Sharps 3 Fed Com #2H

(Located in Section-3 Township 20S Range 29E)

Site Closure Plan

Presented to:

Mewbourne Oil Company 701 S. Cecil Hobbs, NM 88241

Prepared By:

Diamondback Disposal Services, Inc. PO Box 2491 Hobbs, NM 88241



DISPOSAL SERVICES, INC. P.O. Box 2491•Hobbs, NM 88241 Ph: (575) 392-9996•Fx: (575) 392-9376

October 7, 2015

Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241

Re: Sharps 3 Federal Com #2H Battery

Dear Mr. Thomas,

Diamondback Disposal Services, Inc. (Diamondback) would like to take this time to thank you and Mewbourne Oil for the opportunity to be of service in the remediation of the above-mentioned site. Please find in the following closure report: the job overview, Remediation Activities, laboratory analysis, and site map of the project.

Note: Diamondback Disposal Services, Inc., (Diamondback) with offices at 2525 N. West County Road, Hobbs, New Mexico 88241 (the Company), has prepared this "Remediation Report" for the Sharps 3 Federal Com #2H, to the best of its ability. No warranty, expressed or implied, is made or intended. The report was prepared for Mewbourne Oil Company, which offices at 701 S. Cecil Hobbs, NM 88241 (the Client). All information disclosed in this plan is for internal purposes only and is considered confidential. By accepting this document, the recipient agrees to keep confidential the information contained herein. The recipient further agrees not to copy, reproduce or distribute to any third party this project plan in whole or in part, without express written permission from the Company or Client.

Once again if there is anything that Diamondback can be of assistance with, or if you have any questions, or need more data in regards to this project please call us at any time.

Sincerely

Justin Roberts President Diamondback Disposal Services, Inc.

Introduction

This report presents the results of remediation activities at the Sharps 3 Federal Com #2H Battery. The site is located in the Southeast Quarter of Section 3, Township 20S, Range 29E in Eddy County, New Mexico. Impacted areas are owned by Bureau of Land Management. Diamondback Disposal Services, Inc. (Diamondback) was contacted June 3, 2015 by Mr. Zach Thomas, of Mewbourne Oil Company, to perform the remediation activities at the spill site. The remediation was performed in general accordance with the industry standards and BLM rules and regulations. The following sections present: an overview, remediation activities, and recommendations of all remediation work performed on site.

Overview

The spill site is located mostly on Mewbourne location with a little ponding on federal land consisting of good grass, prairie, or range lands. Approximately 190 bbls of total fluids were lost due to lightning striking the heater treater, causing it to explode and draining all fluids. Of the lost fluids, approximately 100 bbls of produced water and 80 bbls of oil were recovered from the use of a vacuum truck. Approximately 48,000 square feet of location was impacted as well as, 10,000 square feet of pasture land. The depth to groundwater in the area is estimated to be greater than 150' below ground surface (BGS) based on the information, reviewed at the State Engineers web site. There were no water courses affected, no water wells within 1,000 feet, and no surface water bodies within 1,000 feet of the site, giving this site a ranking criteria score of zero. The potential contaminates of concern are mid to high-level concentrations of petroleum-based hydrocarbons and chlorides that were lost due to production equipment failures.

Remediation Activities

On June 5, 2015 Diamondback began excavating impacted areas on location, defined by ground staining and ponding. The excavation is approximately 6 inches in depth on the location where a sand layer was encountered. Approximately 300 cy of impacted soils have been excavated and transported to R-360's NMOCD approved facility. On September 22, 2015 five point composite samples were taken on the East and West sides of the location to determine if acceptable impaction levels had been met (see analytical and site map) Diamondback was then contacted Mr. Zach Thomas to delineate un-excavated area off location. Grab samples of four different test holes were collected at surface, 6" bgs, and 2' bgs (see attached map), packaged and sent to Cardinal Laboratory (with COC) for analysis of TPH, BTEX, and Chlorides (see analytical).

