



AE Order Number Banner

Report Description

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App Number: pGRL1130530051

1RP - 2715

MCDONNOLD OPERATING INC



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

June 09, 2011

HOBBS OCD

KEN ROGERS

MC DONNOLD OPERATING INC.

505 N. BIG SPRING, SUITE 204

MIDLAND, TX 79701

JUN 16 2011**RECEIVED**

RE: LANGLEY JACK WELL #14

Enclosed are the results of analyses for samples received by the laboratory on 06/03/11 16:10.

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 524.4	Regulated VOCs (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,

Caley D. Keene

Lab Director/Quality Manager



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

HOBBS OCD**Analytical Results For:**

MC DONNOLD OPERATING INC.
KEN ROGERS
505 N. BIG SPRING, SUITE 204
MIDLAND TX, 79701
Fax To: NONE

JUN 16 2011**RECEIVED**

Received: 06/03/2011
Reported: 06/09/2011
Project Name: LANGLEY JACK WELL #14
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 06/03/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: WEST OF TEST TANK (H101153-01)**BTEX 8021B****mg/kg****Analyzed By: CMS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2011	ND	2.16	108	2.00	2.46	
Toluene*	<0.050	0.050	06/06/2011	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	06/06/2011	ND	2.16	108	2.00	1.30	
Total Xylenes*	<0.150	0.150	06/06/2011	ND	6.32	105	6.00	1.15	

Surrogate: 4-Bromofluorobenzene (TIL) 94.7 % 70-130**Chloride, SM4500Cl-B****mg/kg****Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/06/2011	ND	448	112	400	3.64	

TPH 8015M**mg/kg****Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2011	ND	176	88.2	200	1.80	
DRO >C10-C28	<10.0	10.0	06/08/2011	ND	175	87.6	200	1.62	

Surrogate: 1-Chlorooctane 105 % 70-130*Surrogate: 1-Chlorooctadecane* 101 % 70-130

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC DONNOLD OPERATING INC.
KEN ROGERS
505 N. BIG SPRING, SUITE 204
MIDLAND TX, 79701
Fax To: NONE

Received: 06/03/2011
Reported: 06/09/2011
Project Name: LANGLEIE JACK WELL #14
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 06/03/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: N W OF WELL (H101153-02)

BTX 80218		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2011	ND	2.16	108	2.00	2.46	
Toluene*	<0.050	0.050	06/06/2011	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	06/06/2011	ND	2.16	108	2.00	1.30	
Total Xylenes*	<0.150	0.150	06/06/2011	ND	6.32	105	6.00	1.15	

Surrogate: 4-Bromofluorobenzene (PIL) 95.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	06/06/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2011	ND	176	88.2	200	1.80	
DRO >C10-C28	<10.0	10.0	06/08/2011	ND	175	87.6	200	1.62	

Surrogate: 1-Chlorooctane 133 % 70-130

Surrogate: 1-Chlorooctadecane 143 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC DONNOLD OPERATING INC.
KEN ROGERS
505 N. BIG SPRING, SUITE 204
MIDLAND TX, 79701
Fax To: NONE

Received: 06/03/2011
Reported: 06/09/2011
Project Name: LANGLIE JACK WELL #14
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 06/03/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: EAST OF TEST TANK (H101153-03)**BTEX 8021B**

mg/kg

Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2011	ND	2.07	104	2.00	2.80	
Toluene*	<0.050	0.050	06/08/2011	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	06/08/2011	ND	2.11	106	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/08/2011	ND	6.14	102	6.00	3.01	

Surrogate: 4-Bromofluorobenzene (PIL) 91.9 % 70-130

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/06/2011	ND	448	112	400	3.64	

TPH 8015M

mg/kg

Analyzed By: AB

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/08/2011	ND	176	89.2	200	1.80	
DRO >C10-C28	<50.0	50.0	06/08/2011	ND	175	87.6	200	1.62	

Surrogate: 1-Chlorooctane 111 % 70-130

Surrogate: 1-Chlorooctadecane 110 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC DONNOLD OPERATING INC.
KEN ROGERS
505 N. BIG SPRING, SUITE 204
MIDLAND TX, 79701
Fax To: NONE

