

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pGRL0905637054

1RP - 2086

SOUTHERN UNION GAS COMPANY

7/26/2016

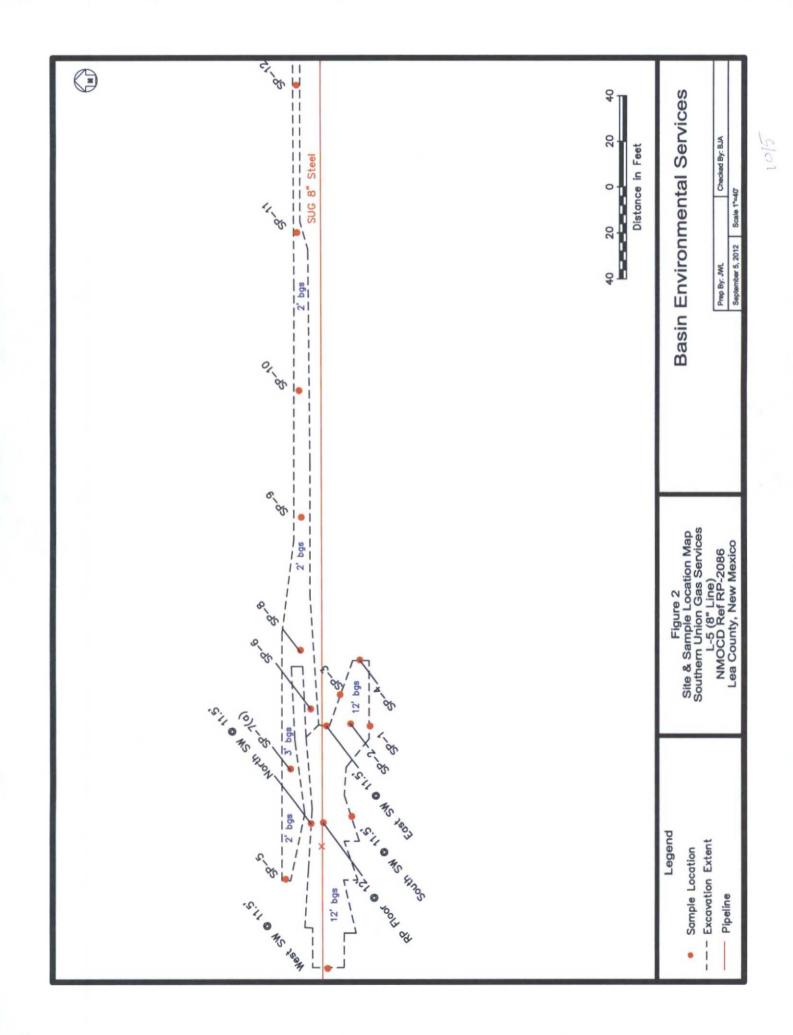


TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES L-5 (8" LINE) LEA COUNTY, NEW MEXICO NMOCD REF# 1RP-2334

					METHOD: EF	METHOD: EPA SW 846-8021B, 5030	21B, 5030		MET	METHOD: 8015M	SM	TOTAL	SM 4500-CL B
CAMPLE LOCATION	SAMPLE	SAMPLE	SOIL	DENTENE	- COLUMN	ETHYL-	TOTAL	TOTAL	GRO	DRO	ORO	TPH	
SAMPLE LOCATION	(BGS)	DATE	STATUS	(ma/ka)	(ma/ka)	BENZENE	XYLENES	BTEX	C ₆ -C ₁₂	C12-C28	C28-C35	C ₆ -C ₃₅	(ma/Ka)
	10001			Runnin	RuRuit	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(Ru/Rui)
West SW @ 11.5'	11.5'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	64
South SW @ 11.5'	11.5'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	96
North SW @ 11.5'	11.5'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	28.4	<10.0	28.4	<16
East SW @ 11.5'	11.5'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	93.2	<10.0	93.2	<16
RP Floor @ 12'	12'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	25.2	<10.0	25.2	112
SP-1	11.5'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	24.2	<10.0	24.2	<16
SP-2	12'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	36.5	<10.0	36.5	<16
SP-3	2'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	37.4	<10.0	37.4	<16
SP-4	11.5'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	32.2	<10.0	32.2	<16
SP-5	2'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	15.8	<10.0	15.8	<16
SP-6	2'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	16.2	<10.0	16.2	<16
SP-7	2'	11/19/2009	Excavated	<0.050	<0.050	0.090	0.378	0.468	<10.0	267.0	<10.0	267.0	64
SP-8	2'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	17.2	<10.0	17.2	<16
SP-9	2'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	33.7	<10.0	33.7	<16
SP-10	2'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	30.7	<10.0	30.7	<16
SP-11	2'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	15.2	<10.0	15.2	<16
SP-12	2'	11/19/2009	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	<16
STOCKPILE BASE LINE	N/A	11/19/2009	Stockpiled	<0.050	<0.050	0.257	1.19	1.447	25.5	1,070	61.5	1,157	<16
	Sold Barries	Note that the	and the state	Statute Line	A DISCONTINUES OF	A Street and the second second	A STREET STREET STREET			AND STATISTICS	Contraction of	A STATE OF	A PARTICULAR DATA
SP-7A	3'	1/12/2010	In-Situ	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	<10.0	<10.0	<10.0	<16
STOCKPILE EAST	N/A	1/12/2010	Stockpiled	<0.050	<0.050	<0.050	<0.300	<0.300	23.9	847	67.0	937.9	<16
STOCKPILE WEST	N/A	1/12/2010	Stockpiled	<0.050	<0.050	<0.050	<0.300	<0.300	<10.0	648	51.6	699.6	32
		Subtraction and	「「「「「」」」		Station of the second	A PARTY AND A PARTY AND A	の語言の言語	The second second				Construction of the	三十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二
STOCKPILE	N/A	9/14/2012	Stockpiled	<0.00104	<0.00208	<0.00104	<0.00208	<0.00208	<15.6	217	16.4	233	22.4*
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STOCKPILE #2	N/A	9/25/2012	Stockpiled	<0.00105	<0.00210	<0.00105	<0.00210	<0.00210	<15.8	72.0	<15.8	72.0	
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NMOCD Standard				10				50				100	250

