

# **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

£8

			Rel	ease Notifi	catio	on and Co	orrective A	ction					
					01	PERATOR			🛛 İniti	al Report		Final Repo	
		ConocoPhilli					hn W. Gates					······································	
Address 3	300 North	<u>1 A St. Bldg</u> 1A Header	6, Midla	nd, TX 79705-	5406		No. 505.391.3						
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		
				LOC	ATIC	<b>DN OF REI</b>	EASE						
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/W	est Line	County			
	30	17	32							Lea			
	1	I	L	atitude N32 48			nde W 103 48	.200					
Type of Rele	058			NAT		E OF RELI							
Crude Oil		ed Water				ume of Release bbl (170il, 30w				lecovered			
Source of Re		••• ••••••		· · · · · · · · · · · · · · · · · · ·		47bbl (17oil, 30water)     (0oil, 0water)       Date and Hour of Occurrence     Date and Hour of Discovery							
1A Header	· producti	on line(6" ti	ransite)			Bate and Hour of Discovery           3/14/12         1403           3/14/2012         1530							
Was Immedi	ate Notice (	Given?			If Y	ES, To Whom		ł_					
	۲ 🛄 ۲	/es 🖾 No	🗌 Not 1	Required	NM	IOCD & BLM	Were notified						
By Whom? Justin Wright						Date and Hour 3/14/12							
Was a Watercourse Reached?							pacting the Wate	ercourse.				·	
			Yes 🛛	No									
If a Watercou	irse was Im	pacted, Descri	ibe Fully.*	•	- <b>-</b>								
												67	
Describe Cau	a of Duchl	em and Reme	11-1 A - 11 - 1	T-1+			·				······		
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 n	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	
public health should their o or the environ	or the environment of the enviro	onment. The	acceptance acceptance dequately CD accept	is true and compl d/or file certain re e of a C-141 repo- investigate and re ance of a C-141 r	lease r t by th media	otifications and te NMOCD ma te contaminatio	d perform correct rked as "Final Re	tive action eport" dou	ns for rele es not relik	ases which a	may end	langer liability	
Signature:	Joh	n.W.		£			OIL CONS		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:						
							The state			Attached			
Date: 3/19/1			one: 505,										
<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/	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 9	6 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	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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

REASE NOTE: Lubbility and Damages. Cardinal's labbility and clemit's eschability enready for any claim arising, whether based in contract or tart, shell be limited to the amount paid by client for analyses. All claims, including these for negligence and any other cause whiceover shall be latened walved 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, induding, without limitation, business literariptions, loss of use, or loss of profits lincuries by calent, stabilities, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether auch damin is based upon any of the above shated reasons or otherwise. Results ratio with which approval of Cardinal Laboretones.

Celeg D Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 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 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	mg/	ka	Analyze	d By: AP					

Chionue, Smasuuci-b	ing,	/ kg	Analyze	O BY: AP					
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	
DRO >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						

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim aming, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including these for negligence and any other cause whatsoever shall be limited to the amount paid by client for analyses. All claims, including these for negligence and any other cause whatsoever shall be limited to the amount paid by client for analyses. All claims, including these for negligence and any other cause whatsoever shall be limited to the amount paid by client for analyses. All claims, including these for incidental or consequential durages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidience, affilietes or successors anising out of or related to the performance of the services freeunder 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.

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	

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS	1			1.11.	
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						

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 4 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 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	Qualifie
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	6 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	Qualifie
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	Qualifie
GRO C6-C10	2950	100	06/12/2012	ND	176	88.0	200	4.28	
	8830	100	06/12/2012	ND	172	86.2	200	7.49	

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, avail be limited to the amount paid by client for analyzes. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and rocoved by Cardinal within thin'ry (30) days after completion of the applicable service. In no event shall be limited to the services have been stated cardinal be limited to the services have been stated reasons or otherwise. Results relate only to the samples limited and or consequential damages, whole limits based upon any of the above stated reasons or otherwise. Results relate only to the samples limited above. This report shall not be reported incored in the whole stated reasons or otherwise. Results relate only to the samples limited above. This report and not personal above stated reasons or otherwise.

