# NM1 - \_23\_\_

# MONITORING REPORT

YEAR(S):

2017-2018\_\_\_

J&L LANDFARM INC

5/15/2017

2011 AUG 21 P 2: 48

Oil Conservation Division - NMOCD 1120 South ST. Francis Drive Santa Fe, NM 87505 ATTN: Brad Jones

1st Quarter 2017 Cell Testing

### Dear Mr. Jones

Attached is the First Quarter Analytical Testing on the Vadose zone required for all active cells at J&L Landfarm Inc. Cells tested were 33, 40, 41, 42, 43, 44, 45, 47 and 49 of the pre 2007 cells, and 46, 51 and 52 of the post 2007 cells. Sample points are designated on the attached map. Please contact us if you have any questions. Thank you and have a great day!

**Judy Roberts** 

Owner

Michelle Kuhn

Office/Landfarm Operations Mgr

Michelle D. Zuhn

J&L Landfarm inc 575-631-5766

Sample	Date	Depth	Chlo	oride	ВТ	EX		ТІ	РН	
Backgrour Backgrour			Waiting on	Backgroun	d Approval		C	RO	DRO/C	10-C28
backgroui	iu (uate).		RL	Results	RL	Results	RL	Results	RL	Results
Cell #	T		112	ricourto	100	resures		resures		nesures
33	5/12/2017	3ft	16	16	0.3	<0.3	10	<10	10	<10
Cell #										
45	5/12/2017	3ft	16	48	0.3	<0.3	10	<10	10	<10
Cell #										
44	5/12/2017	3ft	16	32	0.3	<0.3	10	<10	10	<10
Cell #										
43	5/12/2017	3ft	16	16	0.3	<0.3	10	<10	10	<10
Cell #										
42	5/12/2017	3ft	16	32	0.3	<0.3	10	<10	10	<10
Cell #										2
41	5/12/2017	3ft	16	32	0.3	<0.3	10	<10	10	<10
Cell #										
40	5/12/2017	3ft	16	16	0.3	<0.3	10	<10	10	<10
Cell #	5/12/2017	3ft	16	32	0.3	<0.3	10	<10	10	<10
	, ==, ===									
Cell#										-
49	5/12/2017	3ft	16	64	0.3	<0.3	10	<10	10	<10
Cell#								>		
46	5/12/2017	3ft	16	32	0.3	<0.3	10	<10	10	<10

Sample	Date	Depth	Chlo	oride	ВТ	EX		TF	РН	
Backgroun			Waiting on	Backgroun	d Approval			_		
Backgroun	id (date):		DI	Doculto	DI	Results		RO		10-C28
Cell #			RL	Results	RL	Kesuits	RL	Results	RL	Results
51	5/12/2017	3ft	16	32	0.3	<0.3	10	<10	10	<10
<b>Cell #</b> 52	5/12/2017	3ft	16	48	0.3	<0.3	10	<10	10	<10
Cell#		3ft	16		0.3		10		10	
Cell#		3ft	16		0.3		10		10	
Cell#		3ft	16		0.3		10		10	
Cell #		3ft	16		0.3		10		10	
Cell#		3ft	16		0.3		10		10	
Cell #		3ft	16		0.3		10		10	
Cell #		3ft	16		0.3		10		10	
Cell#		3ft	16		0.3		10		10	





May 12, 2017

**JUDY ROBERTS** 

J & L LANDFARM INC

8301 EUNICE HWY

HOBBS, NM 88240

**RE: VADOSE** 

Enclosed are the results of analyses for samples received by the laboratory on 05/04/17 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



J & L LANDFARM INC JUDY ROBERTS 8301 EUNICE HWY HOBBS NM, 88240 Fax To: NA

Received:

05/04/2017

Reported:

05/12/2017

Project Name:

VADOSE

Project Number: Project Location: FIRST QUARTER 2017

LEA COUNTY, NM

Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CELL # 33 (H701200-01)

BTEX 80218	mg/	kg	Analyze	d By: MS					
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2017	ND	1.86	93.1	2.00	0.758	
Toluene*	<0.050	0.050	05/05/2017	ND	1.72	85.8	2.00	0.799	
Ethylbenzene*	<0.050	0.050	05/05/2017	ND	1.69	84.6	2.00	0.614	
Total Xylenes*	<0.150	0.150	05/05/2017	ND	4.78	79.7	6.00	0.759	
Total BTEX	<0.300	0.300	05/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.2	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/08/2017	ND	432	108	400	0.00	
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	05/12/2017	ND	180	89.9	200	4.56	
DRO >C10-C28	<10.0	10.0	05/12/2017	ND	201	101	200	3.13	
Surrogate: 1-Chlorooctane	84.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.4	% 34.7-15	7						

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\*=Accredited Analyte

PLEASE NOTE: Uability 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 Cardinal, regardless of whether such claims to the performance of the services hereunder by Cardinal, regardless of whether such

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Received:

05/04/2017

Reported:

05/12/2017

Project Name:

VADOSE

Project Number: Project Location:

FIRST QUARTER 2017

LEA COUNTY, NM

90.8 %

34.7-157

Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CELL # 40 (H701200-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2017	ND	1.86	93.1	2.00	0.758	
Toluene*	<0.050	0.050	05/05/2017	ND	1.72	85.8	2.00	0.799	
Ethylbenzene*	<0.050	0.050	05/05/2017	ND	1.69	84.6	2.00	0.614	
Total Xylenes*	<0.150	0.150	05/05/2017	ND	4.78	79.7	6.00	0.759	
Total BTEX	<0.300	0.300	05/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.6	% 72-148	}						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC			;-,;-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/08/2017	ND	432	108	400	0.00	
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	05/05/2017	ND	180	89.9	200	4.56	
DRO >C10-C28	<10.0	10.0	05/05/2017	ND	201	101	200	3.13	
Surrogate: 1-Chlorooctane	94.1	% 28.3-16	4						

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Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Fax To:

Received:

05/04/2017

Reported:

05/12/2017

Project Name:

**VADOSE** 

**Project Number:** Project Location: **FIRST QUARTER 2017** 

LEA COUNTY, NM

Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

### Sample ID: CELL # 41 (H701200-03)

BTEX 8021B	mg/	kg	Analyze	ed By: MS		· <del>-</del>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2017	ND	1.86	93.1	2.00	0.758	
Toluene*	<0.050	0.050	05/05/2017	ND	1.72	85.8	2.00	0.799	
Ethylbenzene*	<0.050	0.050	05/05/2017	ND	1.69	84.6	2.00	0.614	
Total Xylenes*	<0.150	0,150	05/05/2017	ND	4.78	79.7	6.00	0.759	
Total BTEX	<0.300	0.300	05/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.6	% 72-148	·				,		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		. <u>.</u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2017	ND	191	95.5	200	2.60	
DRO >C10-C28	<10.0	10.0	05/05/2017	ND	211	105	200	2.93	
Surrogate: 1-Chlorooctane	50.75	% 28.3-16	4	·	· · · · · · · · · · · · · · · · · · ·		<del>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		
Surrogate: 1-Chlorooctadecane	73.4 9	% 34.7-15	7						

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\*=Accredited Analyte

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J & L LANDFARM INC JUDY ROBERTS 8301 EUNICE HWY HOBBS NM, 88240 Fax To: NA

Received:

05/04/2017

Reported:

05/12/2017

Project Name: Project Number: VADOSE

Project Location:

Analyte

FIRST QUARTER 2017 LEA COUNTY, NM

Reporting Limit

Sampling Date:

05/03/2017

Sampling Type:

BS

% Recovery

Soil

True Value QC

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

RPD

Qualifier

Sample ID: CELL # 42 (H701200-04)

OTEV GOODED		
	OTEV	8021R

ma	1	kc
3302		~~?