- = Not analyzed.
 * Denotes Laboratory Analytical Results in accordance with EPA 300/300.1

Page 1 of 1

9/01



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

January 19, 2010

Camille Bryant Basin Environmental Consulting, LLC. P.O. Box 381 Lovington, NM 88260

Re: SUG 2009-055 (8 inch lateral L-5)

Enclosed are the results of analyses for sample number H19041, received by the laboratory on 01/12/10 at 4:50 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely, Celev D/Keene

Laboratory Director

This report conforms with NELAP requirements.



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT 2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/12/10 Reporting Date: 01/18/10 Project Number: 2009-055 (SUG) Project Name: 8-INCH LATERAL L-5 Project Location: LEA CO., NM Sampling Date: 01/12/10 Sample Type: SOIL Sample Condition: INTACT @ 9⁰C Sample Received By: JH Analyzed By: AB/ZL

		GRO	DRO	DRO ext.			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C ₆ -C ₁₀)	(>C10-C28)	(>C28-C35)	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE:	01/15/10	01/15/10	01/15/10	01/13/10	01/13/10	01/13/10	01/13/10
H19041-1 SP-7A	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.300
H19041-2 STOCKPILE EAST	23.9	847	67.0	< 0.050	< 0.050	<0.050	0.501
H19041-3 STOCKPILE WEST	<10.0	648	51.6	<0.050	<0.050	<0.050	0.339
Quality Control	456	458		0.051	0.049	0.051	0.136
True Value QC	500	500	-	0.050	0.050	0.050	0.150
% Recovery	91.2	91.6	-	102	98.0	102	90.7
Relative Percent Difference	3.8	0.4		2.0	<1.0	2.0	1.9

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight. Not accredited for GRO/DRO/DRO ext.

Lab Directo

H19041 TPHextBTEX BASIN

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/12/10 Reporting Date: 01/14/10 Project Number: 2009-055 (SUG) Project Name: 8 INCH LATERAL L-5 Project Location: LEA CO., NM

Analysis Date: 01/13/10 Sampling Date: 01/12/10 Sample Type: SOIL Sample Condition: INTACT @ 9°C Sample Received By: JH Analyzed By: HM

CI

LAB NO.	SAMPLE ID	(mg/kg)
H19041-1	SP-7A	< 16
H19041-2	STOCKPILE EAST	< 16
H19041-3	STOCKPILE WEST	32
Quality Con	strol	500
True Value	second and the second	500
% Recover	y	100
Relative Pe	ercent Difference	< 0.1

4500-CI'B **METHOD: Standard Methods** Note: Analyses performed on 1:4 w:v aqueous extracts. Not accredited for Chloride.

eme Chemist

Date

H19041 Basin Environmental

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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#26

Analytical Report 449054

for

Southern Union Gas Services- Monahans

Project Manager: Ben Arguijo

L-5 (8" line)

(RP-2334)

18-SEP-12

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)





18-SEP-12

Project Manager: **Ben Arguijo Southern Union Gas Services- Monahans** 801 South Loop 464 Monahans, TX 79756

Reference: XENCO Report No: 449054 L-5 (8" line) Project Address: Lea County, NM

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 449054. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 449054 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Nicholas Straccione Project Manager

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America







Southern Union Gas Services- Monahans, Monahans, TX

		L-5 (8" line)		
Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile	S	09-14-12 13:00		449054-001





Client Name: Southern Union Gas Services- Monahans Project Name: L-5 (8" line)



Project ID: (RP-2334) Work Order Number: 449054 Report Date: 18-SEP-12 Date Received: 09/14/2012

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-896685 TPH By SW8015 Mod SW8015MOD_NM

Batch 896685, C12-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike Duplicate. Samples affected are: 449054-001. The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

Batch: LBA-896763 BTEX by EPA 8021B SW8021BM

Batch 896763, Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 449054-001.

The Laboratory Control Sample for m,p-Xylenes , Ethylbenzene, o-Xylene is within laboratory Control Limits



Contact: Ben Arguijo Project Id: (RP-2334)

Southern Union Gas Services- Monahans, Monahans, TX Certificate of Analysis Summary 449054 Project Name: L-5 (8" line)