Celeg D. Kune

281 %

63.6-154

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

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

# 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	Qualifie
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 9	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	Qualifie
Chloride	10100	16.0	06/12/2012	ND	432	108	400	0.00	
TPH 8015M	mg/	g	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	109 %	63.6-15	a						

Cardinal Laboratories

# \*=Accredited Analyte

REACE NOTE: Liability and Demages. Cardinal's liability and client's exclusive remody for any daim 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 competion of the applicable service. In no event shall Cardinal be liable for incidental carosequential damages, lickeling, without limitation, business interruptions, loss of uses of loss of profile incurred by client, its autoevalues, and makes the relations of the performance of the performance of the services hereunder by Cardinal, regardless of whether such chains based upon any of the state stated reasons of share-state relations. This report shall not be improvide comport in full with written approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 6 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 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 %	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		Analyzed 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	n						

63.6-154

Surrogate: 1-Chlorooctadecane 116 %

Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and dient'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 whatboever shall be deemed waved unless made in writing and received by Cardinal within thinty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, which influence, based of unless interruptions, loss of use, or loss of profits incurred by client, its aubiditaries, atfiliates or successors arising out of or related to the performance of the service. Herewooder by Cardinal, regardless of whether such claims based upon any of the above statist reasons related values or tabutes. Each related to the intervalue liable to the service and analysis. In the regord table to the applicable and allower statist reasons or tabutes. The resort shall be for whether such claims based upon any of the above statist reasons or otherwise. Reserves the services or therwise. Reserves the services or otherwise. Reserves the services or otherwise. Reserves the services or therwise. Reserves the services or therwise. Reserves the service of the service and the service of the services or therwise. Reserves the service or the service of t

Celey D. Keine

Celey 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 matrix interference's.	and/or
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	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Candinal's liability and client's exclusive remedy for any daim 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 whistisoever shall be deemed waived unless made in writing and received by Cardinal within thinty (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 profiles incurred by Client, its subditianes, affiliates or successors anising out of or related to the performance of the services hereunider by Cantinal, 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 writen approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: DiAmond back Disposal Project Manager: Justin Roberts				BILL TO						ANA	ANALYSIS REQUEST				
				P.O. #:											
Address: P.U.	Box 2491				Company:	£								1 1	
	State: N M	Zip	: 8	8240	Attn:									1 1	
	5-392-9996 Fax#: 5				Address:			1						1 1	
	VA Project Own				City:			1						1 1	
roject Name:	MLA IA TRUNKLIN				State:	Zip:					1.5			1 1	
Project Location: MAJAMAN			Phone #:									1 1			
Sampler Name:					Fax #:									1 1	
FOR LAB USE ONLY		T	TT	MATRIX	PRESER	V. SA	MPLING	1	12					1 1	
		OMP		field 1	1	1	1	X	1/2					1 1	
1	Comple LD	0	LER	GROUNDWATER WASTEWATER Soll Soll SLUDGE	The state		1	12	K	5					
Lab I.D.	Sample I.D.	BOF	TAIP	EWP	BASE COOL	2	1	1	12	V				1 1	
1201294		BRA	CON	GROL SOIL SOIL SUD	OTHER: ACID/BASE: ICE / COOL	DA	TE TIME		1					1 1	
1201617	HAT CITAIE	1	#	V S O O O	OAS	4-6	the second se	V	V	V	-			+-+	
n	HAI SULFALE HAI 9'BGS	6		1 4		1 i	12:01	15	X	X					
3	HA 2 14'BGS	G		***			12:22	X	×	X				1	
¥	HAZ SURFACE	G		X	- 1		12:24	X	¥	V					
5	HA 2 10'BGS	19		7	4		12:47	X	¥	V					
	HA2 13' B65	G		iy I	1	10	1:07	Y	X	4			-		
		1	Ł.				· ·								
		-		1111		-									
														1.1.1.1	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim anising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatvoever shall be deemed waived unless mode in writing and releved by Cardinal within 30 days after completion of the applicable.