Recommendations

Upon reviewing the analytical provided by the third party independent lab, it is our belief the impacted area on the location has been excavated down to acceptable closure limits, and contaminants in the pasture area show to significantly reduce between surface and 6" bgs. Diamondback proposes to excavate stained area approximately 6 inches in depth, generating approximately 200 cy of material to be transported to R-360 for disposal. Diamondback feels once impacted area has been excavated, all regulatory limits stated in the guidelines for remediation of leaks and spills will have been met. This being said we propose to backfill the excavated area with clean granular soil, contour and crown, and seed area to promote vegetation growth. Diamondback feels this method will significantly reduce migration of impacted material through the vadose zone therefore leaving the site in a manner that will pose very little if any future environmental threat.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Attached

Form C-141

Revised August 8, 2011

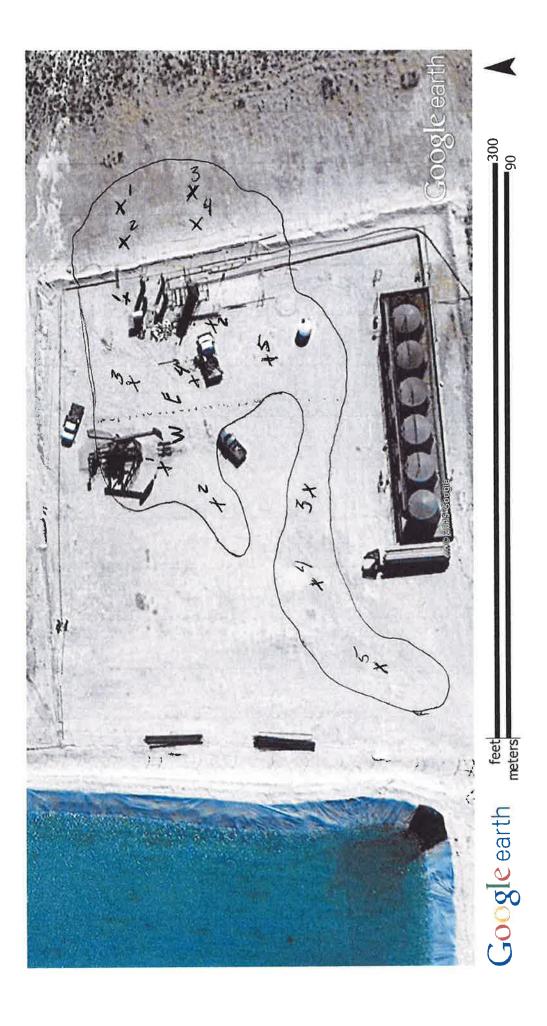
Oil Conservation Division 1220 South St. Francis Dr.

1220 S. St. Fran	cis Dr., Saint	a re, inivi 8/30.	,	Sa	ınta F	e, NM 875	05					
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						OPERA	ΓOR		Initia	l Report	\boxtimes	Final Repor
Name of Co	mpany: M	Iewbourne C	il Compa	any		Contact: Za	ck Thomas					
		0 Hobbs NM				Telephone N	No. 575-393-590	05				
Facility Nar	ne: Sharps	3 Fed Com	#2H Batt	tery		Facility Typ	e: Producing O	il Well				
Surface Ow	ner: RI M			Mineral C	lunari	RI M			ADI No	. 30-015-3	0822	
Surface Ow	iici. DLivi							_	AFINO	. 30-013-3	9022	
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Was Immedia	ate Notice (Yes	No Not Re	equired	If YES, To Jim Amos	Whom?					
By Whom? Z						Date and H	Iour 6-3-15	9:30 am				
Was a Water	course Read		Yes 🗵	No		If YES, Vo	olume Impacting t	he Wate	ercourse.			
If a Watercou	irse was Im	pacted, Descr	ibe Fully.*	k								
Describe Cau	se of Proble	em and Reme	dial Action	n Taken.*								
Lightning str	uck heater t	reater causing	it to expl	ode consequently	drainin	g all fluid. Al	l wells associated	l with th	is battery w	ere shut in		
Describe Are	a Affected	and Cleanup A	Action Tak	en.*						_		
was used to re October 7, 20	ecover 180 015.	bbls total flui	d off the p	l as well as an esti ad surface. No st	anding	fluid off the p	ad. For all remed	liation a	ctivities refe	erence Site	Closur	e Plan dated
regulations al public health should their o	l operators or the envir operations h nment. In a	are required to ronment. The ave failed to a ddition, NMC	o report ar acceptance adequately OCD accep	e is true and comp ad/or file certain r tee of a C-141 repo investigate and r stance of a C-141	elease roort by the emedian	notifications and NMOCD mate contaminati	nd perform correct arked as "Final Roon that pose a thre	tive acti eport" d eat to gr	ons for rele oes not relic ound water,	ases which eve the ope , surface w	may en rator of ater, hu	ndanger f liability ıman health
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Printed Name	Zack Tho	mas				Approved by	Environmental S	pecialist	:			
Title: Enviror	nmental Rep	p.				Approval Dat	e:	H	Expiration I	Date:		
E-mail Addre	ss: zthomas	s@mewbourn	e.com			Conditions of	Approval:			Attackas		