Date Received in Lab:	Fri Sep-14-12 03:30 pm
Report Date:	18-SEP-12

				Project Manager:	r: Nicholas Straccione	
	Lab Id:	449054-001				
Analysis Romostad	Field Id:	Stockpile				
noiconhour ciclimut	Depth:					
	Matrix:	SOIL				
	Sampled:	Sep-14-12 13:00	00			
BTEX by EPA 8021B	Extracted:	Sep-18-12 12:20	.20			
	Analyzed: Unite/R1 -	Sep-18-12 15:41 mo/ko R	:41 RI			
Benzene		-	0.00104			
Toluene			0.00208			
Ethylbenzene		QN	0.00104			
m,p-Xylenes		QN	0.00208			
o-Xylene		QN	0.00104			
Total Xylenes		QN	0.00104			
Total BTEX		QN	0.00104			
Inorganic Anions by EPA 300/300.1	Extracted:	Sep-15-12 13:30	:30			
SUB: E871002	Analyzed:	Sep-15-12 19:18	:18			
	Units/RL:	mg/kg	RL			
Chloride		22.4	1.09			
Percent Moisture	Extracted:					
	Analyzed:	Sep-17-12 12:45	:45			
	Units/RL:	%	RL			
Percent Moisture		3.93	1.00			
TPH By SW8015 Mod	Extracted:	Sep-17-12 09:30	:30			
	Analyzed:	Sep-17-12 19:23	:23			
	Units/RL:	mg/kg	RL			
C6-C12 Gasoline Range Hydrocarbons		QN	15.6			
C12-C28 Diesel Range Hydrocarbons		217	15.6			
C28-C35 Oil Range Hydrocarbons		16.4	15.6			
Total TPH		233	15.6			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and remains expressed throughout this analytical report represent the best jugment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warmany to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Nicholas Straccione Project Manager

Nul Ch

٦

Final 1.000



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantiation limit and above the detection limit.

U Analyte was not detected.

- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 (770) 449-8800
 (770) 449-5477

 (602) 437-0330
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Final 1.000



Project Name: L-5 (8" line)

ork Orders : 449054	sample: 449054-001 / SMP	Bate	and the second second	D: (RP-2334)		
Units: mg/kg	Date Analyzed: 09/17/12 19:23		RROGATE R		STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane	Analytes	95.8	99.6	96	70-135	
o-Terphenyl		48.5	49.8	90	70-135	
Lab Batch #: 896763	Sample: 449054-001 / SMP	Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 09/18/12 15:41		RROGATE R		STUDY	
	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorobenzene	Analytes	0.0259	0.0300	86	80-120	
4-Bromofluorobenzene		0.0239	0.0300	83	80-120	
Lab Batch #: 896685	Sample: 627274-1-BLK / BL	K Bate	h: 1 Matrix	·· Solid		
Units: mg/kg	Date Analyzed: 09/17/12 11:58		RROGATE R		STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		94.2	99.6	95	70-135	
o-Terphenyl		47.0	49.8	94	70-135	
Lab Batch #: 896763	Sample: 627327-1-BLK / BL	K Batc	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 09/18/12 14:12	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorobenzene		0.0257	0.0300	86	80-120	
4-Bromofluorobenzene		0.0261	0.0300	87	80-120	
Lab Batch #: 896685	Sample: 627274-1-BKS / BK					
Units: mg/kg	Date Analyzed: 09/17/12 11:00	SU	RROGATE R	ECOVERY S	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		101	100	101	70-135	
o-Terphenyl		53.9	50.1	108	70-135	-

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



Project Name: L-5 (8" line)

Lab Batch #: 896763	Sample: 627327-1-BKS / BI	CS Bate	h: 1 Matrix	c: Solid		
Units: mg/kg	Date Analyzed: 09/18/12 13:36	SU	RROGATE R	ECOVERYS	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0312	0.0300	104	80-120	
4-Bromofluorobenzene		0.0322	0.0300	107	80-120	_
Lab Batch #: 896685	Sample: 627274-1-BSD / BS			:Solid		
Units: mg/kg	Date Analyzed: 09/17/12 11:29	SU	RROGATE R	ECOVERY S	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		102	100	102	70-135	
o-Terphenyl		52.6	50.1	105	70-135	
Lab Batch #: 896763	Sample: 627327-1-BSD / BS	D Bate	h: 1 Matrix	: Solid		
Units: mg/kg	Date Analyzed: 09/18/12 13:51	10.5.010	RROGATE R		STUDY	
	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1.4-Difluorobenzene		0.0276	0.0300	92	80-120	
4-Bromofluorobenzene		0.0307	0.0300	102	80-120	
Lab Batch #: 896685	Sample: 448788-015 S / MS	Bate	h: 1 Matrix	e: Soil		
Units: mg/kg	Date Analyzed: 09/17/12 12:28		RROGATE R		STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		90.7	100	91	70-135	
o-Terphenyl		49.9	50.2	99	70-135	
Lab Batch #: 896763	Sample: 449054-001 S / MS	Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 09/18/12 15:26	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorobenzene		0.0302	0.0300	101	80-120	
					80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



Project Name: L-5 (8" line)

ork Orders : 449054,		Project I	D: (RP-2334)		
Lab Batch #: 896685 Sample: 448788-015 SD / N	ASD Bate	h: 1 Matrix	: Soil		
Units: mg/kg Date Analyzed: 09/17/12 12:57	SU	RROGATE R	ECOVERY S	STUDY	
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane	89.2	99.9	89	70-135	
o-Terphenyl	49.3	50.0	99	70-135	
Lab Batch #: 896763 Sample: 449054-001 SD / N	ASD Bate	h: 1 Matrix	r: Soil		
Units: mg/kg Date Analyzed: 09/18/12 15:55	SU	RROGATE R	ECOVERY S	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0344	0.0300	115	80-120	
4-Bromofluorobenzene	0.0342	0.0300	114	80-120	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: L-5 (8" line)

Work Order #: 449054 Analyst: KEB Lab Batch ID: 896763 Sample: 627327-1-BKS

Date Prepared: 09/18/2012

Batch #: 1

Project ID: (RP-2334) Date Analyzed: 09/18/2012 Matrix: Solid

Units: mg/kg		BLANH	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANK S	PIKE DUPI	ICATE]	RECOVE	ERY STUD	X	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0.100	0.0940	94	0.100	0.0940	94	0	70-130	35	
Toluene	<0.00200	0.100	0.0935	94	0.100	0.0928	93	1	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0907	91	0.100	0.0904	60	0	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.196	98	0.200	0.199	100	2	70-135	35	
o-Xylene	<0.00100	0.100	0.0940	94	0.100	0.0969	26	3	71-133	35	
Analyst: TTE	Da	te Prepare	Date Prepared: 09/15/2012	2			Date A	nalyzed: (Date Analyzed: 09/15/2012		
Lab Batch ID: 896628 Sample: 627250-1-BKS	1-BKS	Batch #:	#: 1					Matrix: Solid	Solid		