Received: 06/03/2011
Reported: 06/09/2011
Project Name: LANGLEIE JACK WELL #14
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 06/03/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SOUTH OF WELL (H101153-04)

BTX A021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2011	ND	2.07	104	2.00	2.80	
Toluene*	<0.050	0.050	06/08/2011	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	06/08/2011	ND	2.11	106	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/08/2011	ND	6.14	102	6.00	3.01	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/06/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2011	ND	176	88.2	200	1.80	
DRO >C10-C28	<10.0	10.0	06/08/2011	ND	175	87.6	200	1.62	

Surrogate: 1-Chlorooctane 124 % 70-130

Surrogate: 1-Chlorooctadecane 135 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MC DONNOLD OPERATING INC.
KEN ROGERS
505 N. BIG SPRING, SUITE 204
MIDLAND TX, 79701
Fax To: NONE

Received: 06/03/2011
Reported: 06/09/2011
Project Name: LANGLEIE JACK WELL #14
Project Number: NONE GIVEN
Project Location: JAL, NM

Sampling Date: 06/03/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: N E 20' FROM WELL (H101153-05)

BTX 80218		mg/kg	Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Q dilution
Benzene*	<0.050	0.050	06/08/2011	ND	2.07	104	2.00	2.80	
Toluene*	<0.050	0.050	06/08/2011	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	06/08/2011	ND	2.11	106	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/08/2011	ND	6.14	102	6.00	3.01	

Surrogate: 4-Bromofluorobenzene (PIL) 98.7 % 70-130

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Q dilution
Chloride	624	16.0	06/06/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Q dilution
GRO C6-C10	<10.0	10.0	06/08/2011	ND	174	87.0	200	0.978	
DRO >C10-C28	<10.0	10.0	06/08/2011	ND	186	93.2	200	1.05	

Surrogate: 1-Chlorooctane 107 % 70-130

Surrogate: 1-Chlorooctadecane 117 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- Z-01 One or more surrogates above historical limits.
- 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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2328 FAX (575) 393-2476

Company Name: <u>McDonnold Operating Inc.</u>		BILL TO		ANALYSIS REQUEST									
Project Manager: <u>Ken Rogers</u>		P.O. #:											
Address: <u>505 N. Big Spring Suite 201</u>		Company:											
City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701-4847</u>		Address:											
Phone #: <u>432-682-3488</u>		City:											
Project #: _____ Project Owner: _____		State: _____ Zip: _____											
Project Name: <u>Largie Jack Well # 14</u>		Phone #: _____											
Project Location: <u>20' NW</u>		Fax #: _____											
Sampler Name: <u>Albert Sanchez</u>													
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	CONTAINERS	MATRIX	PRESERV	SAMPLING							
				GROUNDWATER									
				WASTEWATER									
				SOIL									
				OIL									
				SLUDGE									
				OTHER:									
				ACID/BASE:									
				ICE / COOL									
				OTHER:									
					DATE	TIME							
<u>H101153</u>													
	<u>1 West of Test Tank</u>	<u>G</u>	<u>1</u>										
	<u>2 NW of Well</u>	<u>G</u>	<u>1</u>										
	<u>3 East of Test Tank</u>	<u>G</u>	<u>1</u>										
	<u>4 South of Well</u>												
	<u>5 NE 20' from well</u>												
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. No one shall hold Cardinal liable for incidental or consequential damages, including indirect damages, business interruptions, loss of time, or loss of profits incurred by client, its subsidiaries or affiliates or successors arising out of or related to the performance of services furnished by Cardinal, regardless of whether such claims are based upon any of the above stated reasons or otherwise.													
Relinquished By: <u>Albert Sanchez</u>		Date: <u>6/3/11</u>		Received By: <u>Jodi Benson</u>		Phone Result: ☐ Yes ☐ No (Add'l Phone #)							
Relinquished By: _____		Date: _____		Received By: _____		Fax Result: ☐ Yes ☐ No (Add'l Fax #)							
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		REMARKS: <u>call 575-390-11692 & he will</u> <u>P/U. since taken & brought directly to</u> <u>lab.</u>							
Sampler - UPS - Bus - Other:		☐ Yes ☐ No ☐ Yes ☐ No		☐ Yes ☐ No ☐ Yes ☐ No									

* Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478