Phone: 575-602-2188

Date: 10-7-15

^{*} Attach Additional Sheets If Necessary





September 28, 2015

BRANDON PRICE

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: SHARPS FED #3

Enclosed are the results of analyses for samples received by the laboratory on 09/22/15 13:38.

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

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.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



DIAMONDBACK DISPOSAL SERVICE INC. **BRANDON PRICE** P. O. BOX 2491 HOBBS NM, 88241

Fax To:

(575) 392-9376

Received:

09/22/2015

Sampling Date:

09/21/2015

Reported:

09/28/2015

Sampling Type:

Soil

Project Name:

SHARPS FED #3

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

EDDY CO, NM

Sample Received By:

Jodi Henson

Sample ID: CONFIRMATION EAST (H502494-01)

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	09/24/2015	ND	2.01	100	2.00	0.972	
Toluene*	<0.050	0.050	09/24/2015	ND	1.72	86.1	2.00	2.19	
Ethylbenzene*	<0.050	0.050	09/24/2015	ND	1.62	80.8	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/24/2015	ND	5.09	84.9	6.00	1.94	
Total BTEX	<0.300	0.300	09/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	17						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/23/2015	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2015	ND	174	87.1	200	3.66	
DRO >C10-C28	<10.0	10.0	09/24/2015	ND	192	95.8	200	6.90	
Surrogate: 1-Chlorooctane	70.3	% 47.2-15	57						
Surrogate: 1-Chlorooctadecane	76.7	% 52.1-17	76						

Cardinal Laboratories

*=Accredited Analyte

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

Celeg Titrena



DIAMONDBACK DISPOSAL SERVICE INC. BRANDON PRICE P. O. BOX 2491 HOBBS NM, 88241

Fax To: (575) 392-9376

Received:

09/22/2015

Sampling Date:

09/21/2015

Reported:

09/22/2015

Sampling Type: Sampling Condition: Soil Cool & Intact

Project Name: Project Number: SHARPS FED #3 NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY CO, NM

Sample ID: CONFIRMATION WEST (H502494-02)

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	09/24/2015	ND	2.01	100	2.00	0.972	
Toluene*	<0.050	0.050	09/24/2015	ND	1.72	86.1	2.00	2.19	
Ethylbenzene*	<0.050	0.050	09/24/2015	ND	1.62	80.8	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/24/2015	ND	5,09	84.9	6.00	1.94	
Total BTEX	<0.300	0.300	09/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/23/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2015	ND	174	87.1	200	3.66	
DRO >C10-C28	<10.0	10.0	09/24/2015	ND	192	95.8	200	6.90	
Surrogate: 1-Chlorooctane	66.0 %	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	70.0 9	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg V. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg Z. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

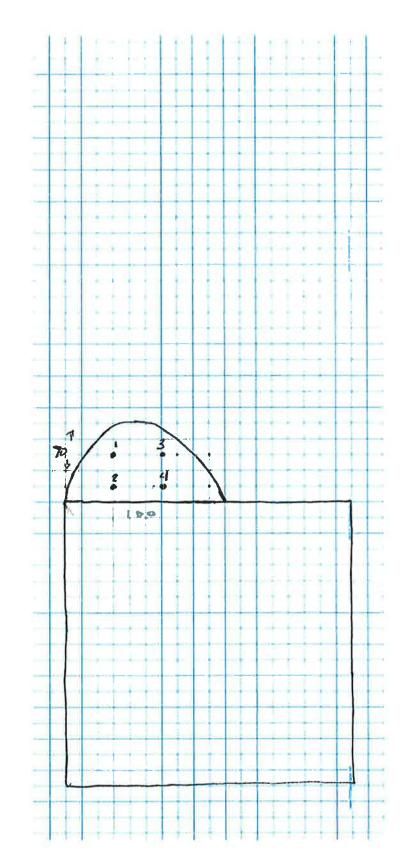
101 East Mariand, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	BILL TO	ANALYSIS REQUEST	EST
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1995 Signal Sign	Company:		
State: NMZip: 8874/	Attn:		
\$52-9996	Address:		
Project Owner: MTW boy CANC	City:		
ame: Shandas fed	State: Zip:		
riginal position.	Phone #:		
Project Location.	1	<u></u>	
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Time:			
Delivered By: (Circle One) Sample Condition	dition CHECKED D		
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Diamondback Location Plat