1180 DAUNT 11 020070	CVG-1-007/70 milling		Datum T.	1					ALLON AVELONDAL				
Units: mg/kg			BLAN	K /BLANK S	PIKE / E	LANK S	3LANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	ICATE 1	RECOVERY	RY STUDY	X		
Inorganic Anions by EPA 300/300.1	00/300.1	Blank Sample Result IAI	Spike Added	Blank Spike Result	Blank Spike	Spike Added	Blank Spike Dunlicate	Bik. Spk Dup.	RPD %	Control Limits	Control Limits	Flag	
Analytes		<u>ē</u>	[B]	[C]	[q]	[E]	Result [F]	[6]	ę	VID/	T TVIA/		
Chloride		<779.0>	<i>T.</i> 79	6.79	100	102	105	103	7	80-120	20		

Relative Percent Difference RPD = 200*(C-F)/(C+F) Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes Page 10 of 16

Final 1.000



BS / BSD Recoveries



Project Name: L-5 (8" line)

BLANK /BLANK SPI		Units: mg/kg
Batch #: 1	Sample: 627274-1-BKS	Lab Batch ID: 896685
Date Prepared: 09/17/2012		Analyst: KEB
		Work Order #: 449054

Project ID: (RP-2334) Date Analyzed: 09/17/2012 Matrix: Solid

Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANK S	PIKE DUPL	ICATE 1	RECOVE	RY STUD	Y	
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[ŋ]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	945	95	1000	934	93	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	925	93	1000	914	91	1	70-135	35	

Relative Percent Difference RPD = 200*((C-F)/(C+F) Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Date Prepared: 09/15/2012

Project Name: L-5 (8" line)



Work Order #: 449054 Lab Batch #: 896628 Date Analyzed: 09/15/2012 QC- Sample ID: 449054-001 S Reporting Units: mg/kg

Project ID: (RP-2334)

Analyst: TTE

QC- Sample ID: 449054-001 S	Batch #: 1		M	Matrix: S	oil	
Reporting Units: mg/kg	MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	22.4	109	129	98	80-120	

Matrix Spike Percent Recovery $[D] = 100^{+}(C-A)/B$ Relative Percent Difference $[E] = 200^{+}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

XENCO Laboratories

Form 3 - MS / MSD Recoveries



Work Order #: 449054

Date Analyzed: 09/18/2012 Lab Batch ID: 896 63 Reporting Units: mg/kg

Project ID: (RP-2334)

Batch #: Analyst: QC-Sample ID: 449054-001 S Date Prepared: 09/18/2012

Matrix: Soil I EB MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benlène	D.00104	0.104	0.0918	88	0.104	0.09[2	93	9	0-130	35	
Toluene	0.00208	0.104	0.0826	0	0.104	0.0826	6	0	0-130	35	
Ethylben Ene	0.00104	0.104	0.0614	59	0.104	0.061	59	0	□-129	35	
m [p- ⊡y lenes	0.00208	0.208	0.124	60	0.208	0.124	60	0	0-135	35	
o-⊡ylene	0.00104	0.104	0.0649	62	0.104	0.0645	62	1	□-133	35	a
Lab Batch ID: 896685 Q	QC- Sample ID: 448_88-015 S	448 88-	-015 S	Ba	Batch #:	1 Matrix:	: Soil				

Date Analyzed: 09/1 [72012	Date Prepared: 09/1 [2012	09/1 []/20	12	Ans	Analyst:	DEB					
Reporting Units: mg/kg		M	ATRIX SPIKI	E / MATI	AIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	VERY S	TUDY		
TDU D., CW9016 Mod	Parent		Spiked Sample	Spiked		Duplicate	Spiked		Control	Control	
notal crooks c kg H J I	Sample	Spike	Result	Sample	Spike	Spiked Sample	Dup.	RPD	Limits	Limits	Flag
	Result	Added		%R	Added	Result [F]	%R	%	%R	%RPD	P.
Analytes	[Y]	[B]		[ŋ]	[E]		[6]				
C6-C12	015.2	1010	924	16	1010	842	83	6	0-135	35	
C12-C28 Diesel Range Dydrocarbons	520	1010	12:0	đ	1010	1180	65		0-135	35	

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD = $200^{\circ}(C-D)(C+\Box)$

Matrix Spike Duplicate Percent Recovery []] = 100*(DA)E

□D = □ot Detected □ = Present Below Reporting Limit □ = Present in Blank □ R = □ot Re □ ested □ = □interference □ A = □ot Applicable □ = See □ arrative □EQL = Estimated Quantitation Limit

Page 13 of 16



Sample Duplicate Recovery



Project Name: L-5 (8" line)

Work Order #: 449054

Lab Batch #: 896699			Project I	D: (RP-233	4)
Date Analyzed: 09/1 2012 12 45	Date Prepared: 09/1 2012	Ana	lyst: 🗆 R 🗆		
QC- Sample ID: 449054-001 D	Batch #: 1	Mat	rix: Soil		
Reporting Units:	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	3.93	4.02	2	15	