78.1 %

34.7-157

Result

### Analyzed By: MS

Method Blank

Analyzed

Benzene*	<0.050	0.050	05/05/2017	ND	1.86	93.1	2.00	0.758	
Toluene*	<0.050	0.050	05/05/2017	ND	1.72	85.8	2.00	0.799	
Ethylbenzene*	<0.050	0.050	05/05/2017	ND	1.69	84.6	2.00	0.614	
Total Xylenes*	<0.150	0.150	05/05/2017	ND	4.78	79.7	6.00	0.759	
Total BTEX	<0.300	0.300	05/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.3	% 72-148	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC		· _ · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte  Chloride	Result	Reporting Limit 16.0	Analyzed 05/08/2017	Method Blank ND	BS 432	% Recovery	True Value QC 400	RPD 0.00	Qualifier
•		16.0	05/08/2017			•	_		Qualifier
Chloride	32.0	16.0	05/08/2017	ND		•	_		Qualifier Qualifier
Chloride TPH 8015M	32.0 mg/	16.0 /kg	05/08/2017 Analyze	ND d By: MS	432	108	400	0.00	
Chloride TPH 8015M Analyte	32.0 mg/ Result	16.0 /kg Reporting Limit	05/08/2017 Analyze Analyzed	ND d By: MS Method Blank	432 BS	108 % Recovery	400 True Value QC	0.00 RPD	

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Surrogate: 1-Chlorooctadecane

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J & L LANDFARM INC JUDY ROBERTS 8301 EUNICE HWY HOBBS NM, 88240 Fax To: NA

Received:

05/04/2017

Reported:

RTEY ROOTR

05/12/2017

Project Name:

VADOSE

Project Number: Project Location:

FIRST QUARTER 2017

LEA COUNTY, NM

ma/ka

Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: CELL # 43 (H701200-05)

BIEX 8021B	mg/	Kg .	Алагуге	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2017	ND ·	2.07	104	2.00	0.495	
Toluene*	<0.050	0.050	05/05/2017	ND	1.88	93.8	2.00	0.446	
Ethylbenzene*	<0.050	0.050	05/05/2017	ND	1.82	91.0	2.00	0.875	
Total Xylenes*	<0.150	0.150	05/05/2017	ND	5.19	86.4	6.00	1.11	
Total BTEX	<0.300	0.300	05/05/2017	ND			·		
Surrogate: 4-Bromofluorobenzene (PIL	96.79	% 72-148					-		
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/08/2017	ND	432	108	400	0.00	
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	05/05/2017	, ND	191	95.5	200	2.60	
DRO >C10-C28	<10.0	10.0	05/05/2017	ND	211	105	200	2.93	
Surrogate: 1-Chlorooctane	60.2 %	6 28.3-164	!						
Surrogate: 1-Chlorooctadecane	73.49	6 34.7-157	•						

Analyzed By- MS

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\*=Accredited Analyte

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Celey D. Keine



J & L LANDFARM INC **JUDY ROBERTS** 8301 EUNICE HWY **HOBBS NM, 88240** Fax To: NA

Received:

05/04/2017

Reported:

**BTEX 8021B** 

05/12/2017

Project Name:

VADOSE

Project Number: Project Location: **FIRST QUARTER 2017** 

LEA COUNTY, NM

ma/ka

<10.0

*53.2 %* 

54.1 %

10.0

28.3-164

34.7-157

Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

200

2.93

Sample ID: CELL # 44 (H701200-06)

2117 00210		/ ng	Analyzo	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2017	ND	2.07	104	2.00	0.495	
Toluene*	<0.050	0.050	05/05/2017	ND	1.88	93.8	2.00	<b>0.44</b> 6	
Ethylbenzene*	<0.050	0.050	05/05/2017	ND	1.82	91.0	2.00	0.875	
Total Xylenes*	<0.150	0.150	05/05/2017	ND	5.19	86.4	6.00	1.11	
Total BTEX	<0.300	0.300	05/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.2	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS			<del></del>		<del></del>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2017	ND	191	95.5	200	2.60	

ND

211

105

05/05/2017

Analyzed Rv. MC

# **Cardinal Laboratories**

DRO >C10-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg D. Keens



J & L LANDFARM INC JUDY ROBERTS 8301 EUNICE HWY HOBBS NM, 88240 Fax To: NA

Received:

05/04/2017

Reported:

05/12/2017

Project Name: Project Number: VADOSE

Project Location:

FIRST QUARTER 2017

LEA COUNTY, NM

Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: CELL # 45 (H701200-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2017	ND	2.07	104	2.00	0.495	
Toluene*	<0.050	0.050	05/05/2017	ND	1.88	93.8	2.00	0.446	
Ethylbenzene*	<0.050	0.050	05/05/2017	ND	1.82	91.0	2.00	0.875	
Total Xylenes*	<0.150	0.150	05/05/2017	ND	5.19	86.4	6.00	1.11	
Total BTEX	<0.300	0.300	05/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.69	% 72-148	}						******
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/08/2017	ND .	416	104	400	0.00	QR-03
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	05/05/2017	ND	191	95.5	200	2.60	
DRO >C10-C28	<10.0	10.0	05/05/2017	ND	211	105	200	2.93	
Surrogate: 1-Chlorooctane	56.7 9	6 28.3-16	4		<del></del>				
Surrogate: 1-Chlorooctadecane	69.79	6 34.7-15	7						

### **Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene



J & L LANDFARM INC JUDY ROBERTS 8301 EUNICE HWY HOBBS NM, 88240 Fax To: NA

Received:

05/04/2017

Reported:

05/12/2017

Project Name:

VADOSE

Project Number:

FIRST QUARTER 2017

Project Location:

LEA COUNTY, NM

Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: CELL # 46 (H701200-08)

BTEX 80218	mg/	kg	Analyze	d By: MS			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2017	, ND	2.07	104	2.00	0.495	
Toluene*	<0.050	0.050	05/05/2017	ND	1.88	93.8	2.00	0.446	
Ethylbenzene*	<0.050	0.050	05/05/2017	ND	1.82	91.0	2.00	0.875	
Total Xylenes*	<0.150	0.150	05/05/2017	ND	5.19	86.4	6.00	1.11	
Total BTEX	<0.300	0.300	05/05/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.89	% 72-148					. <u> </u>		
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						<del></del>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/08/2017	ND	416	104	400	0.00	
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	05/05/2017	ND	191	95.5	200	2.60	
DRO >C10-C28	<10.0	10.0	05/05/2017	ND	211	105	200	2.93	
Surrogate: 1-Chlorooctane	84.8 %	6 28.3-164	1						
Surrogate: 1-Chlorooctadecane	86.19	% 34.7-15%	7						

### **Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keine



J & L LANDFARM INC JUDY ROBERTS 8301 EUNICE HWY HOBBS NM, 88240 Fax To: NA

Received:

05/04/2017

Reported:

05/12/2017

Project Name: Project Number: VADOSE

FIRST QUARTER 2017

Project Location:

LEA COUNTY, NM

Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: CELL # 47 (H701200-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2017	ND	2.07	104	2.00	0.495	
Toluene*	<0.050	0.050	05/06/2017	ND	1.88	93.8	2.00	0.446	
Ethylbenzene*	<0.050	0.050	05/06/2017	ND	1.82	91.0	2.00	0.875	
Total Xylenes*	<0.150	0.150	05/06/2017	ND	5.19	86.4	6.00	1.11	
Total BTEX	<0.300	0.300	05/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.6	% 72-148	,						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/08/2017	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS			<u></u>		····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/05/2017	ND	191	95.5	200	2.60	
DRO >C10-C28	<10.0	10.0	05/05/2017	ND	211 /	105	200	2.93	
Surrogate: 1-Chlorooctane	76.6	% 28.3-16	4						

Surrogate: 1-Chlorooctadecane

75.0 %

34.7-157

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Celey & Keene



J & L LANDFARM INC JUDY ROBERTS 8301 EUNICE HWY HOBBS NM, 88240 Fax To: NA

Received:

05/04/2017

Reported:

05/12/2017

Project Name:

VADOSE

Project Number: Project Location:

VADOJE EIDET OHADTED 2017

FIRST QUARTER 2017 LEA COUNTY, NM Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: CELL # 49 (H701200-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS		·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	rpd	Qualifier
Benzene*	<0.050	0.050	05/06/2017	ND	2.07	104	2.00	0.495	
Toluene*	<0.050	0.050	05/06/2017	ND	1.88	93.8	2.00	0.446	
Ethylbenzene*	<0.050	0.050	05/06/2017	ND	1.82	91.0	2.00	0.875	
Total Xylenes*	<0.150	0.150	05/06/2017	ND .	5.19	86.4	6.00	1.11	
Total BTEX	<0.300	0.300	05/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.5	% 72-148	<u> </u>						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/08/2017	ND	416	104	400	0.00	
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	05/05/2017	ND	191	95.5	200	2.60	
DRO >C10-C28	<10.0	10.0	05/05/2017	ND	211	105	200	2.93	
Surrogate: 1-Chlorooctane	71.49	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.39	% 34.7-15	7						

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\*=Accredited Analyte

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Celey D. Keene



J & L LANDFARM INC
JUDY ROBERTS
8301 EUNICE HWY
HOBBS NM, 88240
Fax To: NA

Received:

05/04/2017

Reported:

05/12/2017

Project Name:

VADOSE

Project Number: Project Location:

FIRST QUARTER 2017

LEA COUNTY, NM

Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CELL # 51 (H701200-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2017	ND	2.07	104	2.00	0.495	
Toluene*	<0.050	0.050	05/06/2017	ND	1.88	93.8	2.00	0.446	
Ethylbenzene*	<0.050	0.050	05/06/2017	ND	1.82	91.0	2.00	0.875	
Total Xylenes*	<0.150	0.150	05/06/2017	ND	5.19	86.4	6.00	1.11	
Total BTEX	<0.300	0.300	05/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.6	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC		. <u></u>		····	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/08/2017	ND	416	104	400	0.00	
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	05/05/2017	ND	191	95.5	200	2.60	
DRO >C10-C28	<10.0	10.0	05/05/2017	ND	211	105	200	2.93	
Surrogate: 1-Chlorooctane	63.5	% 28.3-16	4						_,
Surrogate: 1-Chlorooctadecane	65.8	% 34.7-15	7						

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\*=Accredited Analyte

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Celey & Keens



J & L LANDFARM INC JUDY ROBERTS 8301 EUNICE HWY HOBBS NM, 88240 Fax To: NA

Received:

05/04/2017

Reported:

**BTEX 8021B** 

05/12/2017

Project Name:

**VADOSE** 

Project Number:

FIRST QUARTER 2017

Project Location:

LEA COUNTY, NM

mg/kg

57.0%

68.6 %

28.3-164

34.7-157

Sampling Date:

05/03/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: CELL # 52 (H701200-12)

			<u>-</u>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2017	ND	2.07	104	2.00	0.495	
Toluene*	<0.050	0.050	05/06/2017	ND	1.88	93.8	2.00	0.446	
Ethylbenzene*	<0.050	0.050	05/06/2017	ND	1.82	91.0	2.00	0.875	
Total Xylenes*	<0.150	0.150	05/06/2017	ND	5.19	86.4	6.00	1.11	
Total BTEX	<0.300	0.300	05/06/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.2	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/08/2017	ND	416	104	400	0.00	
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	05/05/2017	ND	191	95.5	200	2.60	
DRO >C10-C28	<10.0	10.0	05/05/2017	ND	211	105	200	2.93	

Analyzed By: MS

# Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg & Keens



### **Notes and Definitions**

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-03
The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07
The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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 SM4500Cl-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

**Cardinal Laboratories** 

\*=Accredited Analyte

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Celey D. Keene



# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

ANALYSIS DECLIEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name	JEL kund	Jarm									1	]][		70		A P					ANA	LYS	IS R	EQL	ES	T			
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# **J&L LANDFARM INC**

# PO BOX 356 HOBBS NM 88241

2/13/2017

Oil Conservation Division – NMOCD 1120 South ST. Francis Drive Santa Fe, NM 87505 ATTN: Brad Jones

4th Quarter 2016 Cell Testing

### Dear Mr. Jones

Attached is the Third Quarter Analytical Testing on the Vadose zone required for all active cells at J&L Landfarm Inc. Cells tested were 33, 40, 41, 42, 43, 44, 45, 47 and 49. The designated cells were also tested for RCRA metals. Sample points are designated on the attached map. Because cells 46, 51 and 52 were post 2007 and are under the semi annual testing requirements, they were not tested this quarter. Because of this RCRA Metals testing was not performed. Those three cells will be tested for RCRA Metals on the first quarter testing of 2017. Please contact us if you have any questions. Thank you and have a great day!

**Judy Roberts** 

Owner

Michelle Kuhn

Office/Landfarm Operations Mgr

Michelle Ruhn

J&L Landfarm inc 575-631-5766



X - designates sample points 23'

Sample	Date	Depth	Chlo	oride	ВТ	EX		Т	PH	
Backgroun Backgroun			Waiting on	Background	d Approval		G	RO	DRO/C	10-C28
	, , ,		RL	Results	RL	Results	RL	Results	RL	Results
<b>Cell #</b> 33	1/26/2017	3ft	16	<16	0.3	<0.3	10	<10	10	<10
<b>Cell #</b> 45	1/26/2017	3ft	16	80 .	0.3	<0.3	10	<10	10	<10
Cell # 44	1/26/2017	3ft	16	<16	0.3	<0.3	10	<10	10	26.8
<b>Cell #</b> 43	1/26/2017	3ft	16	<16	0.3	<0.3	10	<10	10	<10
<b>Cell #</b> 42	1/26/2017	3ft	16	<16	0.3	<0.3	10	<10	10	<10
<b>Cell #</b> 41	1/26/2017	3ft	16	<16	0.3	<0.3	10	<10	10	20.4
<b>Cell #</b> 40	1/26/2017	3ft	16	<16	0.3	<0.3	10	<10	10	
<b>Cell #</b> 47	1/26/2017	3ft	16	<16	0.3	<0.3	10	<10	10	<10
<b>Cell #</b> 49	1/26/2017	3ft	16	<16	0.3	<0.3	10	<10	10	<10



February 10, 2017

JUDY ROBERTS

J & L LANDFARM INC

8301 EUNICE HWY

**HOBBS, NM 88240** 

RE: QUARTERLY SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 01/26/17 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B

Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2

Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240 Project: QUARTERLY SAMPLING

Project Number: NONE GIVEN

Project Manager: JUDY ROBERTS

Fax To: NA

Reported: 10-Feb-17 12:38

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
CELL #33	H700194-01	Soil	26-Jan-17 00:00	26-Jan-17 14:45	
CELL #40	H700194-02	Soil	26-Jan-17 00:00	26-Jan-17 14:45	
CELL #41	H700194-03	Soil	26-Jan-17 00:00	26-Jan-17 14:45	
CELL #42	H700194-04	Soil	26-Jan-17 00:00	26-Jan-17 14:45	
CELL #43	H700194-05	Soil	26-Jan-17 00:00	26-Jan-17 14:45	
CELL #44	H700194-06	Soil	26-Jan-17 00:00	26-Jan-17 14:45	
CELL #45	H700194-07	Soil	26-Jan-17 00:00	26-Jan-17 14:45	
CELL #47	H7001 <del>94-</del> 08	Soil	26-Jan-17 00:00	26-Jan-17 14:45	
CELL #49	H700194-09	Soil	26-Jan-17 00:00	26-Jan-17 14:45	

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\*=Accredited Analyte

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Celey D. Keene



J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240 Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN
Project Manager: JUDY ROBERTS

10-Feb-17 12:38

Fax To: NA

# CELL #33 H700194-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds	·		<u> </u>							
Chloride	<16.0		16.0	mg/kg	4	7012709	AC	30-Jan-17	4500-Cl-B	
Volatile Organic Compounds b	v EPA Method	8021								
Benzene*	<0.050		0.050	mg/kg	50	7013003	MS	31-Jan-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7013003	MS	31-Jan-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7013003	MS	31-Jan-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7013003	MS	31-Jan-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7013003	MS	31-Jan-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	73.6	140	7013003	MS	31-Jan-17	8021B	
Petroleum Hydrocarbons by G	C FID						<del></del>		****	
GRO C6-C10	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctane			86.3 %	<i>35</i>	147	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctadecane			91.0%	28	171	7012704	MS	28-Jan-17	8015B	

## **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	88.1		%	. 1	B702040	BDV	06-Feb-17	EPA160.3/16 84	H2
Total Metals by ICP	<del></del>	<del>,</del>							
Arsenic	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Barium	74.7	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Cadmium	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Chromium	8.14	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Lead	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Selenium	<20.0	20.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Silver	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	

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Celey & Kenne



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

# Analytical Results For:

J & L LANDFARM INC 8301 EUNICE HWY **HOBBS NM, 88240** 

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

# **CELL #33**

H700194-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	ratories					
Total Mercury by CVAA					-				·	
Mercury	<0.114		0.114	mg/kg dry	500	B702056	LLG	08-Feb-17	EPA7471	

Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keene



J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN Project Manager: JUDY ROBERTS 10-Feb-17 12:38

Fax To: NA

# **CELL #40** H700194-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		า	Cardina	l Laborat	ories	-	,			
Inorganic Compounds		_								
Chloride	<16.0		16.0	mg/kg	4	7012709	AC	30-Jan-17	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	<0.050		0.050	mg/kg	50	7013003	MS	31-Jan-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7013003	MS	31-Jan-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7013003	MS	31-Jan-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7013003	MS	31-Jan-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7013003	MS	31-Jan-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	73.6	-140	7013003	MS	31-Jan-17	8021B	
Petroleum Hydrocarbons by GC	FID	_					<u></u>			
GRO C6-C10	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctane			74.5 %	35	147	7012704	MS	28-Jan-17	8015B	
Surrogate: I-Chlorooctadecane			69.1 %	28-	171	7012704	MS	28-Jan-17	8015B	

### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	89.7		%	1	B702040	BDV	06-Feb-17	EPA160.3/16 84	H2
Total Metals by ICP			` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		***				
Arsenic	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Barium	72.3	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Cadmium	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Chromium	8.53	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Lead	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Selenium	<20.0	20.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Silver	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	

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\*=Accredited Analyte

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Celley & Keine



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

# Analytical Results For:

J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240 Project: QUARTERLY SAMPLING

Reported: 10-Feb-17 12:38

Project Number: NONE GIVEN

Project Manager: JUDY ROBERTS

Fax To: NA

CELL#40

H700194-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories			1		
Total Mercury by CVAA							<del> </del>			
Mercury	<0.111		0.111	mg/kg dry	500	B702056	LLG	08-Feb-17	EPA7471	

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\*=Accredited Analyte

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Celeg & Keine



J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240 Project: QUARTERLY SAMPLING

Project Number: NONE GIVEN

Reported: 10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

# CELL #41 H700194-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	7012709	AC	30-Jan-17	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	<0.050	-	0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		102 %	73.6	-140	7013104	MS	31-Jan-17	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
DRO >C10-C28	20.4		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctane			91.4%	35-	147	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctadecane			100 %	28-	171	7012704	MS	28-Jan-17	8015B	

### **Green Analytical Laboratories**

General Chemistry		,							
% Dry Solids	89.4		%	1	B702040	BDV	06-Feb-17	EPA 160.3/16 84	H2
Total Metals by ICP			······						
Arsenic	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Barium	76.2	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Cadmium	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Chromium	8.43	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Lead	<10.0	10.0	mg/kg dry	100	B702042	LLG .	07-Feb-17	6010B	
Selenium	<20.0	20.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Silver	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	

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Celey D. Keine



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

# **Analytical Results For:**

J & L LANDFARM INC 8301 EUNICE HWY **HOBBS NM, 88240** 

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

# CELL#41

### H700194-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Lab	oratories					
Total Mercury by CVAA										
Mercury	<0.112		0.112	mg/kg dry	500	B702056	LLG	08-Feb-17	EPA7471	

Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keena

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 29



J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN Project Manager: JUDY ROBERTS 10-Feb-17 12:38

Fax To: NA

# **CELL#42** H700194-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds						·				
Chloride	<16.0		16.0	mg/kg	4	701270 <del>9</del>	AC	30-Jan-17	4500-CI-B	
Volatile Organic Compounds by	v EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	<u>-</u>
Toluene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	73.6	-140	7013104	MS	31-Jan-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctane			87.3 %	35-	147	7012704	MS	28-Jan-17	8015B	<del></del>
Surrogate: 1-Chlorooctadecane			91.2 %	<i>28-</i>	171	7012704	MS	28-Jan-17	8015B	

## **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	90.2		%	1 .	B702040	BDV	06-Feb-17	EPA160.3/16 84	H2
Total Metals by ICP									
Arsenic	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Barium	70.2	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Cadmium	<5.00	5.00	mg/kg dry	100	B702042	LLG ·	07-Feb-17	6010B	
Chromium	8.10	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Lead	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Selenium	<20.0	20.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Silver	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	

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\*=Accredited Analyte

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Celly D. Kune



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

# Analytical Results For:

J & L LANDFARM INC 8301 EUNICE HWY **HOBBS NM, 88240** 

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

# **CELL #42**

### H700194-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Lab	oratories					
Total Mercury by CVAA										
Mercury	<0.111		0.111	mg/kg dry	500	B702056	LLG	08-Feb-17	EPA7471	

**Cardinal Laboratories** 

\*=Accredited Analyte

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Celeg D. Keens



J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240

Project: QUARTERLY SAMPLING

Reported: 10-Feb-17 12:38

Project Number: NONE GIVEN

Project Manager: JUDY ROBERTS

Fax To: NA

# **CELL#43** H700194-05 (Soil)

Analyte	Result	MDL _	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	7012709	AC	30-Jan-17	4500-CI-B	
Volatile Organic Compounds b	v EPA Method	8021				-				
Benzene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	73.6	-140	7013104	MS	31-Jan-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctane			74.6%	35-	147	7012704	MS	28-Jan-17	8015B	
Surrogate: I-Chlorooctadecane			76.3 %	28-	171	7012704	MS	28-Jan-17	8015B	

### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	90.4		%	1	B702040	BDV	06-Feb-17	EPA160.3/16 84	H2
Total Metals by ICP	· · · · · · · · · · · · · · · · · · ·		<u>.</u>						
Arsenic	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Barium	66.4	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Cadmium	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Chromium	8.23	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Lead	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Selenium	<20.0	20.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Silver	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	

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\*=Accredited Analyte

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Celeg D. Keene



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

# **Analytical Results For:**

J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN Project Manager: JUDY ROBERTS 10-Feb-17 12:38

. Fax To: NA

**CELL#43** 

H700194-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Lab	oratories					
Total Mercury by CVAA						,		,		
Mercury	<0.111		0.111	mg/kg dry	500	B702056	LLG	08-Feb-17	EPA7471	

Cardinal Laboratories

\*=Accredited Analyte

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Celley & Keens

Celey D. Keene, Lab Director/Quality Manager

Page 12 of 29



J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240 Project: QUARTERLY SAMPLING

ERLY SAMPLING

Project Number: NONE GIVEN
Project Manager: JUDY ROBERTS

Fax To: NA

Reported:

10-Feb-17 12:38

# CELL #44 H700194-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds				<u> </u>						
Chloride	<16.0		16.0	mg/kg	4	7012709	AC	30-Jan-17	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	<0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		102 %	73.6	-140	7013104	MS	31-Jan-17	8021B	
Petroleum Hydrocarbons by C	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
DRO >C10-C28	26.8		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctane			77.1 %	35-	147	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctadecane	•		80.5 %	28-	171	7012704	MS	28-Jan-17	8015B	

#### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	90.7		%	1	B702040	BDV	06-Feb-17	EPA160.3/16 84	H2
Total Metals by ICP									
Arsenic	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Barium	81.7	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Cadmium	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Chromium	8.26	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Lead	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Selenium	<20.0	20.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Silver	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	

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Celey & Kuna



# Analytical Results For:

J & L LANDFARM INC 8301 EUNICE HWY **HOBBS NM, 88240** 

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

CELL#44

H700194-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
Total Mercury by CVAA										
Mercury	<0.110		0.110	mg/kg dry	500	B702056	LLG	08-Feb-17	EPA7471	

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\*=Accredited Analyte

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J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

### **CELL #45** H700194-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborato	ries					
Inorganic Compounds						•				
Chloride	80.0		16.0	mg/kg	4	7012709	AC	30-Jan-17	4500-CI-B	_
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		103 %	73.6-1	40 '	7013104	MS	31-Jan-17	8021B	
Petroleum Hydrocarbons by G	GC FID		,		. :					
GRO C6-C10	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	.1	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctane			79.8 %	35-14	7	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctadecane			81.0 %	28-17	7	7012704	MS	28-Jan-17	8015B	

#### **Green Analytical Laboratories**

General Chemistry				,					
% Dry Solids	90.2		%	1	B702040	BDV	06-Feb-17	EPA160.3/16 84	H2
Total Metals by ICP									
Arsenic	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Barium	63.3	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Cadmium	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Chromium	7.84	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Lead	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Selenium	<20.0	20.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Silver	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	

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### Analytical Results For:

J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240 Project: QUARTERLY SAMPLING

Project Number: NONE GIVEN

Reported: 10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

# CELL#45

#### H700194-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
Total Mercury by CVAA										
Mercury	<0.111		0.111	mg/kg dry	500	B702056	LLG	08-Feb-17	EPA7471	

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J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240 Project: QUARTERLY SAMPLING

MONE CIVEN

Reported: 10-Feb-17 12:38

CE HWY Project Number

Project Number: NONE GIVEN
Project Manager: JUDY ROBERTS

Fax To: NA

## CELL#47 H700194-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds	······································									
Chloride	<16.0		16.0	mg/kg	4	7012709	AC	30-Jan-17	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Toluene*	< 0.050	*	0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	))		102 %	73.6	-140	7013104	MS	31-Jan-17	8021B	,
Petroleum Hydrocarbons by	GC FID								<u></u>	
GRO C6-C10	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctane			76.3 %	35-	147	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctadecane			76.8 %	28-	171	7012704	MS	28-Jan-17	8015B	

#### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	89.4		%	1	B702040	BDV	06-Feb-17	EPA160.3/16 84	H2
Total Metals by ICP								·	
Arsenic	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Barium	71.2	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Cadmium	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Chromium	7.60	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Lead	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	2.5
Selenium	<20.0	20.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Silver	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	

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# **Analytical Results For:**

J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

# **CELL#47**

H700194-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	alytical Labo	oratories			•		
Total Mercury by CVAA										
Mercury	< 0.112		0.112	mg/kg dry	500	B702056	LLG	08-Feb-17	EPA7471	

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J & L LANDFARM INC 8301 EUNICE HWY **HOBBS NM, 88240** 

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN Project Manager: JUDY ROBERTS 10-Feb-17 12:38

Fax To: NA

## CELL#49 H700194-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
·		*	Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	7012709	AC	30-Jan-17	4500-CI-B	
Volatile Organic Compounds b	y EPA Method	8021			·					
Benzene*	<0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7013104	MS	31-Jan-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.6	-140	7013104	MS	31-Jan-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctane			84.0 %	35-	147	7012704	MS	28-Jan-17	8015B	
Surrogate: 1-Chlorooctadecane	٠		87.0 %	28-	171	7012704	MS	28-Jan-17	8015B	

#### **Green Analytical Laboratories**

General Chemistry									
% Dry Solids	90.2		%	1	B702040	BDV	06-Feb-17	EPA160.3/16 84	H2
Total Metals by ICP									
Arsenic	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Barium	72.4	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Cadmium	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Chromium	8.07	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Lead	<10.0	10.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Selenium	<20.0	20.0	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	
Silver	<5.00	5.00	mg/kg dry	100	B702042	LLG	07-Feb-17	6010B	

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### **Analytical Results For:**

J & L LANDFARM INC 8301 EUNICE HWY **HOBBS NM, 88240** 

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

**CELL#49** 

H700194-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	/ Method	Notes
			Green Ana	ilytical Labo	oratories			<u>-</u>		
Total Mercury by CVAA										
Mercury	<0.111		0.111	mg/kg drv	500	B702056	LLG	08-Feb-17	EPA7471	

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# Analytical Results For:

**1 & L LANDFARM INC** 8301 EUNICE HWY **HOBBS NM, 88240** 

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

#### **Inorganic Compounds - Quality Control**

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7012709 - 1:4 DI Water	· · · · · · · · · · · · · · · · · · ·									
Blank (7012709-BLK1)				Prepared &	z Analyzed:	27-Jan-17				
Chloride	ND	16.0	mg/kg							
LCS (7012709-BS1)		*		Prepared &	Analyzed:	27-Jan-17				
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (7012709-BSD1)				Prepared &	z Analyzed:	27-Jan-17				
Chloride	432	16.0	mg/kg	400		108	80-120	3.64	20	

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including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of the services hereunder by Cardinal, regardless of the services hereunder by Cardinal, regardless of the services hereunder by Cardinal, regardless of the services hereunder by Cardinal, regardless of the services hereunder by Cardinal, regardless of the service

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J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240

Project: QUARTERLY SAMPLING

Project Number: NONE GIVEN

Reported: 10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

# Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7013003 - Volatiles	1									
Blank (7013003-BLK1)				Prepared &	Analyzed:	30-Jan-17				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500		104	73.6-140			
LCS (7013003-BS1)				Prepared &	Analyzed:	30-Jan-17				
Benzene	1.93	0.050	mg/kg	2.00		96.7	82.6-122			
Toluene	1.95	0.050	mg/kg	2.00		97.5	72. <del>9-</del> 122			
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	65.4-131			
Total Xylenes	5.70	0.150	mg/kg	6.00		95.1	73.8-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500	······································	104	73.6-140	- 4, - 4		
LCS Dup (7013003-BSD1)				Prepared &	Analyzed:	30-Jan-17				
Benzene	1.93	0.050	mg/kg	2.00		96.6	82.6-122	0.0680	8.23	
Toluene	1.95	0.050	mg/kg	2.00		97.4	72.9 <del>-</del> 122	0.0817	8.71	
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	65.4-131	0.340	9,46	
Total Xylenes	5.69	0.150	mg/kg	6.00		94.9	73.8-125	0.184	8.66	
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	73.6-140			····

#### Batch 7013104 - Volatiles

Blank (7013104-BLK1)				Prepared & Analy	yzed: 31-Jan-17	1	
Benzene	ND	0.050	mg/kg				
Toluene	ND	0.050	mg/kg				
Ethylbenzene	ND	0.050	mg/kg				
Total Xylenes	ND	0.150	mg/kg				
Total BTEX	ND	0.300	mg/kg				
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500	103	73.6-140	

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J & L LANDFARM INC 8301 EUNICE HWY **HOBBS NM, 88240** 

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN Project Manager: JUDY ROBERTS 10-Feb-17 12:38

Fax To: NA

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7013104 - Volatiles										
LCS (7013104-BS1)				Prepared &	: Analyzed:	31-Jan-17				
Benzene	1.75	0.050	mg/kg	2.00		87.3	82.6-122	· · · · · · · · · · · · · · · · · · ·		
Toluene	1.76	0.050	mg/kg	2.00		88.2	72.9-122			
Ethylbenzene	1.82	0.050	mg/kg	2.00		90.9	65.4-131			
Total Xylenes	5.18	0.150	mg/kg	6.00		86.3	73.8-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	73.6-140			
LCS Dup (7013104-BSD1)				Prepared &	Analyzed:	31-Jan-17				
Benzene	1.78	0.050	mg/kg	2.00		89.1	82.6-122	2.04	8.23	
Toluene	1.81	0.050	mg/kg	2.00		90.3	72.9-122	2.36	8.71	
Ethylbenzene	- 1.86	0.050	mg/kg	2.00		93.1	65.4-131	2.38	9.46	
Total Xylenes	5,29	0.150	mg/kg	6.00		88.1	73.8-125	2.16	8.66	
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	73.6-140			

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J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240 Project: QUARTERLY SAMPLING

Reported:

Project Nu

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

### Petroleum Hydrocarbons by GC FID - Quality Control

#### **Cardinal Laboratories**

,		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7012704 - General Prep - Organics						.=		-		
Blank (7012704-BLK1)				Prepared: 2	27-Jan-17 A	nalyzed: 2	8-Jan-17			
GRO C6-C10	ND	10.0	mg/kg				<del></del>			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.7		mg/kg	50.0		91.4	35-147			
Surrogate: 1-Chlorooctadecane	43.6		mg/kg	50.0		87.2	28-171			
LCS (7012704-BS1)		·		Prepared: 2	27-Jan-17 A	nalyzed: 2	8-Jan-17			
GRO C6-C10	192	10,0	mg/kg	200		96.1	76.7-115			
DRO >C10-C28	208	10.0	mg/kg	200		104	78.3-122			
Total TPH C6-C28	400	10.0	mg/kg	400		100	79.8-117			
Surrogate: 1-Chlorooctane	50.1		mg/kg	50.0		100	35-147			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	28-171			
LCS Dup (7012704-BSD1)				Prepared: 2	27-Jan-17 A	nalyzed: 2	8-Jan-17			
GRO C6-C10	192	10.0	mg/kg	200		96.2	76.7-115	0.0655	9.42	
DRO >C10-C28	214	10.0	mg/kg	200		107	78.3-122	2.56	13.2	
Total TPH C6-C28	406	10.0	mg/kg	400		102	79.8-117	1.37	10.7	
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	35-147			
Surrogate: 1-Chlorooctadecane	<i>54.5</i>		mg/kg	50.0		109	28-171			

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## Analytical Results For:

J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

#### **General Chemistry - Quality Control**

### **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch B702040 - General Prep - Wet Chem

Duplicate (B702040-DUP1)	Source: 17	02018-01	Prepared & Analyzed: 06-Feb-17			
% Dry Solids	63.7	%	70.5	10.1	20	

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Celey D. Keene, Lab Director/Quality Manager

Page 25 of 29



**J & L LANDFARM INC** 8301 EUNICE HWY HOBBS NM, 88240

Project: QUARTERLY SAMPLING

Reported:

Project Number: NONE GIVEN

10-Feb-17 12:38

Project Manager: JUDY ROBERTS

Fax To: NA

### Total Metals by ICP - Quality Control

#### **Green Analytical Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
					_					
Batch B702042 - EPA 3050										

Chromium   ND   0.050   mg/kg dry	Blank (B702042-BLK1)				Prepared & Ana	lyzed: 07-Feb-17				
ND   0.100   mg/kg dry	Arsenic	ND	0.100	mg/kg dry						
ND   0.050 mg/kg dry   Silver   ND   0.050 mg/kg dry   Silver   ND   0.050 mg/kg dry   Silver   ND   0.050 mg/kg dry   Silver   ND   0.050 mg/kg dry   Silver   ND   0.050 mg/kg dry   Silver   ND   0.200 mg/kg dry   Silver   Silver   Silver   ND   0.200 mg/kg dry   Silver   Chromium	ND	0.050	mg/kg dry							
ND   0.050   mg/kg dry   ND   0.050   mg/kg dry   ND   0.050   mg/kg dry   ND   0.050   mg/kg dry   ND   0.050   mg/kg dry   ND   0.050   mg/kg dry   ND   0.050   mg/kg dry   ND   0.050   mg/kg dry   0.00   0.00   0.000	Lead	ND	0.100	mg/kg dry						
ND   0.050 mg/kg dry   Chromium   ND   0.050 mg/kg dry   Chromium   ND   0.200 mg/kg dry   Chromium   ND   0.200 mg/kg dry   0.000 mg/kg	Barium	ND	0.050	mg/kg dry						
ND   0.200   mg/kg dry   2.00   96.4   85-115   85-115     85-115     85-115     85-115     85-115     85-115   85-115     85-115     85-115     85-115     85-115     85-115   85-115     85-115     85-115     85-115     85-115     85-115   85-115     85-115     85-115     85-115     85-115     85-115   85-115     85-115     85-115     85-115     85-115     85-115   85-115     85-115     85-115     85-115     85-115     85-115   85-115     85-115     85-115     85-115     85-115     85-115   85-115     85-115     85-115     85-115     85-115     85-115   85-115     85-115     85-115     85-115     85-115     85-115   85-115     85-115     85-115     85-115     85-115     85-115   85-115     85-115	Silver	ND	0.050	mg/kg dry	•					
Prepared & Analyzed: 07-Feb-17   Chromium   1.93   0.050   mg/kg dry   2.00   96.4   85-115   Arsenic   3.87   0.100   mg/kg dry   2.00   91.2   85-115   Cadmium   1.82   0.050   mg/kg dry   2.00   91.2   85-115   Selenium   1.97   0.050   mg/kg dry   2.00   98.6   85-115   Selenium   7.74   0.200   mg/kg dry   2.00   93.0   85-115   Selenium   1.86   0.100   mg/kg dry   2.00   93.0   85-115   Selenium   1.86   0.100   mg/kg dry   0.100   93.1   85-115   Selenium   1.82   0.050   mg/kg dry   0.100   93.1   85-115   Selenium   1.82   0.050   mg/kg dry   2.00   90.8   85-115   0.506   20   20   20   20   20   20   20	Cadmium	ND	0.050	mg/kg dry						
1.93   0.050   mg/kg dry   2.00   96.4   85-115	Selenium	ND	0.200	mg/kg dry						
Arsenic 3.87 0.100 mg/kg dry 4.00 96.6 85-115 Cadmium 1.82 0.050 mg/kg dry 2.00 91.2 85-115 Barium 1.97 0.050 mg/kg dry 2.00 98.6 85-115 Selenium 7.74 0.200 mg/kg dry 8.00 96.8 85-115 Cadmium 1.86 0.100 mg/kg dry 2.00 93.0 85-115 Silver 0.093 0.050 mg/kg dry 0.100 93.1 85-115 Cadmium 1.82 0.050 mg/kg dry 2.00 93.8 85-115 Cadmium 1.82 0.050 mg/kg dry 0.100 93.3 85-115 Cadmium 1.82 0.050 mg/kg dry 0.100 93.3 85-115 0.506 20 Cadmium 1.86 0.100 mg/kg dry 0.100 93.3 85-115 0.264 20 Cadmium 1.86 0.100 mg/kg dry 0.100 93.3 85-115 0.0411 20 Cadmium 1.93 0.050 mg/kg dry 2.00 96.4 85-115 0.0411 20 Chromium 1.93 0.050 mg/kg dry 2.00 96.6 85-115 0.0996 20 Chromium 1.93 0.050 mg/kg dry 2.00 96.6 85-115 0.0996 20 Chromium 1.97 0.050 mg/kg dry 2.00 98.6 85-115 0.0996 20 Chromium 1.97 0.050 mg/kg dry 2.00 98.6 85-115 0.0131 20	LCS (B702042-BS1)				Prepared & Ana	lyzed: 07-Feb-17				
Cadmium   1.82   0.050   mg/kg dry   2.00   91.2   85-115	Chromium	1.93	0.050	mg/kg dry	2.00	96.4	85-115		-	
Barium   1.97   0.050   mg/kg dry   2.00   98.6   85-115	Arsenic	3.87	0.100	mg/kg dry	4.00	96.6	85-115			
Selenium   7.74   0.200   mg/kg dry   8.00   96.8   85-115	Cadmium	1.82	0.050	mg/kg dry	2.00	91.2	85-115			
1.86	Barium	1.97	0.050	mg/kg dry	2.00	98.6	85-115			
Description   Description	Selenium	7.74	0.200	mg/kg dry	8.00	96.8	85-115			
Prepared & Analyzed: 07-Feb-17   Cadmium   1.82   0.050   mg/kg dry   2.00   90.8   85-115   0.506   20   20   20   20   20   20   20	Lead	1.86	0.100	mg/kg dry	2.00	93.0	85-115			
Cadmium         1.82         0.050 mg/kg dry         2.00         90.8         85-115         0.506         20           Silver         0.093         0.050 mg/kg dry         0.100         93.3         85-115         0.264         20           .ead         1.86         0.100 mg/kg dry         2.00         93.0         85-115         0.0411         20           Chromium         1.93         0.050 mg/kg dry         2.00         96.4         85-115         0.0828         20           Arsenic         3.86         0.100 mg/kg dry         4.00         96.6         85-115         0.0996         20           Barium         1.97         0.050 mg/kg dry         2.00         98.6         85-115         0.0131         20	Silver	0.093	0.050	mg/kg dry	0.100	93.1	<b>85-115</b>			
Silver     0.093     0.050 mg/kg dry     0.100     93.3     85-115     0.264     20       Lead     1.86     0.100 mg/kg dry     2.00     93.0     85-115     0.0411     20       Chromium     1.93     0.050 mg/kg dry     2.00     96.4     85-115     0.0828     20       Arsenic     3.86     0.100 mg/kg dry     4.00     96.6     85-115     0.0996     20       Barium     1.97     0.050 mg/kg dry     2.00     98.6     85-115     0.0131     20	LCS Dup (B702042-BSD1)		_		Prepared & Anal	lyzed: 07-Feb-17				
Lead     1.86     0.100 mg/kg dry     2.00     93.0     85-115     0.0411     20       Chromium     1.93     0.050 mg/kg dry     2.00     96.4     85-115     0.0828     20       Arsenic     3.86     0.100 mg/kg dry     4.00     96.6     85-115     0.0996     20       Barium     1.97     0.050 mg/kg dry     2.00     98.6     85-115     0.0131     20	Cadmium	1.82	0.050	mg/kg dry	2.00	90.8	85-115	0.506	20	
Chromium 1.93 0.050 mg/kg dry 2.00 96.4 85-115 0.0828 20 Arsenic 3.86 0.100 mg/kg dry 4.00 96.6 85-115 0.0996 20 Barium 1.97 0.050 mg/kg dry 2.00 98.6 85-115 0.0131 20	Silver	0.093	0.050	mg/kg dry	0.100	93.3	85-115	0.264	20	
Arsenic 3.86 0.100 mg/kg dry 4.00 96.6 85-115 0.0996 20 Sarium 1.97 0.050 mg/kg dry 2.00 98.6 85-115 0.0131 20	Lead	1.86	0.100	mg/kg dry	2.00	93.0	85-115	0.0411	20	
1.97 0.050 mg/kg dry 2.00 98.6 85-115 0.0131 20	Chromium	1.93	0.050	mg/kg dry	2.00	96.4	85-115	0.0828	20	
	Arsenic	3.86	0.100	mg/kg dry	4.00	96.6	85-115	0.0996	20	
Selenium 7.70 0.200 mg/kg dry 8.00 96.3 85-115 0.544 20	Barium	1.97	0.050	mg/kg dry	2.00	98.6	85-115	0.0131	20	
	Selenium	7.70	0.200	mg/kg dry	8.00	96.3	85-115	0.544	20	

