



# CONOCOPHILLIPS

P.O. Box 2197  
Houston, TX 77252-2197  
Phone 281.293.1000

## MCA 1A Header

1RP-3231

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# Corrective Action Plan

API No. 30-025-06115

Release Date: March 14<sup>th</sup>, 2012

Unit Letter G, Section 30, Township 17S, Range 32E

**August 13<sup>th</sup>, 2014**

**Dr. Tomáš Oberding, PhD**

Environmental Specialist – New Mexico Oil Conservation Division  
Energy, Minerals and Natural Resources Department  
1625 N. French Dr.  
Hobbs, NM 88240

**RE: Corrective Action Plan  
ConocoPhillips MCA 1A Header (1RP-3231)  
UL/G sec. 30 T17S R32E  
API No. 30-025-06115**

Dr. Oberding:

ConocoPhillips (CoP) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

**Background and Previous Work**

The site is located approximately 4.1 miles southwest of Maljamar, New Mexico at UL/G sec. 30 T17S R32E. NM OSE and USGS records indicate that groundwater will likely be encountered at a depth of approximately 95 – 105 +/- feet.

On March 14<sup>th</sup>, 2012, CoP discovered a release from a 6 inch transit production line. The line failed at the collar and released a total of 47 barrels of oil and produced water over approximately 4,476 square feet of pasture land. None of this fluid was recovered. NMOCD and BLM were notified of the release on March 14<sup>th</sup>, 2012, and an initial C-141 was sent to NMOCD for their approval (Appendix A).

Prior to RECS receiving the site from CoP, another company conducted sampling activities at the site. On June 6<sup>th</sup>, 2012, that company's personnel were on site to hand augur the release area (Figure 1). Two points within the release area were augured for depth, and all samples were taken to a commercial laboratory for analysis (Appendix B). On October 17<sup>th</sup>, 2012, two soil bores (SS-1 and SS-2) were installed to further delineate the vertical extent of contamination. All samples from both bores were taken to a commercial laboratory for analysis. The laboratory analysis of SS-1 returned chloride values below regulatory standards beginning at 15 ft bgs. Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings returned values below regulatory standards at all depths. The laboratory analysis of SS-2 returned chloride values below regulatory standards beginning at 25 ft bgs. GRO, DRO and BTEX readings returned values below regulatory standards at all depths.

RECS received the site from CoP on October 31<sup>st</sup>, 2013 to continue remediation activities. On February 12<sup>th</sup>, 2014, a meeting was held with NMOCD and the initial sampling data was submitted for approval. NMOCD stated that the data for SS-1 was acceptable, but SS-2 had not achieved an acceptable decline in constituents. Therefore, NMOCD requested an additional soil bore be installed adjacent to SS-2.

RECS personnel were on site to conduct the additional soil bore on June 18<sup>th</sup>, 2014. SB-2 was installed adjacent to SS-2 to continue sampling activities with depth. The bore was sampled for lithology until 50 ft bgs and then soil samples were taken every 5 ft for field analysis (Appendix C). Representative samples from SB-2 were taken to a commercial laboratory for analysis (Appendix B). At 75 ft bgs, the laboratory chloride reading returned a value of 352 mg/kg, the DRO reading returned a value of 236 mg/kg, and the GRO and BTEX readings returned values of non-detect. Photo documentation from SB-2 can be found in Appendix D.

### **Corrective Action Plan**

Based on the laboratory analysis of the site, the release area will be excavated to a depth of 4 ft bgs. At the base of excavation, a 20-mil reinforced poly liner will be installed and properly seated.

The excavated soil will be evaluated for use as backfill, and any soils that do not meet regulatory standards will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to replace any soils taken for disposal. The clean soil will be blended with the remaining excavated soil and used to backfill the site. A sample of the blended soil will be taken to a commercial laboratory to confirm that chloride, GRO and DRO readings are all below regulatory standards. Once the site is backfilled, the area will be contoured to the surrounding location. The site will then be seeded with a blend of native vegetation.

Once these activities have been completed, a report will be submitted to NMOCD and BLM requesting 'remediation termination' and site closure.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Lara Weinheimer', with a stylized flourish at the end.

Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data

Appendix A – Initial C-141

Appendix B – Initial Sampling Labs

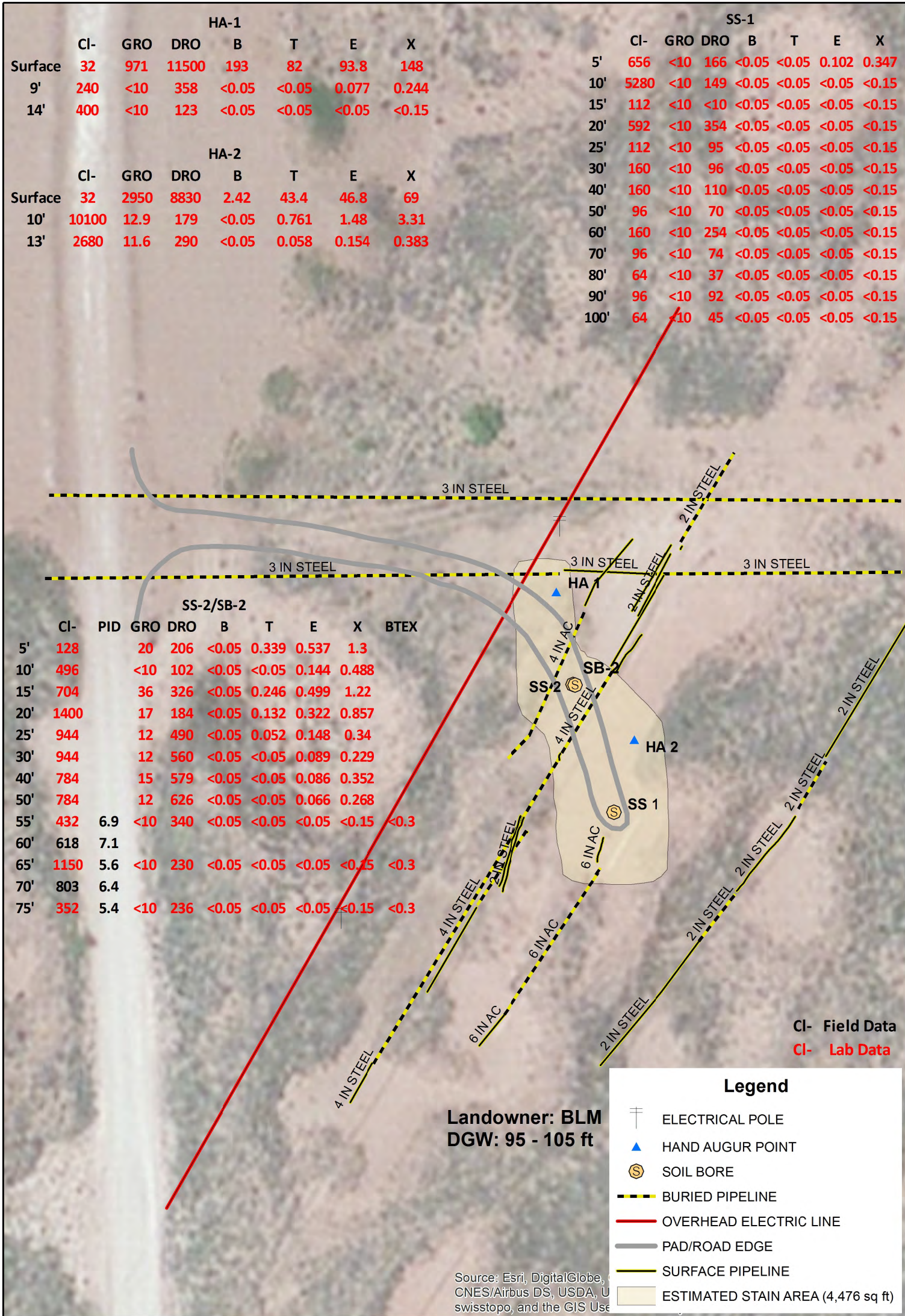
Appendix C – Soil Bore Log

Appendix D – Photo Documentation

# Figures



Initial Sampling Data



# Appendix A

Initial C-141



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	ConocoPhillips Company	Contact	John W. Gates
Address	3300 North A St. Bldg 6, Midland, TX 79705-5406	Telephone No.	505.391.3158
Facility Name	MCA 1A Header	Facility Type	Oil and Gas
Surface Owner	Federal	Mineral Owner	Federal
		Lease No	LC 029410B

LOCATION OF RELEASE

Unit Letter	Section 30	Township 17	Range 32	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude N32 48.387 Longitude W 103 48.200

NATURE OF RELEASE

Type of Release Crude Oil & Produced Water	Volume of Release 47bbl (17oil, 30water)	Volume Recovered (0oil, 0water)
Source of Release 1A Header production line(6" transite)	Date and Hour of Occurrence 3/14/12 1403	Date and Hour of Discovery 3/14/2012 1530
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD & BLM Were notified	
By Whom? Justin Wright	Date and Hour 3/14/12	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

A 6 inch transite production line at the MCA 1 A Header failed at the collar due to suspected age/fatigue

Describe Area Affected and Cleanup Action Taken.\*

A 25' X 85' X 24" deep area of pastureland located ~350 yards north and east of the 1A header. No fluids could be recovered. The spill site will be Delineated/Remediated in accordance with BLM & NMOCD guidelines

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>John W. Gates</i>	OIL CONSERVATION DIVISION	
Printed Name: John W. Gates	Approved by District Supervisor:	
Title: HSER Lead	Approval Date:	Expiration Date:
E-mail Address: John.W.Gates@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3/19/12 Phone: 505.391.3158		

- Attach Additional Sheets If Necessary



# Appendix B

## Initial Sampling Labs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

June 14, 2012

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: MCA IA TRUNKLINE

Enclosed are the results of analyses for samples received by the laboratory on 06/08/12 10:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

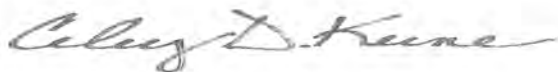
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Caley D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 06/08/2012  
Reported: 06/14/2012  
Project Name: MCA IA TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 06/06/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: HA 1 SURFACE (H201294-01)**

