract Method: **M3520****Workgroup: WG326589**Analyst: gk
Extract Date: 07/18/12 12:18
Analysis Date: 07/19/12 17:45

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28		7.4		5	*	mg/L	0.5	3
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
OTP	84-15-1	79		5	*	%	70	130

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>LCL</i>	Lower Control Limit
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit, typically 5 times the MDL.
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>UCL</i>	Upper Control Limit
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>SURR</i>	Surrogate	<i>LFM</i>	Laboratory Fortified Matrix
<i>INTS</i>	Internal Standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBS</i>	Prep Blank - Soil
<i>LFB</i>	Laboratory Fortified Blank	<i>PBW</i>	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
E	Analyte concentration is estimated due to result exceeding calibration range.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
J	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
L	Target analyte response was below the laboratory defined negative threshold.
M	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.
P	Analyte concentration differs from second detector by more than 40%.
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
V	High blank data accepted because sample concentration is 10 times higher than blank concentration.
X	Quality control sample is out of control.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
(3)	EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(5)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Lone Pine Gas, Inc.

ACZ Project ID: **L95686**

Project ID: LONE PINE GAS

BTEX/Gasoline Range Organics (C6-C10)

M8021B/8015D GC/PID/FID

WG327064

AS		Sample ID: L95816-01AS		PCN/SCN: B120726-1-SPIK				Analyzed: 07/26/12 11:42			
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
BENZENE	25	U	27.69	ug/L	110.8	70	130				
ETHYLBENZENE	25	U	27.99	ug/L	112.0	70	130				
M P XYLENE	50	U	57.09	ug/L	114.2	70	130				
O XYLENE	50	U	54.1	ug/L	108.2	70	130				
TOLUENE	75	U	84.11	ug/L	112.1	70	130				
TVH C6 TO C10	.5	U	.589	mg/L	117.8	70	130				
BROMOFLUOROBENZENE (surr)				%	99.1	70	130				
BROMOFLUOROBENZENE (TVH) (surr)				%	100.7	70	130				

ASD		Sample ID: L95816-01ASD		PCN/SCN: B120726-1-SPIK				Analyzed: 07/26/12 12:19			
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
BENZENE	25	U	27.18	ug/L	108.7	70	130	1.86	20		
ETHYLBENZENE	25	U	28.25	ug/L	113.0	70	130	0.92	20		
M P XYLENE	50	U	57.39	ug/L	114.8	70	130	0.52	20		
O XYLENE	50	U	54.43	ug/L	108.9	70	130	0.61	20		
TOLUENE	75	U	84.27	ug/L	112.4	70	130	0.19	20		
TVH C6 TO C10	.5	U	.59	mg/L	118.0	70	130	0.17	20		
BROMOFLUOROBENZENE (surr)				%	105.1	70	130				
BROMOFLUOROBENZENE (TVH) (surr)				%	104.6	70	130				

LCSW		Sample ID: WG327064LCSW		PCN/SCN: B120726-1-SPIK				Analyzed: 07/26/12 9:03			
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
BENZENE	25		26.23	ug/L	104.9	70	130				
ETHYLBENZENE	25		26.53	ug/L	106.1	70	130				
M P XYLENE	50		54.17	ug/L	108.3	70	130				
O XYLENE	50		51.79	ug/L	103.6	70	130				
TOLUENE	75		78.15	ug/L	104.2	70	130				
TVH C6 TO C10	.5		.558	mg/L	111.6	70	130				
BROMOFLUOROBENZENE (surr)				%	100.6	70	130				
BROMOFLUOROBENZENE (TVH) (surr)				%	100.8	70	130				

LCSWD		Sample ID: WG327064LCSWD		PCN/SCN: B120726-1-SPIK				Analyzed: 07/26/12 9:40			
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
BENZENE	25		26.44	ug/L	105.8	70	130	0.8	20		
ETHYLBENZENE	25		26.53	ug/L	106.1	70	130	0	20		
M P XYLENE	50		54.35	ug/L	108.7	70	130	0.3	20		
O XYLENE	50		52.58	ug/L	105.2	70	130	1.5	20		
TOLUENE	75		79.5	ug/L	106.0	70	130	1.7	20		
TVH C6 TO C10	.5		.567	mg/L	113.4	70	130	1.6	20		
BROMOFLUOROBENZENE (surr)				%	102.0	70	130				
BROMOFLUOROBENZENE (TVH) (surr)				%	101.2	70	130				

Lone Pine Gas, Inc.