Spike Relative Difference RPD 200 * [(B-A)/(B+A) All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Xenco Labor Project Manager: Company Name	-aboratories Manager: Joel Lowry IV Name Basin Environmental Service Technologies,	fice Tec	chnolo	gies, LLC			20	CHAIN OF 12600 West I-20 East Odessa, Texas 79765	Wes a, Te	CHA xas	D Eat	SS SS	Sna	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST t1-20 East Phone: 432-563-180 xas 79765 Fax: 432-563-171; project Name: L-5 (8"line) Project #: (RP-2334)	Phone Phone Phone Phone Phone Phone Phone Phone Phone Project Name: <u>L-5 (8"line</u> Project #: <u>(RP-2334)</u>	ct N	CORD AND ANALY Phor Fax set Name: <u>L-5 (8"line</u> Project #: <u>(RP-2334)</u>	R L N	AN/A	AL YS hone Fax: 11ne)	SIS 8:4:	REQ 32-56	ALYSIS REQUEST Phone: 432-563-1713 Fax: 432-563-1713 ("line)				
Company Address: P.O. Box 301	P.O. Box 301														Pro	ject	Project Loc: Lea County, NM	Ē	Col	unty,	NN						
City/State/Zip:	Lovington, NM 88260	3			L'AND	1									-		#Od										
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Stockpile				21/ 4/12	1300		-	×		-		_		5	-	×						X	×	_			X
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Relinquished by:	Date 9/14/12	Time 13.05	26	Received by:	G	$ \rangle$			$ \setminus $	11%		0	Date M	9/14/12	Time 1305	a So	333	Labels of Custody Custody	on con y seals y seals	Is or Is or	container(s) eals on containe eals on cooler(s)	n container(s) seals on container(s seals on cooler(s)	(s)		82 ×	产生花	
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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Southern Union Gas Services- MonahanAcceptable Temperature Range: 0 - 6 degCDate/ Time Received: 09/14/2012 03:30:00 PMAir and Metal samples Acceptable Range: AmbientWork Order #: 449054Temperature Measuring device used :

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	7.5	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles/ container?	Yes	
#6 *Custody Seals Signed and dated for Containers/coolers	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	Yes	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst: PH Device/Lot#:

Checklist completed by:

Checklist reviewed by:

Date:



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

January 19, 2010

Camille Bryant Basin Environmental Consulting, LLC. P.O. Box 381 Lovington, NM 88260

Re: SUG 2009-055 (8 inch lateral L-5)

Enclosed are the results of analyses for sample number H19041, received by the laboratory on 01/12/10 at 4:50 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely. Celey D/Keene

Laboratory Director

This report conforms with NELAP requirements.



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT 2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/12/10 Reporting Date: 01/18/10 Project Number: 2009-055 (SUG) Project Name: 8-INCH LATERAL L-5 Project Location: LEA CO., NM Sampling Date: 01/12/10 Sample Type: SOIL Sample Condition: INTACT @ 9⁰C Sample Received By: JH Analyzed By: AB/ZL

		GRO	DRO	DRO ext.			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C ₆ -C ₁₀)	(>C10-C28)	(>C28-C35)	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE:	01/15/10	01/15/10	01/15/10	01/13/10	01/13/10	01/13/10	01/13/10
H19041-1 SP-7A	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.300
H19041-2 STOCKPILE EAST	23.9	847	67.0	< 0.050	< 0.050	<0.050	0.501
H19041-3 STOCKPILE WEST	<10.0	648	51.6	<0.050	<0.050	<0.050	0.339
Quality Control	456	458		0.051	0.049	0.051	0.136
True Value QC	500	500	-	0.050	0.050	0.050	0.150
and the second		and the second s				the second statement of the se	
% Recovery	91.2	91.6	-	102	98.0	102	90.7

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight. Not accredited for GRO/DRO/DRO ext.

Lab Director

H19041 TPHextBTEX BASIN

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 01/12/10 Reporting Date: 01/14/10 Project Number: 2009-055 (SUG) Project Name: 8 INCH LATERAL L-5 Project Location: LEA CO., NM Analysis Date: 01/13/10 Sampling Date: 01/12/10 Sample Type: SOIL Sample Condition: INTACT @ 9°C Sample Received By: JH Analyzed By: HM

CL

LAB NO.	SAMPLE ID	(mg/kg)
H19041-1	SP-7A	< 16
H19041-2	STOCKPILE EAST	< 16
H19041-3	STOCKPILE WEST	32
Quality Con	ntrol	500
True Value	And an and a second	500
% Recover	the second se	100
	ercent Difference	< 0.1

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts. Not accredited for Chloride.

line Chemist

Date

Date

H19041 Basin Environmental

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	ANALYSIS REQUEST		0.12	0.02	7/210			No Add'I Fax #: No Add'I Fax #:
	8/17.70	P.O. #: company: SUCI Attn: Address:	City: State: Zip: Phone #: Fax #:	ESERV. SAMPLING	DATER: DA	XXX	ntract of tort, shall be limited offen unter a fare completion offen to the proving a sub or of profile incurred by clerk, its and or of the above stated reasons or a	LdS Phone Result: D Fax Result: D REMARKS: D REMARKS: D REMARKS: D REMARKS: D REMARKS: D
s, NM 88240 (575) 393-2476	Surgen x	322160 0-1429	Project Owner: SUCT City: Verte L - S state Phon Fax 6	MATRIX	(G)RAB OR (C)ON CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE SLUDGE	× × ×	da o da o	11100
\$ d	T D	Project Manager: Cumulou H Address: 2800 HCUM4 City: LOVINAM	Project #: A(091-055) P Project Name: 8 - T/NCh LC Project Location: 0 2 C C Y Samuler Name: 0 M 100.		Lab I.D. Sample I.D.	HIGHI-1 SU-7A -3 Shock pule	vages. Cardinars sap! r negligence and any of lable for incidental or co trelated to the performa	In sent