BTX 8021B		mg/kg	Analyzed By: ZZZ					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.93	1.00	06/13/2012	ND	2.10	105	2.00	4.88	
Toluene*	82.0	1.00	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	93.8	1.00	06/13/2012	ND	2.21	111	2.00	1.77	
Total Xylenes*	148	3.00	06/13/2012	ND	6.86	114	6.00	0.457	

Surrogate: 4-Bromofluorobenzene (PIL) 168 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/12/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	971	100	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	11500	100	06/12/2012	ND	172	86.2	200	7.49	

Surrogate: 1-Chlorooctane 210 % 65.2-140

Surrogate: 1-Chlorooctadecane 405 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 06/08/2012  
Reported: 06/14/2012  
Project Name: MCA IA TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 06/06/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: HA 1 9' BGS (H201294-02)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2012	ND	2.10	105	2.00	4.88	
Toluene*	<0.050	0.050	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	<b>0.077</b>	0.050	06/13/2012	ND	2.21	111	2.00	1.77	
Total Xylenes*	<b>0.224</b>	0.150	06/13/2012	ND	6.86	114	6.00	0.457	

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>240</b>	16.0	06/12/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	<b>358</b>	10.0	06/12/2012	ND	172	86.2	200	7.49	

Surrogate: 1-Chlorooctane 95.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

 Received: 06/08/2012  
 Reported: 06/14/2012  
 Project Name: MCA IA TRUNKLINE  
 Project Number: NONE GIVEN  
 Project Location: MALJAMAR, NEW MEXICO

 Sampling Date: 06/06/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: HA 1 14' BGS (H201294-03)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2012	ND	2.10	105	2.00	4.88	
Toluene*	<0.050	0.050	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	<0.050	0.050	06/13/2012	ND	2.21	111	2.00	1.77	
Total Xylenes*	<0.150	0.150	06/13/2012	ND	6.86	114	6.00	0.457	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/12/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	123	10.0	06/12/2012	ND	172	86.2	200	7.49	

Surrogate: 1-Chlorooctane 94.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 06/08/2012  
Reported: 06/14/2012  
Project Name: MCA IA TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 06/06/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: HA 2 SURFACE (H201294-04)**

BTX 8021B		mg/kg	Analyzed By: ZZZ					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.42	0.500	06/13/2012	ND	2.10	105	2.00	4.88	
Toluene*	43.4	0.500	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	46.8	0.500	06/13/2012	ND	2.21	111	2.00	1.77	
Total Xylenes*	69.0	1.50	06/13/2012	ND	6.86	114	6.00	0.457	

Surrogate: 4-Bromofluorobenzene (PIL) 178 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/12/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2950	100	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	8830	100	06/12/2012	ND	172	86.2	200	7.49	

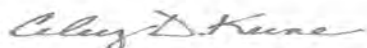
Surrogate: 1-Chlorooctane 269 % 65.2-140

Surrogate: 1-Chlorooctadecane 281 % 63.6-154

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\*=Accredited Analyte

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JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 06/08/2012  
Reported: 06/14/2012  
Project Name: MCA IA TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 06/06/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: HA 2 10' BGS (H201294-05)**
**BTEX 8021B**
**mg/kg**
**Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	06/13/2012	ND	2.10	105	2.00	4.88	
Toluene*	<b>0.761</b>	0.500	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	<b>1.48</b>	0.500	06/13/2012	ND	2.21	111	2.00	1.77	
Total Xylenes*	<b>3.31</b>	1.50	06/13/2012	ND	6.86	114	6.00	0.457	

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 89.4-126

**Chloride, SM4500Cl-B**
**mg/kg**
**Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>10100</b>	16.0	06/12/2012	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>12.9</b>	10.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	<b>179</b>	10.0	06/12/2012	ND	172	86.2	200	7.49	

Surrogate: 1-Chlorooctane 93.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 06/08/2012  
Reported: 06/14/2012  
Project Name: MCA IA TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 06/06/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: HA 2 13' BGS (H201294-06)**

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2012	ND	2.10	105	2.00	4.88	
Toluene*	<b>0.058</b>	0.050	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	<b>0.154</b>	0.050	06/13/2012	ND	2.21	111	2.00	1.77	
Total Xylenes*	<b>0.383</b>	0.150	06/13/2012	ND	6.86	114	6.00	0.457	

Surrogate: 4-Bromofluorobenzene (PIL) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>2680</b>	16.0	06/12/2012	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>11.6</b>	10.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	<b>290</b>	10.0	06/12/2012	ND	172	86.2	200	7.49	

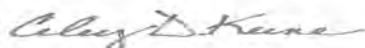
Surrogate: 1-Chlorooctane 90.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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