2
3
rec
GCD5
7
Name:
sli/Facility

Date: 7-29 - 15





July 07, 2015

BRANDON PRICE
DIAMONDBACK DISPOSAL SERVICE INC.
P. O. BOX 2491
HOBBS, NM 88241

RE: SHARP 3

Enclosed are the results of analyses for samples received by the laboratory on 07/02/15 8:50.

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

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.

Lope S. Moreno

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,

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager



DIAMONDBACK DISPOSAL SERVICE INC. **BRANDON PRICE** P. O. BOX 2491 **HOBBS NM, 88241**

Fax To: (575) 392-9376

Received:

07/02/2015

Sampling Date:

06/30/2015

Reported:

07/07/2015

Sampling Type:

Soil

Project Name:

SHARP 3

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MEWBOURNE OIL CO.

Sample ID: #1 SURFACE (H501701-01)

BTEX 8021B	mg/	kg	Analyze	d By; MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0,964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	110 %	6 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/06/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	415	10.0	07/06/2015	ND	221	110	200	6.77	
Surrogate: 1-Chlorooctane	91.79	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.6 %	6 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Abpe S. Moreno



DIAMONDBACK DISPOSAL SERVICE INC. BRANDON PRICE P. O. BOX 2491 HOBBS NM, 88241

Fax To: (575) 392-9376

Received:

07/02/2015

Sampling Date:

06/30/2015

Reported:

07/07/2015

Sampling Type:

Soil

Project Name:

SHARP 3

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Number:
Project Location:

MEWBOURNE OIL CO.

Sample ID: #1 6" BGS (H501701-02)

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	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0,401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92,2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	61-154	•						
Chloride, SM4500CI-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	07/06/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10	<10.0	10.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	<10.0	10.0	07/06/2015	ND	221	110	200	6.77	
Surrogate: 1-Chlorooctane	92.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	93.6	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usability and Damages. Candinal's liability and clients 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 these for negligence and any other cause whatsoever shall be deemed waived uriess made in withing and received by Cardinal within thirty (30) days after competion of the applicable services. In no event shall Cardinal be label for incidental or consequential damages, methods imitation, bushness inferruptions, loss of use, or loss of profits incurred by client, its subsidiaries, aviilables or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to be succession arising out of or provided to the performance of the services hereunder by Cardinal, regardless of whether such claims to be succession arising out of or provided to the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided in the performance of the services hereunder by Cardinal provided by Cardinal provided in the performance of the services hereunder by Cardinal provided by

Abpe S. Morano



DIAMONDBACK DISPOSAL SERVICE INC. BRANDON PRICE P. O. BOX 2491 HOBBS NM, 88241

Fax To: (575) 392-9376

Received:

07/02/2015

Sampling Date:

06/30/2015

Reported:

07/07/2015

Sampling Type:

Soil

Project Name:

SHARP 3

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MEWBOURNE OIL CO.

Sample ID: #1 2FT BGS (H501701-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92,2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL)	110 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/06/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	<10.0	10.0	07/06/2015	ND	221	110	200	6.77	
Surrogate: 1-Chlorooctane	92.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	92.2	% 52.1-17	6						

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Received: Reported: 07/02/2015

07/07/2015

Project Name:

SHARP 3

NONE GIVEN

Project Number: Project Location:

MEWBOURNE OIL CO.

Sampling Date:

06/30/2015

Sampling Type:

Soll

Sampling Condition: Sample Received By: ** (See Notes)

Jodi Henson

Sample ID: #2 SURFACE (H501701-04)

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	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 61-154				_			
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride	720	16.0	07/06/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	2020	10.0	07/06/2015	ND	221	110	200	6.77	
Surrogate: 1-Chlorooctane	91.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.2	% 52.1-17	5						

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Sampling Type:

Soil

Project Name:

SHARP 3

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MEWBOURNE OIL CO.