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 otherwee-

Relinquished By: Relinquished By:	Date: IS DOW MUMM	Phone Result: Yes N Fax Result: Yes N REMARKS:	
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

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		
	10/31/2012 MCA 1A TRUNKLINE NONE GIVEN	10/31/2012Sampling Type:MCA 1A TRUNKLINESampling Condition:NONE GIVENSample Received By:

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

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*	0.102	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 %	89.4-12	6						
Chloride, SM4500Cl-B	mg/k	g	Analyze	d 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/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	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						

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Curdinal's liability and client's exclusive remody for any daim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including trose for negligence and any other cause whatsoever shall be limited to the amount paid by client for analyses. All claims, including trose for negligence and any other cause whatsoever shall be limited to the amount paid by client for analyses. All claims, including trose for negligence and any other cause whatsoever shall be limited to the amount paid by client for analyses. All claims, including trose for negligence and any other cause whatsoever shall be teered 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 limited to or consequential damages, including, without limitation, business interruptons, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors aniang out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 26



### Analytical Results For:

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

2012	Sampling Date:	10/16/2012
2012	Sampling Type:	Soil
TRUNKLINE	Sampling Condition:	Cool & Intact
GIVEN	Sample Received By:	Jodi Henson
MAR, NEW MEXICO		
	012 TRUNKLINE SIVEN	2012     Sampling Type:       TRUNKLINE     Sampling Condition:       SIVEN     Sample 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	
DRO >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						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability 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 registeries and any other cause whatsoever shall be deemed walved 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 to incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaidiantes, airfiliates or successes anising out of or related to the performance of the services hereunder by Cardinal, regardless of which escut claim is based upon any of the shore stated reasons or otherwise. Results relate identified above: This report shall no to reproduced except in full with written approval of Cardinal Laboratovies.

Celey D Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 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 - 15' BGS (H202535-03)

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	10/18/2012	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-Bramofluorobenzene (PIL	113 %	89.4-12	6						
Chloride, SM4500CI-B	mg/l	g	Analyze	d 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	o l	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						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Carolinal's liability and client's exclusive remedy for any dam ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All daims, including those for negligence and any other cause whateover shall be deemed valved unless made in writing and received by Christian within thirty (30) days after completion of the upplicable service. In to event shall Carolinal be liable for incidental or corsequencial damages, including, without limitation, based primary days, loss of uses of use and by client, its subsidiantes, attiliates or successos attiling out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client is based upon any of the above atted reasons or observice. Results relate on the sample atted integrited above. This report shall not be reproduced except in full with writem lapproxil of Cardinal Laboratories.

Celey Di Keine

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	1169	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	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	354	10.0	10/18/2012	ND	189	94.7	200	8.47	

#### Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

# \*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Candinal's liability and cleams exclusive remedy for any data anising, whether based in contract or text, shall be leated to the annuality cleams for analyses. All claims, including those for megligence and any other cause whatsoever shall be deemed valued unless made in writing and received by Candinal within thinty (28) days after completion of the applicable service. In no event shall Currinal be liable for incidental or consequential alimages, including, without immution, business interruptions, loss of use, or loss of profiles incored by Olient, is subdatantes, affiliates or successors aliang cut of an related to the performance of the services hereunder by Candinal, regardless of whether such chim is based upon my of the absorbative.

Celey D. Keine

82.1%

90.4%

65.2-140

63.6-154

Celey D. Keene, Lab Director/Quality Manager

Page 5 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 - 25' BGS (H202535-05)

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	5.00	14,9	
Surrogate: 4-Bromofluorobenzene (PIL	114 %	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	112	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	
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						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including these tor negligence and any other cause whatsoever shall be limited to the amount paid by client for analyses. All claims, including these tor negligence and any other cause whatsoever shall be limited to the amount paid by client for analyses. All claims, including these tor negligence and any other cause whatsoever shall be limited to the amount paid by client for analyses. All claims, including these tor negligence and any other cause whatsoever shall be limited to the spelicable service. In no event shall Cardinal be liable for incliential or consequential tamages, including, without limitation, business interuptivits, loss of use, or loss of profits incurred by client, its subicliaries, arilliates or successors ansing out of or related to the performance or the services hereunder by Cardinal, regardless of whether such claims 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 web written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 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 - 30' BGS (H202535-06)

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 3	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	160	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	<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	65.2-14	0	1.1					
Surrogate: 1-Chlorooctadecane	79.4	63.6-15	\$						