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J & L LANDFARM INC 8301 EUNICE HWY HOBBS NM, 88240 Project: QUARTERLY SAMPLING

MPLING Reported: 10-Feb-17 12:38

Project Number: NONE GIVEN
Project Manager: JUDY ROBERTS

Fax To: NA

### **Total Mercury by CVAA - Quality Control**

#### **Green Analytical Laboratories**

1		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B702056 - EPA 245.1/7470		<del></del>						<del></del>		
Blank (B702056-BLK1)				Prepared &	Analyzed:	08-Feb-17				
Mercury	ND	0.0002	mg/kg wet							
LCS (B702056-BS1)				Prepared &	Analyzed:	08-Feb-17				
Mercury	0.0020	0,0002	mg/kg wet	0.00200		98.9	85-115			
LCS Dup (B702056-BSD1)				Prepared &	Analyzed:	08-Feb-17				
Mercury	0.0020	0.0002	mg/kg wet	0.00200		100	85-115	1.21	20	

**Cardinal Laboratories** 

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' exclusive remedy for any datin arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence are any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days efter completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, toss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether suckin 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 approved of Cardinal Laboratories.

Celey D. Keene



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#### **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 SM4500Cl-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

Sample analysis performed past hold time specified by the method.

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Celey D. Keine



# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(575) 393-232											 					
Company Name: 5 + L	andlarm			BIL	LETO:					AN	ALYSIS	S RE	QUE	ST		
Project Manager: Wich	elle Kuhn		P.O. #.			-				$\top$						
Address: P.D. Box			Compa	any:				- 1		1						
city: Hobbs	State: VM Zip: 2	88241	Attn:					- 1	- 1	i	1					1
Phone #: 575-390-74	16 Fax#:		Addre	68:			1	- 1	- 1							
Project #:	Project Owner:		City:	:				I		- }					L.	
Project Name:			State:				tate: Zip:				-		-			
Project Location:			Phone	Phone #:					٦,	- }						
Sampler Name: Mick	lle Kuh		Fax#:						U	1						
FOR LAB USE CMLY		MATRIX	PR	ESERV.	SAMPLI	NG		<u> </u>	B.	4						
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PLEASE NOTE: Liability and Damages. Castingly is	shiny and change exchange provide for any children arise	to whether based in contract	or tort sha	the Emilya	o the amount pai	d by the client fo	1700		1			<u></u>	<u> </u>	<u> </u>	<u> </u>	لبيا
analyses. All claims including those for registerior is service. In no event shall Cardinal be liable for incide	rd gray other cause wheteomer shafe be deemed waiv	red धार्थक्षण made in बरहेगध् कार	d received b	sk Cengural A	nthin 30 days afte	a completion of (	he explicable	<b>b</b>								
RelingVished By:	performance of services hereunder by Cardinal, rega	reless of whether such claim	is based up	on arry of the	above stated re	Phone Re	50.	☐ Yes	UN	o IAdo	"i Phone	#:			 	
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Reliaquished By:	Date: Recei	ved By:					em	س	٠ -	to 1697	_	,				
	Time:						•	dr	oh9	1697	6	101	. <b>CO</b>	<b>~</b>		
Delivered By: (Circle One		Sample Condit	ion	CHECK	ED BY:		•	٦,,								ļ
Sampler - UPS - Bus - Other: # 75 5.52 Cool Intact No No No No				<del></del>												

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (575) \$93-2326