Sample ID: 2 6" BGS (H501701-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP				- 10	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	07/06/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	<10.0	10.0	07/06/2015	ND	221	110	200	6.77	
Surrogate: I-Chlorooctane	92,6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.7	% 52.1-17	6						

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Sampling Type:

Soll

Project Name:

SHARP 3

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MEWBOURNE OIL CO.

Sample ID: 2 2FT BGS (H501701-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifle
Benzene*	<0.050	0.050	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	112 %	61-154	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	96.0	16.0	07/06/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	220	10.0	07/06/2015	ND	221	110	200	6.77	
Surrogate: 1-Chlorooctane	91.99	6 47.2-15	7						
Surrogate: I-Chlorooctadecane	98.2 9	6 52.1-17	6						

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Sampling Type:

Soll

Project Name:

SHARP 3

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Number: Project Location:

MEWBOURNE OIL CO.

Sample ID: 3 SURFACE (H501701-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	2480	16.0	07/06/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<50.0	50.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	6510	50.0	07/06/2015	ND	221	110	200	6.77	
Surrogate: 1-Chlorooctane	96.1 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	171 9	6 52.1-17	6						

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BTEV SO21B

07/07/2015

Sampling Type:

Soil

Project Name:

SHARP 3

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

ma/ka

Sample Received By:

Jodi Henson

Project Location:

MEWBOURNE OIL CO.

Sample ID: 3 6" BGS (H501701-08)

BTEX 8021B	mg/	kg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0,150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	6 61-154							
Chloride, SM4500Ci-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/06/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10,0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	<10.0	10.0	07/06/2015	ND	221	110	200	6.77	
Surrogate: 1-Chlorooctane	101 %	6 47.2-15	7					_	
Surrogate: 1-Chlorooctadecane	98.5 9	6 52.1-17	6						

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Sampling Type:

Soil

Project Name:

SHARP 3

Sampling Condition:

** (See Notes)

NONE GIVEN

Sample Received By:

Jodi Henson

Project Number: Project Location:

MEWBOURNE OIL CO.

Sample ID: 3 2FT BGS (H501701-09)

BTEX 6021B	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	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 61-154							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/06/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/06/2015	ND	200	99,9	200	1.48	
DRO >C10-C28	<10.0	10.0	07/06/2015	ND	221	110	200	6.77	
Surrogate: 1-Chlorooctane	97.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	97.6	6 52.1-17	6						

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Sampling Type:

Soll

Project Name:

SHARP 3

Sampling Condition:

** (See Notes)

Project Number: Project Location: NONE GIVEN MEWBOURNE OIL CO. Sample Received By:

Jodi Henson

Sample ID: #4 SURFACE (H501701-10)

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	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	6 61-154							
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	07/06/2015	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	Qualifler
GRO C6-C10	<10.0	10.0	07/06/2015	ND	200	99.9	200	1.48	
DRO >C10-C28	2760	10.0	07/06/2015	ND	221	110	200	6.77	
Surrogate: 1-Chlorooctane	94.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	111 %	6 <i>52.1-17</i>	6						

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Sampling Type:

Soil

Project Name:

SHARP 3

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MEWBOURNE OIL CO.

Sample ID: #4 6" BGS (H501701-11)

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	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	111 %	6 61-154				ii.			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/06/2015	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	07/06/2015	ND	197	98.6	200	3.89	
DRO >C10-C28	<10.0	10.0	07/06/2015	ND	206	103	200	3.95	
Surrogate: 1-Chlorooctane	101 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	106 9	6 52.I-17	6						

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Reported:

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Project Name:

SHARP 3

Sampling Type: Sampling Condition:

Soil ** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

MEWBOURNE OIL CO.

Sample ID: #4 2FT BGS (H501701-12)

BTEX 80216	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/06/2015	ND	2.16	108	2.00	0.912	
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
Total BTEX	<0.300	0.300	07/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 61-154							
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	07/06/2015	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	Qualifie
GRO C6-C10	<10.0	10.0	07/06/2015	ND	197	98.6	200	3.89	
DRO >C10-C28	10.8	10.0	07/06/2015	ND	206	103	200	3.95	
Surrogale: 1-Chlorooctane	89.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	72.9	% 52.1-17	6						

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Phone Result: (1) Yes (1) No Add'l Phone #:
Fax Result: (1) Yes (1) No Add'l Fax #:
REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 397.2326

Sampler - UPS - Bus - Other: