

## **CONOCOPHILLIPS**

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

# MCA 1A Header 1RP-3231

# 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 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 analysis of SS-2 returned chloride values 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,

JC.W.

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

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

## Initial Sampling Data



Drafted by: L. Weinheimer

# Appendix A Initial C-141

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

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesin, NM 88210 District III 1000 Rio Brazos Road, Aztee, 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

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			Rel	ease Notifi	catio	on and Co	orrective A	ction				
					01	PERATOR			🛛 İniti	al Report		Final Repo
Name of C	ompany C	ConocoPhilli	ps Comp	Dany		Contact Jo	hn W. Gates					······································
Address 3	300 North	A St. Bldg	6, Midla	nd, TX 79705-:	5406	J6         Telephone No.         505.391.3158						
Facinty Na	me IVICA	IA Header			···	Facility Typ	e Oil and Ga	S				
Surface Ow	mer Fede	eral		Mineral (	Dwner	Federal	· · · · · · · · · · · · · · · · · · ·		Lease 1	No LC 02	9410B	
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	30	17	32							Lea		
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Crude Oil	aat & Produc	ed Water			Vo 47	unte of Release	: (ater)		Volume F	lecovered		
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By Whom?	Justin Wr	ight			Dat	e and Hour 3/	14/12			· · ·		
Was a Water	course Read	ched?		•	If Y	ES, Volume In	pacting the Wate	ercourse.				·
			Yes 🗵	No								
If a Watercou	irse was Im	pacted, Descri	ibe Fully.*	•	- <b>-</b>							
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A 6 inch tr	ansite pro	duction line	at the N	I Taken." ICA 1 A Heade	er fail	ed at the coll	ar due to suspe	ected ag	e/fatigue			
Describe Area	Affected a	and Cleanup A	ction Tak	en.*	·	······································						
A 25' X 85'	X 24" de	ep area of p	asturela	nd located ~35(	) varð	s north and d	east of the 1A l	header.	No fluid	s could be	reactu	wed The
spill site wil	l be Delin	eated/Reme	diated in	accordance w	ith BI	LM & NMOO	D guidelines			s comu pe	I CCUY	ercu. The
<b>Y 1</b> 1 1												
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Signature:	Joh	n.W.		£			OIL CONS	SERVA	TION	DIVISIO	N	
Printed Name:	John W.	Gates				Approved by D	District Superviso	or:				
itle: HSER	Lend	·····				Approval Date:		Ex	piration D	ate:		
-mail Addres	s: John,W.	Gates@cono	cophillips	.com		Conditions of A	Approval:					
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late: 3/19/1	2	Pho	one: 505,	391.3158								
<ul> <li>Attach</li> </ul>	Additiona	I Sheets If N	lecessary						······		· · · · · · · · · · · · · · · · · · ·	

## 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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,

Celez D. Kune

Celey D. Keene Lab Director/Quality Manager

Page 1 of 9



#### 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	Sampling Date:	06/06/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	MCA IA TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

971

11500

210 %

405 %

100

100

65.2-140

63.6-154

BTEX 8021B	mg/l	kg	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d 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/l	kg	Analyze	d By: MS				1000	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Oualifier

ND

ND

06/12/2012

06/12/2012

176

172

88.0

86.2

200

200

4.28

7.49

**Cardinal Laboratories** 

GRO C6-C10

DRO >C10-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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#### 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	Sampling Date:	06/06/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	MCA IA TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/	kg	Analyze	d 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*	0.077	0.050	06/13/2012	ND	2.21	111	2.00	1.77	
Total Xylenes*	0.224	0.150	06/13/2012	ND	6.86	114	6.00	0.457	
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 89.4-12	6						
Chloride, SM4500CI-B	ma/	ka	Analyze	d Ry: AP					

	ing	19	ranaryze	6 by . m					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	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	
DR0 >C10-C28	358	10.0	06/12/2012	ND	172	86.2	200	7.49	
Surrogate: 1-Chlorooctane	95.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115	63.6-15	4						

