

Bratcher, Mike, EMNRD

From: Cindy Crain [cindy.crain@gmail.com]
Sent: Tuesday, April 13, 2010 8:39 AM
To: Bratcher, Mike, EMNRD
Cc: Moss, Shannon
Subject: Devon Energy, Joell 6 #2 Battery Remediation - Request for Backfill Approval
Attachments: Field Drawing.doc; 4-5-10 Analyticals.pdf; 4-7-10 Analyticals.pdf; 4-9-10 Analyticals.pdf

Mike,

With regard to the Devon Energy, Joell 6 #2 Battery that we spoke about earlier today, the following information is attached for your review:

Field Drawing showing sample point locations

4/5/10 Analyticals - TPH and Cl concentrations from excavation

4/7/10 Analyticals - Background Cl concentrations

4/9/10 Analyticals - Deepest Cl concentrations

The site is located in Unit Letter G, Sec. 6, T23S, R27E, Eddy County, New Mexico.
Depth to groundwater is approximately 120 feet bgs.

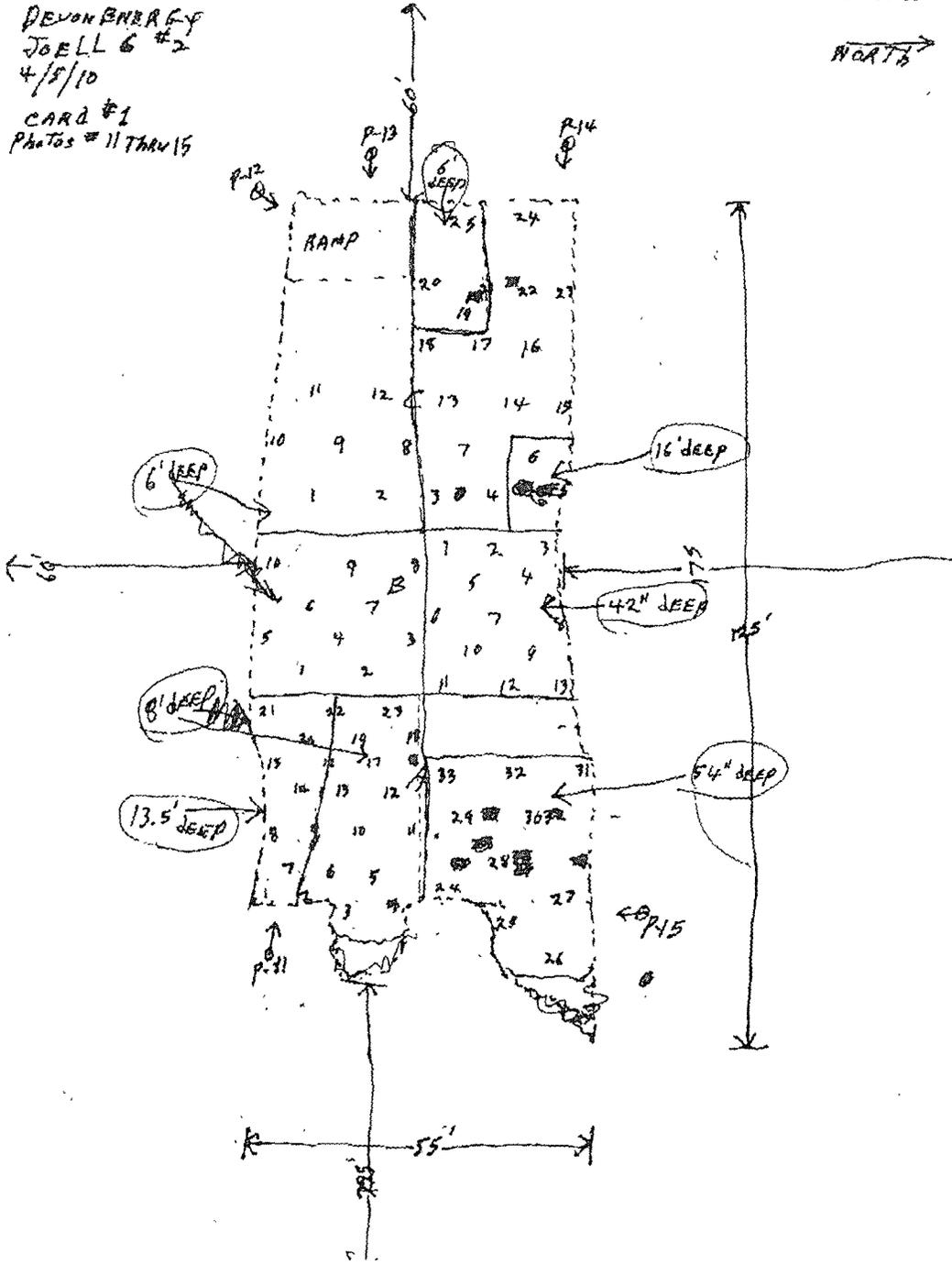
Ocotillo Environmental has equipment on site and is ready to begin backfilling of the excavation upon your approval to do so.

If you have any questions or need additional information, please let me know.