#26

Analytical Report 449822

for

Southern Union Gas Services- Monahans

Project Manager: Joel Lowry

L-5(8"line)

(RP-2334)

03-OCT-12

Collected By: Client





12600 West I-20 East Odessa, Texas 79765

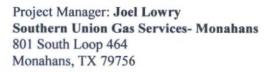
Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



03-OCT-12



Reference: XENCO Report No: 449822 L-5(8"line) Project Address: Lea County, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 449822. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 449822 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Alejandro Montoya Odessa Laboratory Director

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Sample Cross Reference 449822



Southern Union Gas Services- Monahans, Monahans, TX

L-5(8"line)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Stockpile #2	S	09-25-12 13:30		449822-001



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans Project Name: L-5(8"line)



Project ID: (RP-2334) Work Order Number: 449822 Report Date: 03-OCT-12 Date Received: 09/27/2012

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-897637 BTEX by EPA 8021B SW8021BM

Batch 897637, Ethylbenzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 449822-001. The Laboratory Control Sample for Ethylbenzene is within laboratory Control Limits



Certificate of Analysis Summary 449822 Southern Union Gas Services- Monahans, Monahans, TX Project Name: L-5(8"line)



Date Received in Lab: Thu Sep-27-12 02:56 pm

(RP-2334)	Joel Lowry	Lea County, NM
Project Id:	Contact:	Project Location:

Project Location: Lea County, NM				Project Manager:	Project Manager: Nicholas Straccione	
	Lab Id:	449822-001				
Analysis Ronnostod	Field Id:	Stockpile #2	2			
matcanhav acclimits	Depth:					
	Matrix:	SOIL				
	Sampled:	Sep-25-12 13:30	:30			
BTEX by EPA 8021B	Extracted:	Sep-28-12 12:05	:05			
	Analyzed:	Sep-28-12 15:18	:18			
	Units/RL:	mg/kg	RL			
Benzene		ON ON	0.00105			
Toluene		QN	0.00210			
Ethylbenzene		O QN	0.00105			
m_p-Xylenes		ON ON	0.00210			
o-Xylene		QN	0.00105			
Total Xylenes		ND	0.00105			
Total BTEX		ND	0.00105			
Percent Moisture	Extracted:					
	Analyzed:	Oct-01-12 14:30	:30			
	Units/RL:	%	RL			
Percent Moisture		5.11	1.00			
TPH By SW8015 Mod	Extracted:	Oct-01-12 12:00	00:			
	Analyzed:	Oct-01-12 16:31	31			
	Units/RL:	mg/kg	RL			
C6-C12 Gasoline Range Hydrocarbons		QN	15.8			
C12-C28 Diesel Range Hydrocarbons		72.0	15.8			
C28-C35 Oil Range Hydrocarbons		ND	15.8			
Total TPH		72.0	15.8			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best jubment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%

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Odessa Laboratory Director Alejandro Montoya

Alyondus M.



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

LOD Limit of Detection

LOQ Limit of Quantitation

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

PQL Practical Quantitation Limit MQL Method Quantitation Limit

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Final 1.000



Project Name: L-5(8"line)

ork Orders : 449822 Lab Batch #: 897637	Sample: 449822-001 / SMP	Bate		D: (RP-2334) c: Soil		
Units: mg/kg	Date Analyzed: 09/28/12 15:18	SU	RROGATE R	ECOVERY	STUDY	
BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytes			[D]		
1,4-Difluorobenzene		0.0241	0.0300	80	80-120	
4-Bromofluorobenzene		0.0285	0.0300	95	80-120	
Lab Batch #: 897742	Sample: 449822-001 / SMP	Bate				
Units: mg/kg	Date Analyzed: 10/01/12 16:31	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		86.5	100	87	70-135	
o-Terphenyl		41.8	50.0	84	70-135	
Lab Batch #: 897637	Sample: 627872-1-BLK / BL	K Bate	h: 1 Matrix	: Solid		
Units: mg/kg	Date Analyzed: 09/28/12 14:12		RROGATE R		STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorobenzene		0.0267	0.0300	89	80-120	
4-Bromofluorobenzene		0.0294	0.0300	98	80-120	
Lab Batch #: 897742	Sample: 627936-1-BLK / BL	K Bate	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 10/01/12 14:32	SU	RROGATE R	ECOVERY S	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		93.7	99.9	94	70-135	
o-Terphenyl		46.2	50.0	92	70-135	
Lab Batch #: 897637	Sample: 627872-1-BKS / BK	S Bate	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 09/28/12 13:14	SU	RROGATE R	ECOVERY S	STUDY	
BTE	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorobenzene		0.0310	0.0300	103	80-120	
4-Bromofluorobenzene		0.0348	0.0300	116	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.



Project Name: L-5(8"line)

ork Orders : 449822		VC D	-	D: (RP-2334)		
Lab Batch #: 897742 Units: mg/kg	Sample: 627936-1-BKS / B Date Analyzed: 10/01/12 15:01		h: 1 Matrix	COVERY	STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	100	100	100	70-135	
o-Terphenyl		53.2	50.0	100	70-135	
Lab Batch #: 897637	Sample: 627872-1-BSD / B	SD Bate	h: 1 Matrix	c: Solid		
Units: mg/kg	Date Analyzed: 09/28/12 13:51		RROGATE R		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Tanka je vo	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene		0.0323	0.0300	108	80-120	
Lab Batch #: 897742	Sample: 627936-1-BSD / B	SD Bate	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 10/01/12 15:29		RROGATE R	2.0	STUDY	
00	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		106	100	106	70-135	
o-Terphenyl		56.7	50.0	113	70-135	
Lab Batch #: 897637	Sample: 449822-001 S / MS	Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 09/28/12 17:33		RROGATE R	ECOVERY S	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0274	0.0300	91	80-120	
4-Bromofluorobenzene		0.0322	0.0300	107	80-120	
Lab Batch #: 897742	Sample: 449818-001 S / MS	Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 10/02/12 00:22	SU	RROGATE R	ECOVERY S	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		101	100	101	70-135	
o-Terphenyl		47.9	50.0	96	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.



