Administrative/Environmental Order



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: pGRL1411842868

1RP - 3033

LEGACY RESERVES OPERATING, LP

7/29/2016



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

LEGACY LJU #59 5/15/14

May 05, 2014

TODD ROBERSON TRINITY OILFIELD SERVICES & RENTALS, LLC P. O. BOX 2587 HOBBS, NM 88241

RE: LJU #59 LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/02/14 13:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Side wall

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC TODD ROBERSON P. O. BOX 2587 HOBBS NM, 88241 Fax To:

Received:	05/02/2014	Sampling Date:	05/02/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	LJU #59 LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	NOT GIVEN		

Sample ID: 59-1001 (H401348-01)

BTEX 8260B	mg/	/kg	Analyze	d By: ms					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.050	0.050	05/05/2014	ND	2.48	124	2.00	0.626	
Toluene*	< 0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	< 0.150	0.150	05/05/2014	ND	6.42	107	6.00	4.81	
Total BTEX	<0.300	0.300	05/05/2014	ND					
Surrogate: Dibromofluoromethane	96.3	% 61.3-14	2						
Surrogate: Toluene-d8	107 5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	100 9	65.7-14	1						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2014	ND	190	95.0	200	0.401	
DRO >C10-C28	<10.0	10.0	05/05/2014	ND	225	112	200	5.17	
Surrogate: 1-Chlorooctane	102 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.2	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim artsing, 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 whateoever shall be deemed wahed 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 incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by dent, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reprodued except in full with written approval of Cardinal Laborations.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Botton Hole

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC TODD ROBERSON P. O. BOX 2587 HOBBS NM, 88241 Fax To:

Received:	05/02/2014	Sampling Date:	05/02/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	LJU #59 LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	NOT GIVEN		

Sample ID: 59-1002 (H401348-02)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie	
Benzene*	< 0.050	0.050	05/05/2014	ND	2.48	124	2.00	0.626	
Toluene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.57	
Ethylbenzene*	< 0.050	0.050	05/05/2014	ND	2.05	102	2.00	6.01	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.42	107	6.00	4.81	
Total BTEX	<0.300	0.300	05/05/2014	ND					
Surrogate: Dibromofluoromethane	97.6 9	61.3-14	2						
Surrogate: Toluene-d8	105 9	6 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99.5 9	65.7-14	1						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	288	16.0	05/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	288 16.0 mg/kg		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	05/05/2014	ND	190	95.0	200	0.401	
DRO >C10-C28	<10.0	10.0	05/05/2014	ND	225	112	200	5.17	
Surrogate: 1-Chlorooctane	107 9	6 65.2-14	0						
GRO C6-C10 <10.0 10.0		4							

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

**

- Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
 - Chloride by SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

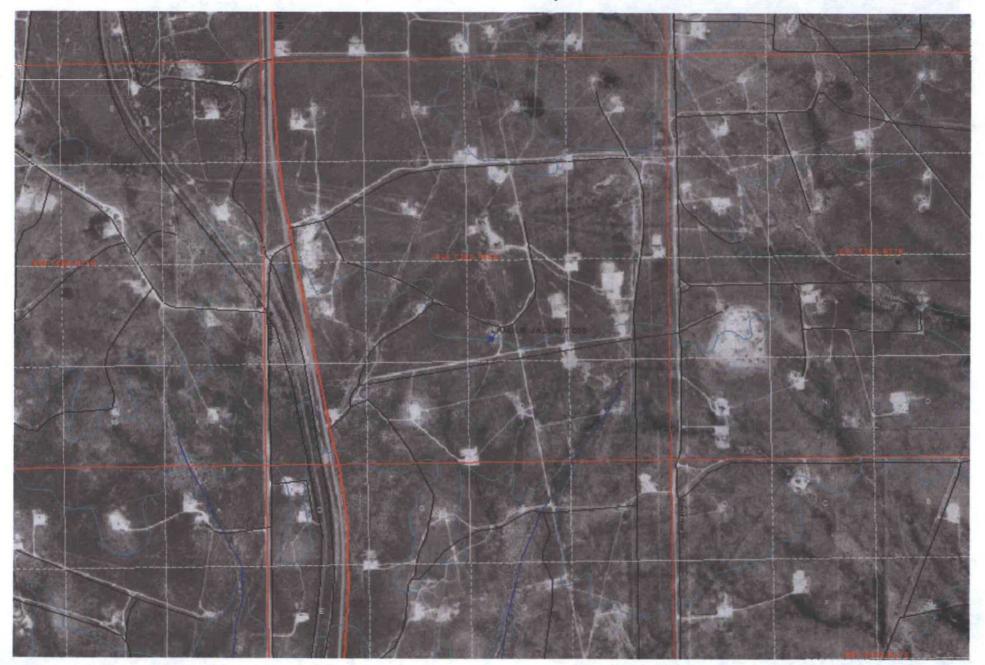
CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	(575) 393-2326 FAX (575) 393-24						T		B	ILL TO		ANALYSIS REQUEST											
Project Manager	" Manuel Spriano						Ρ.	0. #													Rent		
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Phone #: 432- 269-8806 Fax #:						ddre		201	~~~	1	10	h	En	N	29	38	7						
	SU#59Line Project Owne	r:					ci	ity:				1	P.E	P:	PC In	F	11	N	9	540	24	1	
Project Name:	LJUH59Line							ate:		Zip:		1	H	ØK	Pe	21	41	-	17	a			
Project Location							PI	hone	#:			1	10	57	5-	63	51	- 9	14	4. . .			
Sampler Name:								x #:															
FOR LAB USE ONLY					MAT	RIX		PR	ESER	V. SAMPI	LING	1-2											
Lab I.D. Hงงารแร 2	Sample I.D. 59-1001 59-1002	(G)RAB OR (C)OMP	- # CONTAINERS	GROUNDWATER	V SOIL	OIL	SLUDGE OTHER :	ACID/BASE:	ICE / COOL	DATE SJAN SJAN	TIME 127307 127307	< Chlori	(Rkv	Hall is									
All claims includes avvice. In no event shall Cr Mates or successors area Relinquished By Relinquished By Delivered By:	nd Damages. Cardinal's liability and client's exclusive remedy for ardinal be liable for regigence and any other cause whateoever shall be ardinal be liable for incidental or consequential damages, includin on out of or related to the performance of services hereurder by y: Date: y: Date: Time: : (Circle One) - Bus - Other: 76 -710 # 5	deemed g without Cardinal Red (waived limitation regardition	ed B ed B	made in iness inte whether s	Cond	and rec rs, loss im is ba	elved b of use, sed up	or loss o on any of CHEC	al within 30 days a	ter completion of the y client, its subsidia teasons or otherwise Phone Re Fax Resul REMARKS	he applicat iries, id. sult: lt: g.	□ Ye □ Ye	s 🗆	No No	Add'I P Add'I F Bor io Triw	ax #:		ad s	Roser	iveste	ion igno	NI. C.

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

RBDMS Map

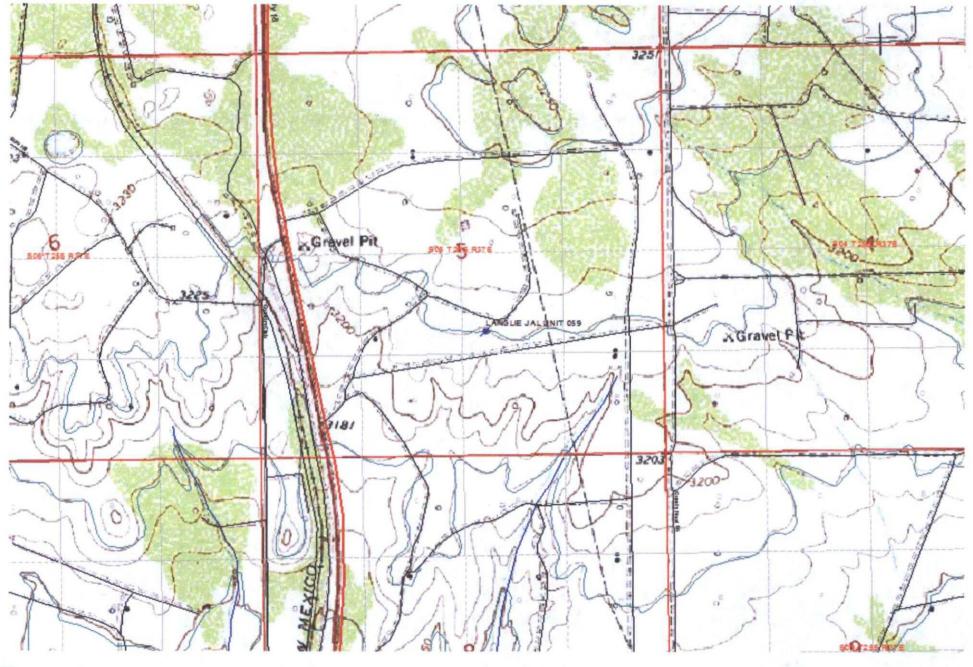




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5/19/2014 11:55:05 AM

RBDMS Map

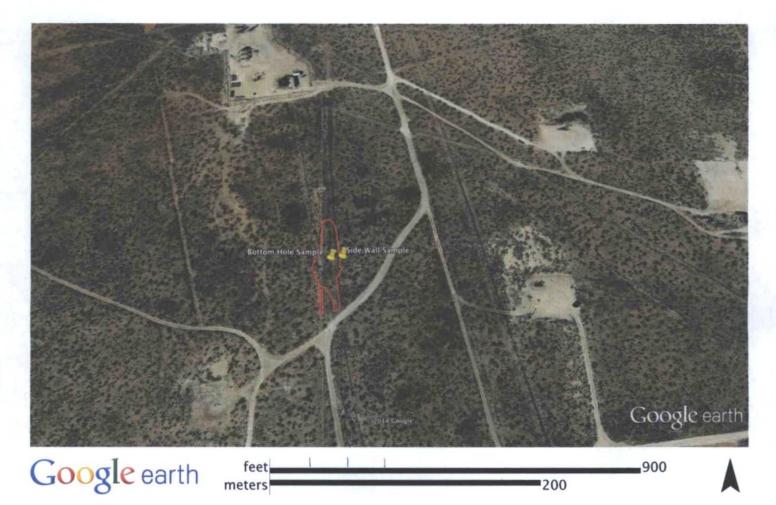




MapNotes

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5/19/2014 11:55:38 AM



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