Celest D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

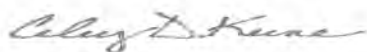
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED 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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Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>					
<b>Project Manager:</b>	Diamond back disposal Justin Roberts	P.O. #:							
<b>Address:</b>	P.O. Box 2491	<b>Company:</b>							
<b>City:</b>	Hobbs State: NM Zip: 88240	<b>Attn:</b>							
<b>Phone #:</b>	575-392-9999 Fax #: 575-392-9374	<b>Address:</b>							
<b>Project #:</b>	N/A Project Owner: COPC	<b>City:</b>							
<b>Project Name:</b>	MCA IA Trunkline	<b>State:</b>	<b>Zip:</b>						
<b>Project Location:</b>	Maldenham	<b>Phone #:</b>							
<b>Sampler Name:</b>	Justin Roberts	<b>Fax #:</b>							

FOR LAB USE ONLY		GIRAB OR (COMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING		DATE	TIME	TPH	BTEX	CI						
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :											
H201294																							
1	HA 1 SURFACE	G	X											6-6-12	11:40	x	x	x					
2	HA 2 9' BGS	G	x												12:01	x	x	x					
3	HA 2 14' BGS	G	x												12:22	x	x	x					
4	HA 2 SURFACE	G	x												12:26	x	x	x					
5	HA 2 10' BGS	G	x											U	12:47	x	x	x					
6	HA 2 13' BGS	G	y												1:07	x	x	x					

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<b>Relinquished By:</b> <i>[Signature]</i>		Date: Time:	<b>Received By:</b> <i>[Signature]</i>		Date: Time:	
<b>Reinquired By:</b>		Date:	<b>Received By:</b>		Date:	

<b>Delivered By: (Circle One)</b>	<b>Sample Condition</b>	<b>CHECKED BY:</b>
Sampler - UPS - Bus - Other:	Cool Intact Yes No	(Initials) <i>[Signature]</i>

**Phone Result:** ☐ Yes ☒ No  
**Fax Result:** ☐ Yes ☒ No  
**Add'l Phone #:** \_\_\_\_\_  
**Add'l Fax #:** \_\_\_\_\_  
**REMARKS:** \_\_\_\_\_



October 31, 2012

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: MCA 1A TRUNKLINE

Enclosed are the results of analyses for samples received by the laboratory on 10/17/12 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 5' BGS (H202535-01)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7	
Toluene*	<0.050	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	0.102	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	0.347	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/18/2012	ND	192	95.9	200	5.10		
DRO >C10-C28	166	10.0	10/18/2012	ND	189	94.7	200	8.47		

Surrogate: 1-Chlorooctane 80.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.0 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 10' BGS (H202535-02)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7	
Toluene*	<0.050	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	<0.050	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	<0.150	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2012	ND	192	95.9	200	5.10	
DRO >C10-C28	149	10.0	10/18/2012	ND	189	94.7	200	8.47	

Surrogate: 1-Chlorooctane 79.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.5 % 63.6-154

**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 15' BGS (H202535-03)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7	
Toluene*	<0.050	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	<0.050	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	<0.150	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2012	ND	192	95.9	200	5.10	
DRO >C10-C28	<10.0	10.0	10/18/2012	ND	189	94.7	200	8.47	

Surrogate: 1-Chlorooctane 74.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.4 % 63.6-154

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\*= Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 20' BGS (H202535-04)**

BTX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7	
Toluene*	<0.050	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	<0.050	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	<0.150	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2012	ND	192	95.9	200	5.10	
DRO >C10-C28	354	10.0	10/18/2012	ND	189	94.7	200	8.47	

Surrogate: 1-Chlorooctane 82.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 25' BGS (H202535-05)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7		
Toluene*	<0.050	0.050	10/18/2012	ND	2.04	102	2.00	4.75		
Ethylbenzene*	<0.050	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19		
Total Xylenes*	<0.150	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9		

Surrogate: 4-Bromofluorobenzene (PIL) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2012	ND	192	95.9	200	5.10	
DRO >C10-C28	95.1	10.0	10/18/2012	ND	189	94.7	200	8.47	

Surrogate: 1-Chlorooctane 78.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.1 % 63.6-154

**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

 Received: 10/17/2012  
 Reported: 10/31/2012  
 Project Name: MCA 1A TRUNKLINE  
 Project Number: NONE GIVEN  
 Project Location: MALJAMAR, NEW MEXICO

 Sampling Date: 10/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS 1 - 30' BGS (H202535-06)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2012	ND	2.25	113	2.00	16.1	
Toluene*	<0.050	0.050	10/30/2012	ND	2.49	124	2.00	17.3	
Ethylbenzene*	<0.050	0.050	10/30/2012	ND	2.48	124	2.00	17.4	
Total Xylenes*	<0.150	0.150	10/30/2012	ND	7.46	124	6.00	17.3	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2012	ND	192	95.9	200	5.10	
DRO >C10-C28	95.6	10.0	10/18/2012	ND	189	94.7	200	8.47	

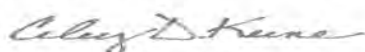
Surrogate: 1-Chlorooctane 73.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 40' BGS (H202535-07)**

BTEX 80218		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2012	ND	2.25	113	2.00	16.1	
Toluene*	<0.050	0.050	10/30/2012	ND	2.49	124	2.00	17.3	
Ethylbenzene*	<0.050	0.050	10/30/2012	ND	2.48	124	2.00	17.4	
Total Xylenes*	<0.150	0.150	10/30/2012	ND	7.46	124	6.00	17.3	