Project Name: L-5(8"line)

ork Orders : 449822 Lab Batch #: 897637	2, Sample: 449822-001 SD / N	ASD Bate		D: (RP-2334) : Soil		
Units: mg/kg	Date Analyzed: 09/28/12 17:33		RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorobenzene		0.0274	0.0300	91	80-120	
4-Bromofluorobenzene		0.0322	0.0300	107	80-120	
Lab Batch #: 897742	Sample: 449818-001 SD / M	ASD Bate	h: 1 Matrix	c: Soil		
Units: mg/kg	Date Analyzed: 10/02/12 00:52	SU	RROGATE R	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		100	99.8	100	70-135	
o-Terphenyl		46.8	49.9	94	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: L-5(8"line)

 Work Order #: 449822

 Analyst: KEB

 Lab Batch ID: 897637
 Sample: 627872-1-BKS

Date Prepared: 09/28/2012

Batch #: 1

Project ID: (RP-2334) Date Analyzed: 09/28/2012 Matrix: Solid

Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANKS	PIKE DUPL	ICATE F	RECOVE	RY STUD	X	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	≤0.000998	0.0998	0.107	107	0.0998	0.0975	98	6	70-130	35	
Toluene	<0.00200	0.0998	0.108	108	0.0998	0.0971	67	Ξ	70-130	35	
Ethylbenzene	<0.000998	0.0998	0.102	102	0.0998	0.0932	93	6	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.222	111	0.200	0.205	103	80	70-135	35	
o-Xylene	<0.000998	0.0998	0.109	109	0.0998	0.100	100	6	71-133	35	
Analyst: KFB	De	te Prenar	Date Prenared. 10/01/2012	2			Date An	Date Analyzed: 10/01/2012	2102/10/0		

Analyst: KEB	Da	te Prepar	Date Prepared: 10/01/2012	2			Date A	nalyzed: 1	Date Analyzed: 10/01/2012		
Lab Batch ID: 897742 Sample: 627936-1-BKS	BKS	Batch #:	1 :# 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANK S	PIKE DUPL	ICATE 1	RECOVE	RY STUD	X	\square
TPH By SW8015 Mod	Blank Sample Result IAI	Spike	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	2	[B]	[C]	[0]	[E]	Result [F]	[6]	:			
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	166	66	1000	1020	102	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	980	98	1000	1010	101	3	70-135	35	

Relative Percent Difference RPD = 200*((C-F)/(C+F) Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes

Version: 1.%

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Final 1.000



Form 3 - MS / MSD Recoveries



Work Order #: 449822

Date Analyzed: 09/28/2012 Lab Batch ID: 897637 Reporting Units: mg/kg

Project Name: L-5(8"line)

Project ID: (RP-2334)

Analyst: Batch #: QC- Sample ID: 449822-001 S Date Prepared: 09/28/2012

Matrix: Soil -KEB MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample 1 Result C B B C C	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00105	0.105	0.0897	85	0.105	0.0900	86	0	70-130	35	
Toluene	<0.00209	0.105	0.0844	80	0.105	0.0848	81	0	70-130	35	
Ethylbenzene	<0.00105	0.105	0.0707	67	0.105	0.0710	68	0	71-129	35	х
m_p-Xylenes	<0.00209	0.209	0.150	2	0.210	0.150	71	0	70-135	35	
o-Xylene	<0.00105	0.105	0.0750	11	0.105	0.0753	72	0	71-133	35	
Lab Batch ID: 897742 Q	QC- Sample ID:	449818-001 S	001 S	Bat	Batch #:	1 Matrix:	: Soil				

Date Analyzed: 10/02/2012	Date Prepared: 10/01/2012	10/01/2	012	Ani	Analyst:	KEB					
Reporting Units: mg/kg		M	ATRIX SPIKI	Z/MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	FE RECO	VERY S	TUDY		
TPH By SW8015 Mod	Parent Sample		Spiked Sample Spi Result San	Spiked	Snike	Duplicate Sniked Samule	Spiked	RPD	Control	Control	Flao
A malitice	Result	Added	[C]	%R	Added	Result [F]	%R	%	%R		ſ
Autarytes		[13]		[1]			2				
C6-C12 Gasoline Range Hydrocarbons	<18.8	1250	1230	98	1250	1220	98	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<18.8	1250	1250	100	1250	1240	66	-	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*((C-F)/(C+F))

Version: 1.%

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: L-5(8"line)

Work Order #: 449822

Lab Batch #: 897752			Project I	D: (RP-233	4)
Date Analyzed: 10/01/2012 14:30	Date Prepared: 10/01/2012	Ana	lyst: 🗆 R 🗆		
QC- Sample ID: 449829-001 D	Batch #: 1	Ma	trix: Soil		
Reporting Units: %	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	1.21	1.05	14	15	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Xenco Laboratories



XENCO Laboratories



Comments

Prelogin/Nonconformance Report- Sample Log-In

 Client: Southern Union Gas Services- Monahan
 Acceptable Temperature Range: 0 - 6 degC

 Date/ Time Received: 09/27/2012 02:56:00 PM
 Air and Metal samples Acceptable Range: Ambient

 Work Order #: 449822
 Temperature Measuring device used :