ACZ Project ID: **L95686**

Project ID: LONE PINE GAS

PBW		Sample ID: WG327064PBW						Analyzed: 07/26/12 10:18			
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
BENZENE			U	ug/L		-1	1				
ETHYLBENZENE			U	ug/L		-1	1				
M P XYLENE			U	ug/L		-2	2				
O XYLENE			U	ug/L		-1	1				
TOLUENE			U	ug/L		-1	1				
TVH C6 TO C10			U	mg/L		-.05	.05				
BROMOFLUOROBENZENE (surr)				%	101.6	70	130				
BROMOFLUOROBENZENE (TVH) (surr)				%	100.6	70	130				

Lone Pine Gas, Inc.

ACZ Project ID: **L95686**

Project ID: LONE PINE GAS

Diesel Range Organics (C10-C28)

M8015D GC/FID

WG326589

MS		Sample ID: L95713-01MS		PCN/SCN: TPH120529-2-10				Analyzed: 07/19/12 22:06			
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
TPH C10 TO C28	2.5	U	2.19	mg/L	87.6	70	130				
OTP (surr)				%	84.6	70	130				

DUP		Sample ID: L95713-02DUP		PCN/SCN: TPH120529-2-10				Analyzed: 07/19/12 22:58			
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
TPH C10 TO C28		U	U	mg/L		70	130	0	20	RA	
OTP (surr)				%	77.1	70	130				

LCSW		Sample ID: WG326429LCSW		PCN/SCN: TPH120529-2-10				Analyzed: 07/19/12 16:52			
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
TPH C10 TO C28	2.5		2.04	mg/L	81.6	70	130				
OTP (surr)				%	84.5	70	130				

LCSWD		Sample ID: WG326429LCSWD		PCN/SCN: TPH120529-2-10				Analyzed: 07/19/12 17:18			
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
TPH C10 TO C28	2.5		1.97	mg/L	78.8	70	130	3.5	20		
OTP (surr)				%	75.9	70	130				

PBW		Sample ID: WG326429PBW		PCN/SCN: TPH120529-2-10				Analyzed: 07/20/12 9:54			
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
TPH C10 TO C28			U	mg/L		-.5	.5				
OTP (surr)				%	85.0	70	130				

Lone Pine Gas, Inc.

ACZ Project ID: **L95686**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L95686-01	WG327064	*All Compounds*	M8021B/8015D GC/PID/FID	N1	See Case Narrative.
			M8021B/8015D GC/PID/FID	QB	Method-specified preservation criteria cannot be met due to sample matrix.
	WG326589	M8015D GC/FID	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (? 10x MDL).	
	WG326429	M3520	D1	Sample required dilution due to matrix.	

Lone Pine Gas, Inc.

ACZ Project ID: **L95686**

No certification qualifiers associated with this analysis

Lone Pine Gas, Inc.
 LONE PINE GAS

ACZ Project ID: L95686
 Date Received: 07/17/2012 09:56
 Received By: ksj
 Date Printed: 7/17/2012

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples? A change was made in the ID Line 7 section prior to ACZ custody.	X		

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time? L95686-01 Container B1230219: The sample ID on the containers was 'Sludge Pit Bottom 35'', and on the chain of custody it was 'Sludge Pit GW 35''. The sample ID was entered per the chain of custody. L95686-01 Container B1230220: The sample ID on the containers was 'Sludge Pit Bottom 35'', and on the chain of custody it was 'Sludge Pit GW 35''. The sample ID was entered per the chain of custody. L95686-01 Container B1230221: The sample ID on the containers was 'Sludge Pit Bottom 35'', and on the chain of custody it was 'Sludge Pit GW 35''. The sample ID was entered per the chain of custody. L95686-01 Container B1230222: The sample ID on the containers was 'Sludge Pit Bottom 35'', and on the chain of custody it was 'Sludge Pit GW 35''. The sample ID was entered per the chain of custody.		X	
11) For preserved bottle types, was the pH checked and within limits?			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?	X		
15) Are all sample containers appropriate for analytical requirements? L95686-01 : The containers for the bulk of the 910-1 quotation were not received. The only parameters that can be run are BTEX, GRO and DRO.		X	
16) Is there an Hg-1631 trip blank present?			X

Lone Pine Gas, Inc.
 LONE PINE GAS

ACZ Project ID: L95686
 Date Received: 07/17/2012 09:56
 Received By: ksj
 Date Printed: 7/17/2012

- 17) Is there a VOA trip blank present?
- 18) Were all samples received within hold time?

	X	
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----
3715	5.8	15	Yes

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.



Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5193

195686

CHAIN of CUSTODY

Report to

Name: Steven Skute
 Company: Lone Pine Gas, Inc
 E-mail: pipeline@rof.net

Address: 4505 S. Broadway
 Englewood, CO 80113
 Telephone: 970-928-9208

Copy of Report to

Name: Randy Miller
 Company: North Park Engineering

E-mail: randy@npeng.com
 Telephone: 970-218-4974

Invoice to

Name: Steven Skute
 Company: Lone Pine Gas, Inc.
 E-mail: pipeline@rof.net

Address: 4505 S. Broadway
 Englewood CO 80113
 Telephone: 970-928-9208

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES NO

* See manual for contact information for further instructions. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring? Yes No

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: R-Miller Sampler's site Information: State: CO Zip code: 80480 Time Zone: Mtn

PROJECT INFORMATION

Quote #:	Project/PO #:	Reporting state for compliance testing:	Check box if samples include NRC licensed material?	SAMPLE IDENTIFICATION	DATE-TIME	Matrix	# of Containers	910-1	910-1 w/PAH	BTX, TPH-GC, PCBs						
910-1	Lone Pine			1 Sludge pit Bottom 35	7-12-12 11:00	SO	2		X							
				2 Sludge pit North 24	13:30	SO	2	X								
				3 Sludge pit West 24	13:40	SO	2	X								
				4 Sludge pit South 24	13:50	SO	2	X								
				5 Sludge pit East 24	14:00	SO	2	X								
				4 Sludge pit East 24												
				6 Sludge pit GW 35	14:50	GW	4	X		X						

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

PAH on sample #1 only

COPY

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELEASING BY	DATE-TIME	RECEIVED BY	DATE-TIME
Randy Miller	7/16/12		
		RPU	7-17-12 9:36

195686 Chain of Custody

LABID	CLIENTID	PROJECTID	DEPTNAME	COLLECTDATE	RECEIVEDATE	ANALYTE	MATRIX	METHOD	RESULT	TEXTRES	QUAL	UNITS	MDL	PQL	ANALYZEDATE	ANALYST	CAS
L95686-01	SLUDGE PIT GW 35	LONE PINE GAS	Gas Chromatography	07/12/2012	07/17/2012	Benzene	GW	M8021B/8015D GC/PID/	1.7	1.7		ug/L	0.2	1	07/26/2012	pml	71-43-2
L95686-01	SLUDGE PIT GW 35	LONE PINE GAS	Gas Chromatography	07/12/2012	07/17/2012	Bromofluorobenzene	GW	M8021B/8015D GC/PID/	99.9	99.9		%	70	130	07/26/2012	pml	460-00-4
L95686-01	SLUDGE PIT GW 35	LONE PINE GAS	Gas Chromatography	07/12/2012	07/17/2012	Bromofluorobenzene (TVH)	GW	M8021B/8015D GC/PID/	97.7	97.7		%	70	130	07/26/2012	pml	460-00 4
L95686-01	SLUDGE PIT GW 35	LONE PINE GAS	Gas Chromatography	07/12/2012	07/17/2012	Ethylbenzene	GW	M8021B/8015D GC/PID/	0.5	.5	J	ug/L	0.2	1	07/26/2012	pml	100-41-4
L95686-01	SLUDGE PIT GW 35	LONE PINE GAS	Gas Chromatography	07/12/2012	07/17/2012	m p Xylene	GW	M8021B/8015D GC/PID/	0.8	.8	J	ug/L	0.4	2	07/26/2012	pml	1330-20-7
L95686-01	SLUDGE PIT GW 35	LONE PINE GAS	Gas Chromatography	07/12/2012	07/17/2012	o Xylene	GW	M8021B/8015D GC/PID/	0.6	.6	J	ug/L	0.2	1	07/26/2012	pml	95-47- 6
L95686-01	SLUDGE PIT GW 35	LONE PINE GAS	Gas Chromatography	07/12/2012	07/17/2012	OTP	GW	M8015D GC/FID	79	79		%	70	130	07/19/2012	gk	84-15-1
L95686-01	SLUDGE PIT GW 35	LONE PINE GAS	Gas Chromatography	07/12/2012	07/17/2012	Toluene	GW	M8021B/8015D GC/PID/	0.3	.3	J	ug/L	0.2	1	07/26/2012	pml	108-88-3
L95686-01	SLUDGE PIT GW 35	LONE PINE GAS	Gas Chromatography	07/12/2012	07/17/2012	TPH C10 to C28	GW	M8015D GC/FID	7.4	7.4		mg/L	0.5	3	07/19/2012	gk	
L95686-01	SLUDGE PIT GW 35	LONE PINE GAS	Gas Chromatography	07/12/2012	07/17/2012	TVH C6 to C10	GW	M8021B/8015D GC/PID/	0.18	.18		mg/L	0.05	0.05	07/26/2012	pml	TVH