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NUTE: Liability and Damages. Cardinal's liability and client's exclusive remoty for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including these 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 transequential damages, including, without limitation, business interruptions, loss of use, or lass of profits incurred by client, is subsidiaries, atfiliates or successors ensing out of or related to the performance of the services hereander by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results raiser only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 7 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 - 40' BGS (H202535-07)

BTEX 80218	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 %	89.4-12	6						
Chloride, SM4500Cl-B	mg/l	g	Analyze	d 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	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	10/19/2012	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 %	65.2-14	ŋ						
Surrogate: 1-Chlorooctadecane	76.1 %	6 63.6-15	4						

#### Cardinal Laboratories

# \*=Accredited Analyte

REASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remody for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysies. All claims, including those for negligence and any other cause whatbasever 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 subidiares, afflicter or successors arising out of or related to the performance of the services hersunder by Cardinal, regardless of whether such claim is tozed 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 writen approval of Cardinal Laborazonies.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 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 - 50' BGS (H202535-08)

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	108 3	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	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/	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	69.8	10.0	10/19/2012	ND	176	87.9	200	0.0370	
Surrogate: 1-Chlorooctane	74.5 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	77.8 9	6 63.6-15	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Ourdinai's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the ansunt paid by client for analysis. All claims, including those for negligence and any other cause whatboever shall be deemed valued unless made in writing and neceled by Cardinal within thirty (30) days, after completion of the applicable service. In no event shall Cardinal be liable for indental or consequential taimages, including, without limitation, business interruptions, loas of use, or loas of profits incurred by client, its subsidiaries, affiliates or successors anising out of ur related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasens or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Liaboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 9 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 - 60' BGS (H202535-09)

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	111 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	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		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 % 63.6-154

Cardinal Laboratories

#### \*=Accredited Analyte

RLASE NOTE: Liability and Damages. Curdinal'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 analysis. All claims, including those for negligence and any other cause whatsdever shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsdever shall be limited to the applicable service. In no event shall Cardinal be limited to use, or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profiles incurred by client, its subalitieries, affiltees 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 pely to the sameles identified above. This report shall not be reproduced except in hall with written approval of Ordinal Laboratories.

Celey D. Keine

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 1 - 70' BGS (H202535-10)

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	10/30/2012	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 %	89.4-12	6						
Chloride, SM4500Cl-B	mg/l	g	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	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	10/19/2012	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						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any client ansing, 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 wheteover shall be deemed walked unless made in writing and received by Contral within tricty (20) days after completion of the applicable service. In no event shall be liable for incidental cardinal, regardlass of values inducting, which the limitation, basiness interruptions, loss of profis incurred by client, its substantes, atfliates or auccessors arising out of or related to the performance of the services hereunder by Cardinal, regardlass of whother such client is based upon any of the shore stated reasons or entervies. Results relate while the work is and liable to the performance.

Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager

Page 11 of 26



# 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		
	10/31/2012 MCA 1A TRUNKLINE NONE GIVEN	10/31/2012Sampling Type:MCA 1A TRUNKLINESampling Condition:NONE GIVENSample Received By:

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

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 (PIL 106 % 89.4-126

Chloride, SM4500Cl-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	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	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-Chlorooctadecane	88.6	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE MOTE: Liability and Damages. Continuit's liability and client's exclusive remedy for any claim artsing, 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 limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be limited to the applicable service. In no event shall Cardinal be liable for incidental or consequential liamages, including, without limitation, business interruptions, loss of use, or loss of profits incurrent by client, its subsidiaries, arilliates or successors arising out of or related to the performance of the services hereunder by Cardinal, negarities 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 web written approval of Cardinal Laboratories.

Celeg & 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:	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 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, 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						

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Diamages. Clardinal's liability and client's exclusive remedy for any claim arising, whether based in curbract or turt, shall be limited to the anount paid by client for analyses. All claims, including those for negligence and any other cause whiteoever shall be detined walved unless made in writing and received by Cardinal within thinty (30) days after completion of the applicable service. In no event shall be limited to the modernal be lieble for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its sublicitantes, artillates 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.

Celey D. Keine

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 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 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					

Children Strabours	nig	A g	Pulotyac	o by, me					
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	1					
Surrogate: 1-Chlorooctadecane	81.9	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PEAGE NOTE: Liability and Damages. Continat's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyzes. All claims, indusing lince for negligence and any often cause whatsoever shall be deened waved unless made in writing and necelved by Cardinal within thinty (30) days after completion of the applicable service. In no event shall Cardinal be limited to the service shall be deened waved unless made in writing and necelved by Cardinal within thinty (30) days after completion of the applicable service. In no event shall Cardinal be limited to consequential damages, induding, without limitations, business interruptions, loss of use, or loss of profits vicurest by client, its subsidiaries, artillates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 14 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 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 %	6 89.4-12	6						
Chloride, SM4500CI-B	ma/	kn	Analyze	d By: HM					

Chioride, SM4500CI-B	mg/	ĸg	Analyze	а ву: мм					
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						

Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dails ansing, whether based in contract or tort, shall be limited to the ansunt paid by client. For analyses, All claims, including those for negligence and any other cause whatsoever shall be deemed valved unleas mode in writing and received by Cardinal's Mithin thinty (30) gays after cause whatsoever shall be service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of used or there applicable above. This record thall be subsciential or consequential damages, including subscienting and of use and you be subscienting and of use of use, or loss of use, or loss of use and used upon any of the above stated reasons or charves. Results related by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or charves. Results related on the implicibility cardinal above. This report shall not be reproduced except in hult with write specific above.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 15 of 26



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

# 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/l	cg	Analyze	d By: MS	_		12.	_	
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 65.2-14	9						
Surrogate: 1-Chlorooctadecane	81.9 %	6 63.6-15-	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinati's liability and client's exclusive remedy for any daim aniang, whether based in contract or tort, shall be liabted to the annount paid by dient for analyses. All claims, inducing troose for negligence and any other case whistoever shall be deemed waived unless made in writing and recoved by Cardinal which thirty (20) days after completion of the supplicable service. In no event shall Cardinal be liable for incidential arrospecial damages, inducing, without immation, business interruptions, loss of uncidential are consequential damages, inducing without any of the above statistic reasons or there was Results relate value dentity to the samples identified above. This report shall not encropted except in full with written approval of Cardinal Laboratories.

Celey D. Keine

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 - 15' BGS (H202535-16)

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*	0.246	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 %	89.4-120	6						
Chloride, SM4500Cl-B	mg/l	g	Analyze	d 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	Qualifie
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	0						
Surrogate: I-Chlorooctadecane	87.1 %	63.6-15-	1						

Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinal's liability and clerct's exclusive remedy for any claim anising, whether based in contract or tort, shall be limited to the annount paid by clerct for annyheas. All claims, including those for negligence and any other cause whatsoever shall be deemed valued unless made in weiting and received by Cardinal within thinty (20) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential cardinals, which is substantian, affiliates of successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims be involved to any of the above stated reasons or otherwase. Results related to whom the samples identified above. This report shall not be reproduced except in full with written granyworld of Cardinal Laboratories.

Celey & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 17 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 2 - 20' BGS (H202535-17)

BTEX 8021B	mg/kg		Analyzed By: AP					5-04	
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	6.00	14.9	

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recov	% Recovery	ry 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						

Cardinal Laboratories

childe cutatooni n

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and dient's exclusive remedy for any claim ansing, whether based in contract or torit, 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 valued unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be dianted for incidental or torsequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its aubidiaries, atfiliates or successors ansing out of br related to the performance of the services hereinder by Cardinal, regardless of whicher such claim is based upon any of the allowe 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.

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

10/16/2012
Soil
Cool & Intact
Jodi Henson

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

. .

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*	0.052	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	6.00	14.9	

Chionde, SM4500CI-8	mg	/kg	Analyze	d 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	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	
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						

Cardinal Laboratories

chievide chiefood p

\*=Accredited Analyte

PLASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim 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 whotsoever shall be deemed waived inters male in writing and recovered by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or tomaques, 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 tamples identified above. This report shall not be reproduced except in full with writen approval of Cardinal Laborateries.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 19 of 26



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

#### 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	g	Analyze	d By: AP	_		_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2012	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 %	89.4-12	6						
Chloride, SM4500Cl-B	mg/l	g	Analyze	d 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	g	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	65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.7 %	63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

REASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dalin arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, indualing linose for negligence and any other cause whatsoever shall be deemed volved unless made in writing and received by Cardinal web's 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 profits incurred by client, its subsidiaries, affiliates or successors arising out of or industed to the performance of the services hereinder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or othewses. Results relate only to the amples identified above. This report shall not be reproduced except in hull weth verifient approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 20 of 26



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	(g	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 %	89.4-12	6						
Chloride, SM4500Cl-8	mg/l	cg	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/l	g	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	9						
Surrogate: 1-Chlorooctadecane	92.9 9	63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

REASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim larising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, induding tiose for negligence and any other cause whittosever shall be deemed valved unless made in writing and received by client, this statisticanes, industry (30) days, after completion of the applicable service. In no event shall be liable for incidental or consequential damages, industry, whow kinetics interruptions, loss of use, or loss of profiles incurred by client, its statisticanes, affiliates or successions anising out of brindlated to the performance of the services hereunder by Cardinal, regardless of whether such clients based uppn any of the above stated reasons or otherwise. Resulta relate neitor end to the samples identified above. This statisticanes, influence in reproduced except in full with written approval of Cardinal Liberatives.

Celey D. 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

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		
	10/31/2012 MCA 1A TRUNKLINE NONE GIVEN	10/31/2012Sampling Type:MCA 1A TRUNKLINESampling Condition:NONE GIVENSample Received By:

#### 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	
DR0 >C10-C28	626	10.0	10/19/2012	ND	176	87.9	200	0.0370	

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be finited to the amount paid by client for analyses. All claims, including tinue tor negligence and any other cause whatsoever shall be finited to the amount paid by client for analyses. All claims, including tinue tor negligence and any other cause whatsoever shall be disensed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be disensed in any other stated reasons, loss of use, or leas of profits incurrent by client, its subilidaries, aritiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whither such claim is based upon any of the show 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 Leboratories.

Celey & Keine

77.4%

86.2 %

65.2-140

63.6-154

Celey D. Keene, Lab Director/Quality Manager

Page 22 of 26



#### 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.
Q. 1	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

PLEASE NOTE: Liability and Damages. Curdinal's liability and client's exclusive remedy for any daim 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 profils incurred by client, its subsidiaries, afflictes 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.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 23 of 26

## CARDINAL Laboratories

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

Company Name	(575) 393-2326 FAX (575) 393	BILL TO				ANALYSIS REQUEST							
Project Manage	" JUSTIN RUBERTS		P.O. #:										T
Address: P.	ddress: P.U. Box 2491		Company:		1								
City: 1fobh	S State:	M Zip: 88241	Attn:										
Phone #: 575	-312-9996 Fax # 5	75-312-1376	Address:		1								
Project #	VIA Project O	Unar CAPI	City:		1					1.00			
Project Name:	MLA IA TRUNK	LINE	State:	Zip:				1					
Project Locatio	MLA ZA TRUNK MALJAMAR JUSTIN ROBERT		Phone #:										
Sampler Name:	IUSTIN ROBERT	r	Fax #:		1								
FOR LAB USE DNLY	and the second se	MATRIX	PRESERV	SAMPLING	1								
		CIWO &			12	X							
		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	1.1.1.1		A	2							1
Lab I.D.	Sample I.D.	AIN AIN WOW	SOI SOI		I	ŝ							
10005.00		P # CONTAINERS F # CONTAINERS GROUNDWATE WASTEWATER VASTEWATER OIL	SLUDGE OTHER . ACIDIBASE ICE / COOL		1	1	9						1
H207535	and stored	IGJR GRO GRO WAS WAS VIAS	SIL SIL	DATE TIME	-								1
	551-5B65	G1 X		10-16-12 9:30	X	F	X						
2	SSI- 10 BGS	1111-×		11 9:40	X	×	X				_		
3	551- 13 1343			11 9:46	Y	×	Y			_	. 1		
N	551 - 20 1247	111 2		1.24	X	Y	Y						
5	151- 35 0G1			11 9:53	13	¥	¥						
6	CCC HURCH		-	1.24	X	Y		-		-	-		
45	ICL EN RES			11 10:04	X	×	V V	-			-		
4	141. 10' 145			1. 10:14	14	×	X	1 -	1 1				1.0
ie	151-20' 265			14 14:24	1	V	V						
LEASE NOTE: LINDAY	of Decrayors. Caroline's lability and corol's each size remains	White the weat of the succession	Par - Int Softh Inited	in the united types to the short!	11	×	7				_		1
reise. Is no count shall C	is trace for registeries and any other cases underevent and set in the termedental or connequential cases you, a	Milit de l'anni vel asires mais con la g Milità de 15 an 1990 - Ser 1995 etter que	and was would Calenat mailtenint was priorited and	alter a Modaw der sonst star ge 1966 - Station by Control Station	tarapiter Max	40							
Relinquished B	V; Date 1/	Beceived By:	BILL BARREN PERSON PERSON	Phone Re	esult:	T. Yes	5 T. No	Add'I	Phone #				
4.11	WI Time	19/noli	MALIA	ELIA Fax Resu	alt:	TJ Yes			Fax #:				
JUY!	10	5 LANC &	JULIU	ON CONTRACTION									
Relinquished B	y: Date:	Received By:											
	Time:												
Delivered By	: (Circle One)	Sample Con											
		Cool /intac	t (Inii	tals)									