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	110	10.0	10/19/2012	ND	176	87.9	200	0.0370	

Surrogate: 1-Chlorooctane 72.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 50' BGS (H202535-08)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2012	ND	2.25	113	2.00	16.1	
Toluene*	<0.050	0.050	10/30/2012	ND	2.49	124	2.00	17.3	
Ethylbenzene*	<0.050	0.050	10/30/2012	ND	2.48	124	2.00	17.4	
Total Xylenes*	<0.150	0.150	10/30/2012	ND	7.46	124	6.00	17.3	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/24/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	69.8	10.0	10/19/2012	ND	176	87.9	200	0.0370	

Surrogate: 1-Chlorooctane 74.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

 Received: 10/17/2012  
 Reported: 10/31/2012  
 Project Name: MCA 1A TRUNKLINE  
 Project Number: NONE GIVEN  
 Project Location: MALJAMAR, NEW MEXICO

 Sampling Date: 10/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS 1 - 60' BGS (H202535-09)**

BTEX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2012	ND	2.25	113	2.00	16.1	
Toluene*	<0.050	0.050	10/30/2012	ND	2.49	124	2.00	17.3	
Ethylbenzene*	<0.050	0.050	10/30/2012	ND	2.48	124	2.00	17.4	
Total Xylenes*	<0.150	0.150	10/30/2012	ND	7.46	124	6.00	17.3	

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/24/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	254	10.0	10/19/2012	ND	176	87.9	200	0.0370	

Surrogate: 1-Chlorooctane 78.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 70' BGS (H202535-10)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2012	ND	2.25	113	2.00	16.1	
Toluene*	<0.050	0.050	10/30/2012	ND	2.49	124	2.00	17.3	
Ethylbenzene*	<0.050	0.050	10/30/2012	ND	2.48	124	2.00	17.4	
Total Xylenes*	<0.150	0.150	10/30/2012	ND	7.46	124	6.00	17.3	

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/24/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	74.4	10.0	10/19/2012	ND	176	87.9	200	0.0370	

Surrogate: 1-Chlorooctane 81.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 80' BGS (H202535-11)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2012	ND	2.25	113	2.00	16.1	
Toluene*	<0.050	0.050	10/30/2012	ND	2.49	124	2.00	17.3	
Ethylbenzene*	<0.050	0.050	10/30/2012	ND	2.48	124	2.00	17.4	
Total Xylenes*	<0.150	0.150	10/30/2012	ND	7.46	124	6.00	17.3	

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 89.4-126

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	10/24/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	37.0	10.0	10/19/2012	ND	176	87.9	200	0.0370	

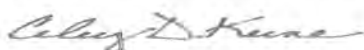
Surrogate: 1-Chlorooctane 83.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 90' BGS (H202535-12)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2012	ND	2.25	113	2.00	16.1	
Toluene*	<0.050	0.050	10/30/2012	ND	2.49	124	2.00	17.3	
Ethylbenzene*	<0.050	0.050	10/30/2012	ND	2.48	124	2.00	17.4	
Total Xylenes*	<0.150	0.150	10/30/2012	ND	7.46	124	6.00	17.3	

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/24/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	92.0	10.0	10/19/2012	ND	176	87.9	200	0.0370	

Surrogate: 1-Chlorooctane 75.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 1 - 100' BGS (H202535-13)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2012	ND	2.25	113	2.00	16.1	
Toluene*	<0.050	0.050	10/30/2012	ND	2.49	124	2.00	17.3	
Ethylbenzene*	<0.050	0.050	10/30/2012	ND	2.48	124	2.00	17.4	
Total Xylenes*	<0.150	0.150	10/30/2012	ND	7.46	124	6.00	17.3	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

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	10/24/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	44.7	10.0	10/19/2012	ND	176	87.9	200	0.0370	

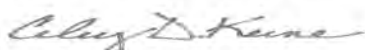
Surrogate: 1-Chlorooctane 76.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 2 - 5' BGS (H202535-14)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7	
Toluene*	0.339	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	0.537	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	1.30	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIC) 136 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.8	10.0	10/18/2012	ND	192	95.9	200	5.10	
DRO >C10-C28	206	10.0	10/18/2012	ND	189	94.7	200	8.47	

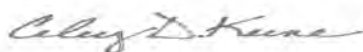
Surrogate: 1-Chlorooctane 78.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 2 - 10' BGS (H202535-15)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7	
Toluene*	<0.050	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	<b>0.144</b>	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	<b>0.488</b>	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIL) 129 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>496</b>	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2012	ND	192	95.9	200	5.10	
DRO >C10-C28	<b>102</b>	10.0	10/18/2012	ND	189	94.7	200	8.47	

Surrogate: 1-Chlorooctane 77.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

 Received: 10/17/2012  
 Reported: 10/31/2012  
 Project Name: MCA 1A TRUNKLINE  
 Project Number: NONE GIVEN  
 Project Location: MALJAMAR, NEW MEXICO

 Sampling Date: 10/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS 2 - 15' BGS (H202535-16)**