Sample Receipt Checklist		
#1 *Temperature of cooler(s)?	4.8	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	Yes	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst: PH Device/Lot#:

Checklist completed by:

Date: 09/27/2012

Checklist reviewed by:

Date: 09/27/2012



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

December 1, 2009

Camille Bryant Basin Environmental Consulting, LLC. P.O. Box 381 Lovington, NM 88260

Re: 8 Inch Lateral L-5 (SUG)

Enclosed are the results of analyses for sample number H18775, received by the laboratory on 11/20/09 at 4:50 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincerely, une

Celey D. Keene Laboratory Director



ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL ATTN: CAMILLE BRYANT 2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 11/20/09 Reporting Date: 11/30/09 Project Owner: SUG (2009-055) Project Name: 8-INCH LATERAL L-5 Project Location: LEA CO., NM Sampling Date: 11/19/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3.5°C Sample Received By: ML Analyzed By: AB

GRO DRO DRO ext. (C₆-C₁₀) (>C₁₀-C₂₈) (>C₂₆-C₃₅)

LAB NUMBER	SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DA	TE	11/25/09	11/25/09	11/25/09
H18775-1	WEST SW @ 11.5'	<10.0	<10.0	<10.0
H18775-2	SOUTH SW @ 11.5'	<10.0	<10.0	<10.0
H18775-3	NORTH SW @ 11.5'	<10.0	28.4	<10.0
H18775-4	EAST SW @ 11.5'	<10.0	93.2	<10.0
H18775-5	RP FLOOR @ 12'	<10.0	25.2	<10.0
H18775-6	SP-1	<10.0	24.2	<10.0
H18775-7	SP-2	<10.0	36.5	<10.0
H18775-8	SP-3	<10.0	37.4	<10.0
H18775-9	SP-4	<10.0	32.2	<10.0
H18775-10	SP-5	<10.0	15.8	<10.0
H18775-11	SP-6	<10.0	16.2	<10.0
H18775-12	SP-7	<10.0	267	<10.0
H18775-13	SP-8	<10.0	17.2	<10.0
H18775-14	SP-9	<10.0	33.7	<10.0
H18775-15	SP-10	<10.0	30.7	<10.0
H18775-16	SP-11	<10.0	15.2	<10.0
H18775-17	SP-12	<10.0	<10.0	<10.0
H18775-18	STOCKPILE BASELINE	25.5	1,070	61.5*
Quality Contro		447	585	-
True Value QC	second	500	500	
% Recovery		89.4	117	
Relative Perce	nt Difference	10.1	0.4	

METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended. Reported on wet weight. *G35 peak less than 75% of C28 peak. Not accredited for GRO/DRO/EXT DRO.

ene Lab Director

12/01/09

H18775 TPHEXT BASIN

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ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL ATTN: CAMILLE BRYANT 2800 PLAINS HWY LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 11/20/09 Reporting Date: 11/25/09 Project Owner: SUG (2009-055) Project Name: 8-INCH LATERAL L-5 Project Location: LEA CO., NM Sampling Date: 11/19/09 Sample Type: SOIL Sample Condition: COOL & INTACT @ 3.5°C Sample Received By: ML Analyzed By: ZL/HM ETHYL TOTAL

CI*

LAB NO. SAMPLE ID

BENZENE TOLUENE BENZENE XYLENES

	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE:	11/23/09	11/23/09	11/23/09	11/23/09	11/24/09
H18775-1 WEST SW @ 11.5'	< 0.050	<0.050	<0.050	< 0.300	64
H18775-2 SOUTH SW @ 11.5'	< 0.050	< 0.050	< 0.050	< 0.300	96
H18775-3 NORTH SW @ 11.5'	< 0.050	<0.050	< 0.050	< 0.300	< 16
H18775-4 EAST SW @ 11.5'	< 0.050	<0.050	< 0.050	< 0.300	< 16
H18775-5 RP FLOOR @ 12'	< 0.050	< 0.050	< 0.050	<0.300	112
H18775-6 SP-1	< 0.050	<0.050	< 0.050	< 0.300	< 16
H18775-7 SP-2	< 0.050	< 0.050	< 0.050	<0.300	< 16
H18775-8 SP-3	< 0.050	< 0.050	< 0.050	< 0.300	< 16
H18775-9 SP-4	< 0.050	< 0.050	< 0.050	< 0.300	< 16
H18775-10 SP-5	< 0.050	< 0.050	< 0.050	<0.300	< 16
H18775-11 SP-6	< 0.050	< 0.050	<0.050	<0.300	< 16
H18775-12 SP-7	< 0.050	<0.050	0.090	0.378	64
H18775-13 SP-8	< 0.050	< 0.050	<0.050	< 0.300	< 16
H18775-14 SP-9	< 0.050	<0.050	<0.050	<0.300	< 16
H18775-15 SP-10	< 0.050	< 0.050	< 0.050	<0.300	< 16
H18775-16 SP-11	< 0.050	< 0.050	< 0.050	< 0.300	< 16
H18775-17 SP-12	< 0.050	<0.050	< 0.050	<0.300	< 16
H18775-18 STOCKPILE BASELINE	< 0.050	<0.050	0.257	1.19	< 16
Quality Control	0.049	0.048	0.050	0.150	490
True Value QC	0.050	0.050	0.050	0.150	500
% Recovery	98.0	96.0	100	100	98.0
Relative Percent Difference	1.0	<1.0	<1.0	<1.0	2.0

METHODS: BTEX - SW-846 8021B; CI-: Std. Methods 4500-CI-B

*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Not accredited for Chloride.

une Lab Director

12/01/09

H18775 BCL BASIN

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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.