† 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: DIAMONSHER DISPUSAT SAV. INC	BILL TO	ANALYS	SIS REQUEST
Company Name: DiAmondback Dispusal SAV. INC Project Manager: Justin RubEats	P.O. #:		
Address: P.O. Box 2491	Company:		
city: 1706/15 State: NM Zip: 88241	Attn:		
hone #: 575-312-9996 Fax #: 575-312-9374	Address:		
Project #: N/A Project Owner: COPC	City:		
Project Name: MCA IA TRUNA LINE	State: Zip:		
Project Location: MAJJAMAR Sampler Name: Justin RebERts	Phone #:		
Sampler Name: Justin RebERts	Fax #:		
FOR LAB USE DNI Y MATRIX	PRESERV SAMPLING		
rive a		IX	
Lab I.D. Sample I.D. CONTAINERS		ART	
Lab I.D. Sample I.D. Sample I.D. H207535	VSE VSE	100	
# CONT SOIL OIL	MILL ALAN		
11 531- 80 843	Y 10:16-12 10:36	XXX	
13 551 - 100 865	× 10:52		
141552- 5' 865	× 1 11:01 × 1 11:13	XXX	
151552-10' B65	Y ' 11:20	X X X	
16552-15 B65	1 11:25	XXX	
171552-20'B65	1 11:28	XXX	
1852-25'B65 111 Y	¥ 1:34	X X X	
19 552-30'B65	1 11:36	XXX	
20552-40 BGS NV X	1 1 11:39	XXX	

Relinquished By:	10/12/12 Received By: Time: 35 Wodi Alenson	Phone Result Fax Result: REMARKS	Yes Yes	C No C No	Add'l Phone #: Add'l Fax #:
Relinguished By:	Date: Reforved By:				
Delivered By: (Circle One)	Sample Condition CHECKED BY:				
Sampler - UPS - Bus - Other:	Cool Intact (Initians)				

#26

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

Page 25 of 26

# Laboratories

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

BILL TO	ANALYSIS REQUEST
P.O. #:	
Company:	
Attn:	
Address:	
Fax #:	
RIX PRESERV. SAMPLING	
	ARI
A SASE	NGO
- r 101012 11:44	1 4 4 <u>4</u>
service in the same to be shown to a sub-	of Der the
	P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #: RIX PRESERV SAMPLING UCOD 12 SAMPLING DATE TIME /0-14-12 //:94

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 %	% 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	65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.2	63.6-15	4						

#### **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 whatscever 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 whother this subsidiaries, affiliates or successor 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.

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 %	% 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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.5 % 63.6-154		4						

#### 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 whatscever 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 whother this subsidiaries, affiliates or successor 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.

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	65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.1	63.6-15	4						

#### **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 whatscever 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 whother this subsidiaries, affiliates or successor 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.