BTX 8021B		mg/kg	Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7	
Toluene*	0.246	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	0.499	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	1.22	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIL) 135 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	35.6	10.0	10/18/2012	ND	192	95.9	200	5.10	
DRO >C10-C28	326	10.0	10/18/2012	ND	189	94.7	200	8.47	

Surrogate: 1-Chlorooctane 83.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 2 - 20' BGS (H202535-17)**

BTEX 80218	mg/kg	Analyzed By: AP						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7	
Toluene*	<b>0.132</b>	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	<b>0.332</b>	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	<b>0.857</b>	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIL) 136 % 89.4-126

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>1400</b>	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>17.0</b>	10.0	10/18/2012	ND	192	95.9	200	5.10	
DRO >C10-C28	<b>184</b>	10.0	10/18/2012	ND	189	94.7	200	8.47	


Surrogate: 1-Chlorooctane 82.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.6 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 2 - 25' BGS (H202535-18)**
**BTEX 80218**
**mg/kg**
**Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7	
Toluene*	<b>0.052</b>	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	<b>0.148</b>	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	<b>0.340</b>	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 89.4-126

**Chloride, SM4500Cl-B**
**mg/kg**
**Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>944</b>	16.0	10/23/2012	ND	400	100	400	3.92	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>12.0</b>	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	<b>490</b>	10.0	10/19/2012	ND	176	87.9	200	0.0370	

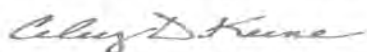
Surrogate: 1-Chlorooctane 75.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.8 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 2 - 30' BGS (H202535-19)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	ND	2.09	104	2.00	11.7	
Toluene*	<0.050	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	0.089	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	0.229	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	10/23/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.1	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	560	10.0	10/19/2012	ND	176	87.9	200	0.0370	

Surrogate: 1-Chlorooctane 79.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

 Received: 10/17/2012  
 Reported: 10/31/2012  
 Project Name: MCA 1A TRUNKLINE  
 Project Number: NONE GIVEN  
 Project Location: MALJAMAR, NEW MEXICO

 Sampling Date: 10/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SS 2 - 40' BGS (H202535-20)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2012	ND	1.98	99.0	2.00	2.23	
Toluene*	<0.050	0.050	10/22/2012	ND	2.15	108	2.00	2.85	
Ethylbenzene*	<b>0.086</b>	0.050	10/22/2012	ND	2.16	108	2.00	2.30	
Total Xylenes*	<b>0.352</b>	0.150	10/22/2012	ND	6.54	109	6.00	2.75	

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>784</b>	16.0	10/24/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>15.2</b>	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	<b>579</b>	10.0	10/19/2012	ND	176	87.9	200	0.0370	

Surrogate: 1-Chlorooctane 83.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.9 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 10/17/2012  
Reported: 10/31/2012  
Project Name: MCA 1A TRUNKLINE  
Project Number: NONE GIVEN  
Project Location: MALJAMAR, NEW MEXICO

Sampling Date: 10/16/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SS 2 - 50' BGS (H202535-21)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2012	ND	1.98	99.0	2.00	2.23	
Toluene*	<0.050	0.050	10/22/2012	ND	2.15	108	2.00	2.85	
Ethylbenzene*	<b>0.066</b>	0.050	10/22/2012	ND	2.16	108	2.00	2.30	
Total Xylenes*	<b>0.268</b>	0.150	10/22/2012	ND	6.54	109	6.00	2.75	

Surrogate: 4-Bromofluorobenzene (PIC) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>784</b>	16.0	10/24/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>12.0</b>	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	<b>626</b>	10.0	10/19/2012	ND	176	87.9	200	0.0370	

Surrogate: 1-Chlorooctane 77.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Diamondback Disposal Sav. Inc</b> Project Manager: <b>Justin Roberts</b> Address: <b>P.O. Box 2491</b> City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88241</b> Phone #: <b>575-342-9996</b> Fax #: <b>575-342-9376</b> Project #: <b>N/A</b> Project Owner: <b>COPL</b> Project Name: <b>MCA 2A Trunkline</b> Project Location: <b>Mahammar</b> Sampler Name: <b>Justin Roberts</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																											
P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:																																			
<b>FOR LAB USE ONLY</b>				<b>MATRIX</b>				<b>PRESERV</b>				<b>SAMPLING</b>				<b>TPH</b> <b>BTEX</b> <b>CI</b>																			
<b>Lab I.D.</b>				<b>Sample I.D.</b>				<b>GROUNDWATER</b> <b>WASTEWATER</b> <b>SOIL</b> <b>OIL</b> <b>SILUDGE</b> <b>OTHER</b>				<b>ACID/BASE</b> <b>ICE / COOL</b> <b>OTHER</b>				<b>DATE</b>				<b>TIME</b>															
<b>H207535</b>				<b>SSI - 5' BG 5</b>				<b>X</b>				<b>10-16-12</b>				<b>9:30</b>				<b>X X X</b>															
<b>2 SSI - 10' BG 5</b>				<b>X</b>				<b>"</b>				<b>9:40</b>				<b>X X X</b>																			
<b>3 SSI - 15' BG 5</b>				<b>X</b>				<b>"</b>				<b>9:46</b>				<b>X X X</b>																			
<b>4 SSI - 20' BG 5</b>				<b>X</b>				<b>"</b>				<b>9:52</b>				<b>X X X</b>																			
<b>5 SSI - 25' BG 5</b>				<b>X</b>				<b>"</b>				<b>9:53</b>				<b>X X X</b>																			
<b>6 SSI - 30' BG 5</b>				<b>X</b>				<b>"</b>				<b>9:56</b>				<b>X X X</b>																			
<b>7 SSI - 40' BG 5</b>				<b>X</b>				<b>"</b>				<b>9:59</b>				<b>X X X</b>																			
<b>8 SSI - 50' BG 5</b>				<b>X</b>				<b>"</b>				<b>10:04</b>				<b>X X X</b>																			
<b>9 SSI - 60' BG 5</b>				<b>X</b>				<b>"</b>				<b>10:14</b>				<b>X X X</b>																			
<b>10 SSI - 70' BG 5</b>				<b>X</b>				<b>"</b>				<b>10:24</b>				<b>X X X</b>																			
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Relinquished By: <b>Justin Roberts</b> Date: <b>10/16/12</b> Time: <b>1:25</b> Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Received By: <b>Den Henson</b> Date: <b>10/16/12</b> Time:				Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) <b>JDH</b>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:																			







# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> <u>Diamondback Disposal Serv. Inc.</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
<b>Project Manager:</b> <u>Justin Roberts</u>				<b>P.O. #:</b>															
<b>Address:</b> <u>P.O. Box 2491</u>				<b>Company:</b>															
<b>City:</b> <u>Hobbs</u> <b>State:</b> <u>NM</u> <b>Zip:</b> <u>88241</u>				<b>Attn:</b>															
<b>Phone #:</b> <u>575-392-9996</u> <b>Fax #:</b> <u>575-392-9376</u>				<b>Address:</b>															
<b>Project #:</b> <u>N/A</u> <b>Project Owner:</b> <u>CUPL</u>				<b>City:</b>															
<b>Project Name:</b> <u>MCA 1A TRUNKLINE</u>				<b>State:</b> <b>Zip:</b>															
<b>Project Location:</b> <u>Maljamar</u>				<b>Phone #:</b>															
<b>Sampler Name:</b> <u>Justin Roberts</u>				<b>Fax #:</b>															
<b>FOR LAB USE ONLY</b>		<b>MATRIX</b>		<b>PRESERV.</b>		<b>SAMPLING</b>													
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>IGRAB OR (C)OMP</b>	<b># CONTAINERS</b>	<b>GROUNDWATER</b>	<b>WASTEWATER</b>	<b>SOIL</b>	<b>OIL</b>												
<u>H202535</u>	<u>SS2-50' BG5</u>	<u>91</u>				<u>X</u>				<u>X</u>			<u>10/6/12</u>	<u>11:46</u>					

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<b>Relinquished By:</b> <u>Justin Roberts</u>	<b>Date:</b> <u>10/17/12</u>	<b>Received By:</b> <u>Jodi Benson</u>	<b>Phone Result:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Add'l Phone #:</b>
<b>Relinquished By:</b>	<b>Date:</b>	<b>Received By:</b>	<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Add'l Fax #:</b>
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:			<b>REMARKS:</b>	
<b>Sample Condition:</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			<b>CHECKED BY:</b> <u>JRB</u>	

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

#26



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

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June 24, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: COP MCA 1A TRUNKLINE

Enclosed are the results of analyses for samples received by the laboratory on 06/19/14 14:15.

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

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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	06/19/2014	Sampling Date:	06/18/2014
Reported:	06/24/2014	Sampling Type:	Soil
Project Name:	COP MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

**Sample ID: SB2@ 55FT (H401850-01)**

BTX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2014	ND	2.03	101	2.00	2.64	
Toluene*	<0.050	0.050	06/20/2014	ND	2.18	109	2.00	2.92	
Ethylbenzene*	<0.050	0.050	06/20/2014	ND	1.99	99.3	2.00	3.07	
Total Xylenes*	<0.150	0.150	06/20/2014	ND	6.23	104	6.00	2.85	
Total BTX	<0.300	0.300	06/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/20/2014	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/23/2014	ND	181	90.3	200	3.55	
DRO >C10-C28	340	10.0	06/23/2014	ND	197	98.3	200	6.86	

Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	06/19/2014	Sampling Date:	06/18/2014
Reported:	06/24/2014	Sampling Type:	Soil
Project Name:	COP MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

### Sample ID: SB2@ 65FT (H401850-02)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2014	ND	2.03	101	2.00	2.64	
Toluene*	<0.050	0.050	06/20/2014	ND	2.18	109	2.00	2.92	
Ethylbenzene*	<0.050	0.050	06/20/2014	ND	1.99	99.3	2.00	3.07	
Total Xylenes*	<0.150	0.150	06/20/2014	ND	6.23	104	6.00	2.85	
Total BTEx	<0.300	0.300	06/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	06/20/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/23/2014	ND	181	90.3	200	3.55	
DRO >C10-C28	230	10.0	06/23/2014	ND	197	98.3	200	6.86	