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#### \*=Accredited Analyte

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Celey D. Kune

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	Sampling Date:	06/06/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	MCA IA TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg,	/kg	Analyze	d 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-Bromolluorobenze	ne (PIL 103	% 80 ± 12	6						

Chloride, SM4500CI-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				1.1	1.0.	
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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110	63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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#### 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	Sampling Date:	06/06/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	MCA IA TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS				1.0	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-Chlorooctadecane 281 %

269 %

65.2-140

63.6-154

Cardinal Laboratories

Surrogate: 1-Chlorooctane

#### \*=Accredited Analyte

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Celeg D. Kaine

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 9



#### 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	Sampling Date:	06/06/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	MCA IA TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

#### Sample ID: HA 2 10' BGS (H201294-05)

BTEX 8021B	mg/	kg	Analyze	d 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*	0.761	0.500	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	1.48	0.500	06/13/2012	ND	2.21	111	2.00	1,77	
Total Xylenes*	3.31	1.50	06/13/2012	ND	6.86	114	6.00	0.457	
Surrogate: 4-Bromofluorobenzene (PIL	112 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/l	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	06/12/2012	ND	432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.9	10.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	179	10.0	06/12/2012	ND	172	86.2	200	7.49	
Surrogate: 1-Chlorooctane	93.0 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	109 %	6 63.6-15	3						

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#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/08/2012	Sampling Date:	06/06/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	MCA IA TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/	kg	Analyze	d 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*	0.058	0.050	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	0.154	0.050	06/13/2012	ND	2.21	111	2,00	1.77	
Total Xylenes*	0.383	0.150	06/13/2012	ND	6.86	114	6.00	0.457	
Surrogate: 4-Bromofluorobenzene (PIL	120 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	06/12/2012	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.6	10.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	290	10.0	06/12/2012	ND	172	86.2	200	7.49	
Surrogate: 1-Chlorooctane	90.5	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

5-06	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.
-1.	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

Company Name: DiAmond bACK Disposit					BILL TO						ANALYSIS REQUEST						
				P.O. #:									TI				
ddress: P.U.	Box 2491				Compar	ny:											
ity: 1tobb	S State: 1 M	1 Zip	: 8	8240	Attn:												
hone #: 579	5-392-9999 Fax #: 5	75.	392	2-9374	Address	s:											
roject #: 🔨	JA Project Own	er:	001	PC	City:										1		- 1
roject Name:	MLA IA TRUNKLIN	E			State:	Z	lip:										
roject Location	: MALJAMAR				Phone #	¢;											
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FOR LAB USE ONLY		T	TT	MATRIX	PRES	SERV.	SAMPL	ING	+	2							
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service. It no event shall Cardinal be faited for incidental or consequential demagos, including without innotation, business interruptions, loss of use, or loss of profils incurred by clerit, its subsidialities.

fillates or successors arising out of or related to the performance of services hereunder by Caudinal, repardiesy of whether such claim is based upon any of the above stated reasons or otherwise

Relinquished By: Relinquished By:	Date: IS DOW MUMM	Phone Result: Yes No Fax Result: Yes No REMARKS:	Add'I Phone #: Add'I Fax #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Time: Sample Condition CHECKED BY: Cool Intact (Initials), Dives Yes (Initials), No No No			

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

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 <a href="http://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 26



#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 80218	mg/l	kg	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/l	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/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.0 %	63.6-15	4						

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#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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#### Analytical Results For:

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

10/17/2012	Sampling Date:	10/16/2012
10/31/2012	Sampling Type:	Soil
MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Jodi Henson
MALJAMAR, NEW MEXICO		
	10/17/2012 10/31/2012 MCA 1A TRUNKLINE NONE GIVEN MALJAMAR, NEW MEXICO	10/17/2012Sampling Date:10/31/2012Sampling Type:MCA 1A TRUNKLINESampling Condition:NONE GIVENSample Received By:MALJAMAR, NEW MEXICOSample Received By:

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

BTEX 8021B	mg,	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, SM4500CI-B	mg/	/kg	Analyze	d 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	
DR0 >C10-C28	149	10.0	10/18/2012	ND	189	94.7	200	8.47	
Surrogate: 1-Chlorooclane	79.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.5	% 63 6-15	4						

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Celey D Keine

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:	10/17/2012	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/l	cg	Analyze	d 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-Bramafluorobenzene (PIL	113 %	89.4-12	б						
Chloride, SM4500CI-B	mg/l	g	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/s	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	80.4 %	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 26



#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/	kg	Analyze	d 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%	5 89.4-12	6						
Chloride, SM4500CI-B	mg/l	cg	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/l	cg	Analyze	d By: MS		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2012	ND	192	95.9	200	5.10	
DR0 >C10-C28	354	10.0	10/18/2012	ND	189	94.7	200	8.47	

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Celey D. Keine

82.1%

90.4 %

65.2-140

63.6-154

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:	10/17/2012	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/l	kg	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/l	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/l	kg	Analyze	d By: MS		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	83.1 %	63.6-15	4						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/l	kg	Analyze	ed 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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/l	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/l	cg	Analyze	d By: MS	1			_	
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	73.8.9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	79 4 9	63 6-15	4						

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#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/l	¢g	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/l	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/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	6 65.2-14	n						
Surrogate: 1-Chlorooctadecane	76.1 9	6 63.6-15	4						

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#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/l	kg	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/l	cg	Analyze	d 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/l	kg	Analyze	d By: MS	-			-	_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	179	89.5	200	1,14	
DR0 >C10-C28	69.8	10.0	10/19/2012	ND	176	87.9	200	0.0370	
Surrogate: 1-Chlorooctane	74.5 %	65.2-14	a						
Surrogate: 1-Chlorooctadecane	77.8 9	63.6-15	4						

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#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/kg		Analyze	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 %	6 89.4-12	6						
Chloride, SM4500CI-B	ma/	ka	Analyze	d 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		Analyze	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	% 65.2-14	0.							
Surrogate: 1-Chlorooctadecane	84.5	% 63.6-15	4							

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#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/l	kg	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d 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/l	kg	Analyze	d By: MS	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	81.19	65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.6 9	63.6-15	4						

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

Received:	10/17/2012	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 80218	mg,	/kg	Analyze	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, SM4500CI-B	mg/kg		Analyze	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	
DR0 >C10-C28	37.0	10.0	10/19/2012	ND	176	87.9	200	0.0370	
Surrogate: 1-Chlorooctane	83.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecone	88.6	% 63.6-15	A						

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#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 80218	mg,	/kg	Analyze	d 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, SM4500CI-B	mg/kg		Analyze	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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/19/2012	ND	179	89.5	200	1.14	
DR0 >C10-C28	92.0	10.0	10/19/2012	ND	176	87.9	200	0.0370	
Surrogate: 1-Chlorooctane	75.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.6	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/17/2012	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	ka	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0	-					
Surrogate: 1-Chlorooctadecane	81.9	% 63.6-15	4						

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#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/	kg	Analyze	d 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 (PIL	136 %	% 89.4-12	6						
Chlorida SM4500CLB	mal	ka	Analyza	d Due MM					

chionac shirtsouch	ing.	ng	Allolyze	u by. mm					
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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.1	% 63.6-15	4						

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#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soll
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/l	¢g	Analyze	d 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*	0.144	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	0,488	0.150	10/18/2012	ND	5.35	89.2	6.00	14.9	
Surrogate: 4-Bromofluorobenzene (PIL	129 %	89.4-12	6						
Chloride, SM4500Cl-B	mg/l	cg	Analyze	d By: HM				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	10/23/2012	ND	400	100	400	3.92	
TPH 8015M	mg/k	g	Analyze	d By: MS	_			_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2012	ND	192	95,9	200	5.10	
DRO >C10-C28	102	10.0	10/18/2012	ND	189	94.7	200	8.47	
Surrogate: 1-Chlorooctane	77.9 %	6 65.2-140	0						
Surrogate: 1-Chlorooctadecane	81.9%	63.6-15	1						

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/17/2012	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/l	cg	Analyze	d 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 %	89.4-12	6						
Chioride, 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/s	g	Analyze	d 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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.1 %	63.6-15	4						

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#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg,	/kg	Analyze	d 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*	0.132	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	0.332	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	0.857	0.150	10/18/2012	ND	5.35	89.2	5.00	14.9	
Surrogate: 4-Bromofluorobenzene (PIL	136	% 89.4-12	6						

Chionae, SM4500CI-B	mg/	ĸg	Anaiyze	а ву: нм					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1400	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	17.0	10.0	10/18/2012	ND	192	95.9	200	5.10	
DR0 >C10-C28	184	10.0	10/18/2012	ND	189	94.7	200	8.47	
Surrogate: 1-Chlorooctane	82.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	83.6	% 63.6-15	4						

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/17/2012	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

#### Sample ID: SS 2 - 25' BGS (H202535-18)

. .

BTEX 8021B	mg/	kg	Analyze	d 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*	0.052	0.050	10/18/2012	ND	2.04	102	2.00	4.75	
Ethylbenzene*	0.148	0.050	10/18/2012	ND	1.95	97.5	2.00	8.19	
Total Xylenes*	0.340	0.150	10/18/2012	ND	5.35	89.2	5.00	14.9	
Surrogate: 4-Bromofluorobenzene (PIL	122 5	89.4-12	б						

Cilional, 344300CI-0	ing	/ *9	Andryze	а ву, пм	_				
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	12.0	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	490	10.0	10/19/2012	ND	176	87.9	200	0.0370	
Surrogate: 1-Chlorooctane	75.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.8	% 63.6-15	4						

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#### 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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/l	cg	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/l	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/l	cg	Analyze	d 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 9	65.2-140	0						
Surrogate: 1-Chlorooctadecane	88.7 9	63.6-15	4						

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

Received:	10/17/2012	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg/l	kg	Analyze	d 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*	0.086	0.050	10/22/2012	ND	2.16	108	2.00	2.30	
Total Xylenes*	0.352	0.150	10/22/2012	ND	6.54	109	6.00	2.75	
Surrogate: 4-Bromofluorobenzene (PIL	125 %	6 89.4-12	5						
Chloride, SM4500Cl-B	mg/l	mg/kg		Analyzed By: HM				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/24/2012	ND	400	100	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15.2	10.0	10/19/2012	ND	179	89.5	200	1.14	
DRO >C10-C28	579	10.0	10/19/2012	ND	176	87.9	200	0.0370	
Surrogate: 1-Chlorooctane	83.5 9	6 65.2-14	7						
Surrogate: 1-Chlorooctadecane	92.9 9	6 63.6-15	1						

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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	Sampling Date:	10/16/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	MCA 1A TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR, NEW MEXICO		

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

BTEX 8021B	mg	/kg	Analyze	d By: MS	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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*	0.066	0.050	10/22/2012	ND	2.16	108	2.00	2.30	
Total Xylenes*	0.268	0.150	10/22/2012	ND	6,54	109	6.00	2.75	
Surrogate: 4-Bromofluorobenzene (PIL	125	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/24/2012	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.0	10.0	10/19/2012	ND	179	89.5	200	1.14	

ND

176

87.9

200

0.0370

10/19/2012

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DR0 >C10-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Celey D. Keine

626

77.4%

86.2 %

10.0

65.2-140

63.6-154

Celey D. Keene, Lab Director/Quality Manager

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#### 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 SM4500CI-B does not require samples be received at or below 6°C	
	Samples reported on an as received basis (wet) unless otherwise noted on report	

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Celey D. Keene, Lab Director/Quality Manager

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## CARDINAL Laboratories

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

ect Manager: Justin RubFats ress: P.U. Box 2491 Ifubhs State: NM Zip: 8824 re #: 575-312-9996 Fax #: 575-312-9376	1	P.O. #: Company:			T		1 1		support the second	the state of the local division of the local	CONTRACTOR OF TAXABLE PARTY.	-		
ress: P.U. Box 2491 14665 State: AM Zip: 8824, 10#: 575-312-9996 Fax #: 575-312-9376	/	Company:						- 1						T
14065 State: AM Zip: 8824. 10#: 575-312-4946 Fax #: 575-312-9376	/				1			11				1		
10 #: 575-312-4946 Fax #: 575-312-9376	/ 1	Attn:												
	- 1	Address:			1									
ect #: NA Project Owner: COPC		City:								1.0	1.1			
ect Name: MLA ZA TRUNK LINE		State:	Zip:											
act Location: MALIAMAR		Phone #:												
pler Name: JUSTIN ROAERTS		Fax #:												
LAB USE DNLY M	ATRIX	PRESERV	SAMPL	ING	1									
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6 451-50 B655 11 Y	4		11	10:04	1x	X	Ý							
9 551-60'B45	4	1	11	10:14	X	¥	X	1	1				1000	
10 551 - 70' BGS WW Y	X		16	10:24	Y	X	V							
ENOTE: Unbeloy not Discussion. Canonically leading and construction removes for our releases and a spectration of a Alk cinema stateling trade for negligence and any other cauto washeever that in decrementation are in mark.	a chin covinent - a vi vi king and	The subbelines	in the antaurit ra show X days 3	en sy fte skort In Int constitute att	and and a second second	4		concert ana	-	-				
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24 A

Page 24 of 26

## CARDINAL Laboratories

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

Company Name: DIAMONOBACK DISPUSAT SAV. INC	BILL TO	ANALYSIS REQUEST	
Project Manager: Justin RubEets	P.O. #:		1
Address: P.O. Box 2491	Company:		
Sity: 1tobhs State: NM Zip: 88241	Attn:		
hone #: 575-312-9996 Fax #: 575-312-9376	Address:		
Project #: N/A Project Owner: COPC	City:		
roject Name: MCA IA TRUNK INF	State: Zin:		
Project Location: MAJAMAR	Phone #:		
Sampler Name: Justin RebERts	Fax #:		
FOR LAB USE DNLY MATRIX	PRESERV SAMPLING		
AWC &		I X	
I FRS		RRT	
Lab I.D. Sample I.D.	VSE	100	
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13 (51 - 100' R/A	10:52		- 11
141552- 5' 865	X 11 11.13		
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16552-15 BGS	1 1 11:25	8 8 8 8	
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19 552-30'B65	1 11:36	XXX	
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Relinquished By:	Time: 25 Hodi Alenson	Phone Result Fax Result: REMARKS	Yes Yes	C No C No	Add'l Phone #: Add'l Fax #:
Keinquisnea by:	Date: Repoived By: Time:				
Delivered By: (Circle One)	Sample Condition CHECKED BY:				
Sampler - UPS - Bus - Other:	Le res Vos				

#26

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Page 25 of 26

# Laboratories

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

	Dramoudbach	Dicost	600	1. INC.		BILL TO	and the second se		and the second	ANALY	SIS REC	UEST		
Project Manager	Justa Re	bERts			P.O. #:		T	T	T					T
Address: P.U	). Box 249	/			Company	:						511.1		
ity: Itch	45	State: A M	Zip: S	18241	Attn:			1						
hone #: 575	-392-9996	Fax #: 570	- 79	2-9376	Address									
Project#: A	VIA	Project Owner	10	PC	Cibr									
Project Name:	MIA IA	- TRUNK	IN	Ē	State	Zin		1.1						
Project Location	MALIA	MAR			Phone #	Edb.		1						
Sampler Name:	dustin 1	WERTS			Fax #:		1							
FOR LAB USE ONLY			T	MATRIX	PRESE	RV. SAMPLING		1						1
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CHECKED BY:

(Hititals)

26

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2446

9

Sample Condition

#

Cool Intact

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Page 26 of 26



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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)

BTEX 8021B	mg/	kg	Analyze	d 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	117 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.2 9	63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.5 %	63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8021B	mg/	kg	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.1 9	63.6-15	4						

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#### \*=Accredited Analyte

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Celey D. Keine

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

P.O. #:       P.O. #:         Address:       Company:         Address:       Company:         Sity: Hobbs       State: NM         Project Asses:       Address:         Project Mame(C) P       Project Owner:         Clity:       Clity:         Project Name(C) P       Project Owner:         Clity:       State:         Project Name(C) P       Project Owner:         Clity:       State:         Project Name(C) P       Matrix         Project Name(C) P       Pate         Matrix       Project Name(P)         Sappler Name(P)       Pate         Matrix       Project Name(P)	ompany Name: DG/S							Ner-			BIL	170	kaj devider				4	ANAL	YSIS RE	QUEST		 _
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agroves@rice-ecs.com

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

10 C

Sampler - UPS - Bus - Other:

Yes res

# $\underset{\text{Soil Bore Log}}{\text{Appendix }} C$

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

Logger: Driller:	Amber Groves White Drilling		SB-2 SS-2 C J				
Drilling Method:	Air Rotai	ŷ	+HA 2	Project Name:	Well ID:		
Start Date:	6/18/201	4	SS 1	CoP MCA 1A He	eader SB-2		
End Date:	6/18/201	4	AC	Project Consultant: RECS			
Comments: All s	samples were	taken	from cuttings.	Location: U/L G Sec 30 T-17-S R-32-E			
т	<b>DR</b> D = 75'	AFTED E	BY: C. Uršanić GW = 95' - 105'	Lat: 32°48'24.926' Long:103°48'10.0	"N County:Lea 21"W State:NM		
Depth Chlor (feet) field to	ride ests LAB	PID	Description	Lithology	Well Construction		
SS 5 ft 10 ft 10 ft 15 ft 20 ft 25 ft 30 ft 35 ft 35 ft			RED SAND		Bentonite Seal		

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



### WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER)     OSE FILE NUMBER(S)       SB-2     WELL OWNER NAME(S)       Conoco Phillips     PHONE (OPTIONAL)       WELL OWNER MAILING ADDRESS     CITY       HC 60, Box 66     CITY       WELL     DEGREES       WELL     LOCATION       (FROM GPS)     LATITUDE       103     48       10.00     W       * ACCURACY REQUIRED: ONE TENTH OF A SECOND       * ACCURACY REQUIRED: WGS 84       DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS -PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE       MCA I Trunk Line							ZIP O			
¿ CASING INFORMATION	LICENSE NUMBER WD-1456 DRILLING STARTED 06/18/2014 COMPLETED WELL IS: C ARTESIAN		DEPTH OF COMPLET	TH OF COMPLETED WELL (FT) 75.0 DRY HOLE C SHALLOW (UNCONFINED)		NAME OF WELL DRILLING COMPANY White Drilling Company, Inc. DEPTH WATER FIRST ENCOUNTERED (FT) Dry STATIC WATER LEVEL IN COMPLETED WELL (FT) Dry					
	DRILLING FLUID: DRILLING METHOD: DEPTH (feet bgl) FROM TO		( p: ( gl) O	AIR ROTARY BORE HOLE DIAM (inches)	MUD       ADDITIVES - SPECIF         HAMMER       CABLE TOOL         CASING MATERIAL AND/OR         GRADE         (include each casing string, and         note sections of screen)		ECIFY: O OTHE CA CONN T	R – SPECIFY: SING NECTION YPE	CASING CASING WALL INSIDE DIAM. (inches) (inches)		SLOT SIZE (inches)
2. DRILLING											
3. ANNULAR MATERIAL	DEPTH (feet bgl)         J           FROM         TO         J           0.0         75.0         6		BORE HOLE DIAM. (inches) 6.0	LIST ANNULAR SEAL MATERIAL A GRAVEL PACK SIZE-RANGE BY INTE Type 2 Portland Cement w/5% Benton		ND RVAL ite	AMOUNT (cubic feet) 14.7225	METHO PLACEM Pump Mix v	METHOD OF PLACEMENT Pump Mix w/tremna		
FOR FILE LOC	OSE INTER NUMBER ATION	NAL U	ISE			POD NUMBER	4. T	WR-2 TRN 1	0 WELL RECORD &	& LOG (Version 06/0	8/2012) 1 OF 2

## 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



Completed SB-2, facing southeast

6/18/14



Plugging SB-2 in total with bentonite, facing east 6/18/14



Completed SB-2, facing northwest

6/18/14