Thank you,
Cindy Crain

DEVON ENERGY
JOELL 6 #2
4/5/10
CARD #1
Photos # 11 Thru 15

NORTH →





ARDINAL LABORATORIES

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

April 7, 2010

Cindy Crain
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Re: Joell 6 #2

Enclosed are the results of analyses for sample number H19599, received by the laboratory on 04/05/10 at 3:10 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

Cardinal Laboratories is accredited 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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

ANALYTICAL RESULTS FOR
OCOTILLO ENVIRONMENTAL
ATTN: CINDY CRAIN
P.O. BOX 1816
HOBBS, NM 88241
FAX TO: (432) 272-0304

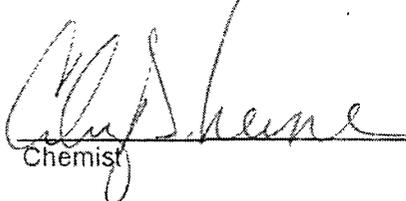
Receiving Date: 04/05/10	Sampling Date: 04/05/10
Reporting Date: 04/06/10	Sample Type: SOIL
Project Owner: NOT GIVEN	Sample Condition: COOL & INTACT @ 5°C
Project Name: JOELL 6 #2	Sample Received By: JH
Project Location: 3.2 MILES S. OF CARLSBAD, NM	Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	*Cl ⁻ (mg/kg)
ANALYSIS DATE		04/05/10	04/05/10	04/06/10
H19599-1	A-1-COMP.	<10.0	<10.0	496
H19599-2**	A-NW	<10.0	<10.0	448
H19599-3**	A-SW	<10.0	<10.0	672
H19599-4	B-1-COMP.	<10.0	<10.0	880
H19599-5**	B-NW	<10.0	<10.0	976
H19599-6	B-SW	<10.0	<10.0	656
H19599-7	C-1-COMP.	<10.0	<10.0	592
H19599-8	C-NW	<10.0	<10.0	448
H19599-9	C-SW	<10.0	<10.0	1,010
H19599-10	A-EW	<10.0	<10.0	416
H19599-11	C-WW	<10.0	<10.0	816
Quality Control		571	575	500
True Value QC		500	500	500
% Recovery		114	115	100
Relative Percent Difference		0.5	7.5	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl⁻: Std. Methods 4500-Cl⁻B

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

**One or more of the TPH surrogates outside historical limits due to matrix interference.


Chemist


Date

H19599 TCL OCO



CARDINAL LABORATORIES

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

Company Name: <u>DEVON ENERGY</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>CINDY CRAIN</u>		P.O. #:													
Address: <u>2125 FRENCH DRIVE P.O. Box 1816</u>		Company: <u>OCOTILLO</u>													
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:													
Phone #: <u>575-441-7244</u> Fax #:		Address:													
Project #:		City:													
Project Name: <u>JOELL 6 #2</u>		State: Zip:													
Project Location: <u>3.2 MILES SOUTH OF CARLSBAD, NM.</u>		Phone #:													
Sampler Name: <u>DON GREEN</u>		Fax #:													

FOR LAB USE ONLY		LABOR OR (COMP # CONTAINERS)	MATRIX				PRESERV	SAMPLING		DATE	TIME	REMARKS
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL			
H19599-1	A-1 - comp.	C 1								4/5/10	13:00	TPH 8015
-2	A-NW	C 1								"	"	CL
-3	A-SW	C 1								"	"	
-4	B-1 - comp.	C 1								"	"	
5	B-NW	C 1								"	"	
6	B-SW	C 1								"	"	
7	C-1 - comp.	C 1								"	"	
8	C-NW	C 1								"	"	
9	C-SW	C 1								"	"	
10	A-EW	C 1								"	"	

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Sampler Relinquished By: <u>Don Green</u>	Date: <u>4/5/10</u> Time: <u>15:10</u>	Received By:	Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By:	Date: <u>4/5/10</u> Time: <u>3:10</u>	Received By: <u>Jodi Hanson</u>	Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Temp. <u>50</u>	Sample Condition Cool/Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <u>JA</u> (initials)
REMARKS:			

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

#26



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

April 9, 2010

Cindy Crain
Devon Energy
P.O. Box 1816
Hobbs, NM 88241

Re: Joell 6 #2

Enclosed are the results of analyses for sample number H19614, received by the laboratory on 04/07/10 at 4:11 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

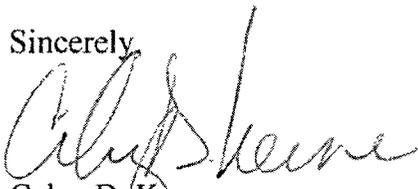
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,


Celey D. Keene
Laboratory Director



**ARDINAL
LABORATORIES**

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

April 12, 2010

Cindy Crain
Devon Energy
P.O. Box 1816
Hobbs, NM 88241

Re: Joell6 #2

Enclosed are the results of analyses for sample number H19624, received by the laboratory on 04/09/10 at 1:25 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

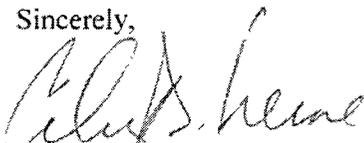
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,



Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: DEVON ENERGY			BILL TO		ANALYSIS REQUEST																				
Project Manager: CINDY CRAIN			P.O. #:																						
Address: 2125 FRENCH DRIVE, PO Box 1816			Company: OCOTILLO																						
City: Hobbs State: NM Zip: 88240			Attn:																						
Phone #: 432-441-7244 Fax #:			Address:																						
Project #: _____ Project Owner:			City:																						
Project Name: JOEL 6 #2			State: _____ Zip: _____																						
Project Location: 3.2 MILES SOUTH OF CARLSBAD, NM			Phone #:																						
Sampler Name: Don Green			Fax #:																						
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX				PRESERV.		SAMPLING														
				GIRAB OR (COMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME										
H191624-1		NW CORNER @ 16'		G			✓				✓			4/9/10	11:00										
		SE CORNER @ 12'		B			✓				✓			11	"										

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 the client for the 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 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.

Relinquished By: Don Green		Date: 4/9/10		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 13:25				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:	
				Jodi Henson			
Delivered By: (Circle One)		Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:		Cool Intact:		(Initials)			
		50. <input type="checkbox"/> Yes <input type="checkbox"/> No		JH			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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