Surrogate: 1-Chlorooctane 78.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.5 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	06/19/2014	Sampling Date:	06/18/2014
Reported:	06/24/2014	Sampling Type:	Soil
Project Name:	COP MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

**Sample ID: SB2@ 75FT (H401850-03)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2014	ND	2.03	101	2.00	2.64	
Toluene*	<0.050	0.050	06/20/2014	ND	2.18	109	2.00	2.92	
Ethylbenzene*	<0.050	0.050	06/20/2014	ND	1.99	99.3	2.00	3.07	
Total Xylenes*	<0.150	0.150	06/20/2014	ND	6.23	104	6.00	2.85	
Total BTX	<0.300	0.300	06/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/20/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/23/2014	ND	181	90.3	200	3.55	
DRO >C10-C28	236	10.0	06/23/2014	ND	197	98.3	200	6.86	

Surrogate: 1-Chlorooctane 78.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# 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

Company Name: <u>RACS</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>									
Project Manager: <u>Kyle Norman</u>				P.O. #:				<div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div>									
Address:				Company:													
City: Hobbs State: NM Zip: 88240				Attn:													
Phone #: Fax #:				Address:													
Project #: Project Owner:				City:													
Project Name: <u>COP MCA 1A Trunk Line</u>				State: Zip:													
Project Location:				Phone #:													
Sampler Name: <u>Amber Groves</u>				Fax #:													
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					
										6-18-14		10:00					
										6-18-14		10:10					
										6-18-14		10:20					

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Relinquished By: <u>Amber Groves</u>		Date: <u>6/19/14</u>	Received By: <u>Kathy Perry</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: <u>2:15</u>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:				email results	
Delivered By: (Circle One)		knorman@rice-ecs.com hconder@rice-ecs.com;			
Sampler - UPS - Bus - Other: <u>1-6e-154</u>		Lweinheimer@rice-ecs.com; kjones@riceswd.com;			
Sample Condition		Lpena@riceswd.com; sedwards@rice-ecs.com			
Cool Intact		agroves@rice-ecs.com			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
CHECKED BY: <u>KP</u>					

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



# Appendix C

## Soil Bore Log

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

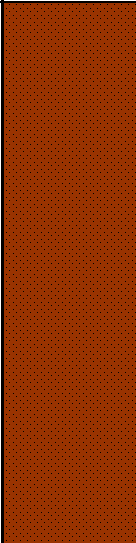


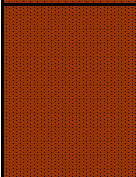
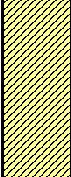
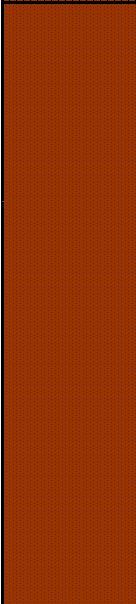
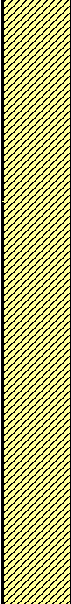
<b>Logger:</b>	Amber Groves			
<b>Driller:</b>	White Drilling			
<b>Drilling Method:</b>	Air Rotary		<b>Project Name:</b>	
<b>Start Date:</b>	6/18/2014		CoP MCA 1A Header	<b>Well ID:</b>
<b>End Date:</b>	6/18/2014			SB-2
<b>Project Consultant:</b> RECS				

Comments: All samples were taken from cuttings.  DRAFTED BY: C. Uršanić TD = 75'                      GW = 95' - 105'	<b>Location:</b> U/L G Sec 30 T-17-S R-32-E <b>Lat:</b> 32°48'24.926"N <b>County:</b> Lea <b>Long:</b> 103°48'10.021"W <b>State:</b> NM
--	--

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
SS						
5 ft						
10 ft						
15 ft						
20 ft						
25 ft						
30 ft						
35 ft						

RED SAND

Bentonite  
Seal

Depth (feet)	Chloride field tests	LAB	PID	Description		Lithology		Well Construction	
40 ft				COARSE RED SAND					 Bentonite Seal
45 ft									
50 ft									
55 ft	452	CI-432	6.9						
	B <0.05 T <0.05	GRO <10		RED SAND					
	E <0.05 X <0.15	DRO 340							
60 ft	618		7.1	RED SAND/CLAY					
65 ft	1024	CI-1150	5.6						
	B <0.05 T <0.05	GRO <10							
	E <0.05 X <0.15	DRO 230							
70 ft	803		6.4						
75 ft	369	CI-352	5.4						
	B <0.05 T <0.05	GRO <10							
	E <0.05 X <0.15	DRO 236							





# Appendix D

## Photo Documentation

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

# ConocoPhillips MCA 1A Header

Unit Letter G, Section 30, T17S, R32E



Drilling SB-2, facing southeast

6/18/14



Plugging SB-2 in total with bentonite, facing east

6/18/14



Completed SB-2, facing southeast

6/18/14



Completed SB-2, facing northwest

6/18/14