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

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 sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

ompany Name: RECS	3-2326 FAX (505) 393-24							1.3		E	314	170	e harrer e	ANALYSIS REQUEST								_			
oject Manager: KyleN	NMD							P.0	. #:		-														
ddress:								Cor	mpa	ny:								S							
ty: Hobbs	State: NM	Zip:	88	240				Attn:										jo							
hone #:	Fax #:							Add	dres	ss:										An					
oject#:	Project Owner	:						City	y:					0	Σ		I	s/							
								Sta	te:		;	Zlp:		le	<b>FPH 8015 M</b>	×	Texas TPH	Cations/Anions	10						
Project Name: CopmCAIA Trunkline							Ph	one	#:				Chlorides	Ô	BTEX	S	ati	TDS							
ampler Name: Ampley	Gomes								c #:					글	T	B	Xa		-						
OR LAB USE ONLY	0.00-5			-	MA	ATRI	X		PRE	ESE	RV.	SAMPLI	NG	0	d		1 H	ete			1.1				
H40185D SB20	Sample I.D. 255ft 245ft 215ft	COC COMP	+ + # CONTAINERS	GROUNDWATER		1	SLUDGE	OTHER:	ACID/BASE:		OTHER:	DATE (518-14 (518-14 (518-14	1D:10	√ √ √	V V V	> >>		Complete							
alware All claims includion those for negli	Indinat's liability and client's exclusive remedy for gence and any other cause whatsoever shall be for incidental or consequential damages, include to the performance of services hereunder Date: Date:	rg witho Cardina	ecei		By:		and a second	. Incom	al una	mr los	ee of e	rofits incurred by	Phone R Fax Resi REMARK email	result: KS:		-ecs	No No	Add'	Phone # Fax #:	rice-ecs	s.com; swd.com				

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 Gro White Drill		SB-2 SS-2 © 34		RIC		CS
Drilling Method:	Air Rotar	у	- HA 2	Pro	oject Name	:	Well ID:
Start Date:	6/18/201	4	SS 1	(	CoP MCA 1	A Heade	er SB-2
End Date:	6/18/201		AC	Pro	oject Consu	ultant: F	RECS
Comments: All s	amples were	taken	from cuttings.	Lo		′L G Seo -17-S R	
тг	<b>DR</b> D = 75'	AFTED B	8 <b>Y:</b> C. Uršanić GW = 95' - 105'		t: 32°48'24.9 <b>ng:</b> 103°48'1	926"N	County:Lea
Depth Chlor	ide	PID	Description		Lithology		/ell Construction
(feet)       field term         SS			RED SAND				Bentonite Seal

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



## WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) SB-2 WELL OWNER NAME(S) Conoco Phillips WELL OWNER MAILING ADDRESS HC 60, Box 66 WELL LOCATION (FROM GPS) LATITUDE 103 48 24.85 N LONGITUDE 103 48 10.00 W DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, T MCA I Trunk Line								OSE FILE NUMBER(S) PHONE (OPTIONAL) CITY STATE ZIP Lovington NM 88260 * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84 FOWNSHJIP, RANGE) WHERE AVAILABLE			
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1456 DRILLING STARTED 06/18/2014 ( COMPLETED WELL IS:			NAME OF LICENSED DRILLER John W. White DRILLING ENDED 6/18/2014 C ARTESIAN C DRY HOLE C SHAI			75.0	LE DEPTH (FT)	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 bg FROM TO		p: C ROTARY gl) BORE HOLE		MUD     ADDITIVES - SPI       HAMMER     CABLE TOOL       CASING MATERIAL AND/OR GRADE       (include each casing string, and note sections of screen)		CASING CONNECTION TYPE		CASING INSIDE DIAM. (inches) (inches)		SLOT SIZE (inches)	
2. DRILL												
3. ANNULAR MATERIAL	DEPTH (feet bgl)     BORE HOLE DIAM. (inches)       FROM     TO       0.0     75.0       6.0       1			DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AN GRAVEL PACK SIZE-RANGE BY INTER Type 2 Portland Cement w/5% Bentonit			RVAL	AMOUNT (cubic feet) METHOD OF PLACEMENT 14.7225 Pump Mix w/tre		1ENT	
FILE	OSE INTER NUMBER ATION	NAL U	ISE	1	1	POD NUMBER		-	I 0 WELL RECORD & NUMBER	& LOG (Version 06/0		

## 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