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

State of New Mexico By OCD District 1 at 12:01 pm, Aug 13, 2015

Lease No.

Energy Minerals and Natural Re Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

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

NMNM97153

# **Release Notification and Corrective Action**

		OPERATOR	R	Initial Report	$\boxtimes$	Final Report
Name of Company	BTA Oil Producers	Contact	Pam Inskeep			
Address	104 S. Pecos, Midland, TX 79701	Telephone No.	(432) 682-3753			
Facility Name	9418 JV-P Vaca Draw Battery	Facility Type	Tank Battery			
						_

Surface Owner USA

# LOCATION OF RELEASE

Mineral Owner

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	10	255	33E	190	North	330	East	Lea

# NATURE OF RELEASE

Type of Release Minor	Volume of Release 45 bbl oil Volume Recovered 40 bbl oil
Source of Release dump valve malfunction	Date and Hour of Occurrence early morning 6/20/15Date and Hour of Discovery 1 pm 6 20/15
Was Immediate Notice Given?	If YES, To Whom? Tomas Oberding – NMOCD Jim Amos, BLM
By Whom? Pam Inskeep	Date and Hour 5:30 p.m. CDT, 06/20/15
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
If a Watercourse was Impacted, Describe Fully.*	
N/A	
Describe Cause of Problem and Remedial Action Taken.*	
BTA. The cut out dump valve malfunctioned and released oil into the c battery. It was originally thought that all of the fluid remained in the co and sample the soil. Note: The battery is located at the #2H well site –	rived at the battery location and discovered a release. He immediately contacted containment. All fluid possible was vacuumed up and returned to a tank at the ntainment. However, some fluid got under the polyurea floor. We will cut there - API 30-025-41621. ed) and sampled soil (analyses attached). All sample sites are within
Describe Area Affected and Cleanup Action Taken.*	
See above explanation	<b>APPROVED</b> By OCD District 1 at 12:01 pm, Aug 13, 2015
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedi	the best of my knowledge and understand that pursuant to NMOCD rules and notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability ate contamination that pose a threat to ground water, surface water, human health does not relieve the operator of responsibility for compliance with any other
	OIL CONSERVATION DIVISION
Signature: Ham Mallap	A. \$11
Printed Name: Pam Inskeep	Approved by District Supervisor:
Printed Name:     Pam Inskeep       Title:     Regulatory Administrator	Approved by District Supervisor: / // Approval Date: 08/13/2015 Expiration Date:/// Geotagged photos of remediation required.

Conditions of Approval:

08/07/2015 Phone: (432) 682-3753 Date: \* Attach Additional Sheets If Necessary

pKJ1518155399

1RP 3705

Attached 🗌

nKJ1518155255





August 03, 2015

TODD ROBERSON

**BTA Oil Producers** 

103 South Pecos

Midland, TX 79701

RE: VACA DRAW CTB

Enclosed are the results of analyses for samples received by the laboratory on 07/31/15 15:52.

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



BTA Oil Producers TODD ROBERSON 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	07/31/2015	Sampling Date:	07/31/2015
Reported:	08/03/2015	Sampling Type:	Soil
Project Name:	VACA DRAW CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

### Sample ID: VD01 (H501997-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.19	1.00	08/03/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	29.4	1.00	08/03/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	4.62	1.00	08/03/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	48.2	3.00	08/03/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	83.3	6.00	08/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 85.6-13	7						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/03/2015	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1670	10.0	08/03/2015	ND	207	103	200	1.74	
DRO >C10-C28	8880	10.0	08/03/2015	ND	179	89.3	200	5.83	
EXT DRO >C28-C35	1220	10.0	08/03/2015	ND					
Surrogate: 1-Chlorooctane	220	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	238	% 52.1-17	16						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers TODD ROBERSON 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	07/31/2015	Sampling Date:	07/31/2015
Reported:	08/03/2015	Sampling Type:	Soil
Project Name:	VACA DRAW CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

### Sample ID: VD02 (H501997-02)

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	08/03/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	<0.050	0.050	08/03/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	<0.050	0.050	08/03/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	<0.150	0.150	08/03/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	<0.300	0.300	08/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	85.6-13	7						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	08/03/2015	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	08/03/2015	ND	207	103	200	1.74	
DRO >C10-C28	<10.0	10.0	08/03/2015	ND	179	89.3	200	5.83	
EXT DRO >C28-C35	<10.0	10.0	08/03/2015	ND					
Surrogate: 1-Chlorooctane	114 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	124	52.1-17	6						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers TODD ROBERSON 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	07/31/2015	Sampling Date:	07/31/2015
Reported:	08/03/2015	Sampling Type:	Soil
Project Name:	VACA DRAW CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

### Sample ID: VD03 (H501997-03)

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	08/03/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	0.073	0.050	08/03/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	<0.050	0.050	08/03/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	0.233	0.150	08/03/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	0.306	0.300	08/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 85.6-13	7						
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	08/03/2015	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	08/03/2015	ND	207	103	200	1.74	
DRO >C10-C28	47.2	10.0	08/03/2015	ND	179	89.3	200	5.83	
EXT DRO >C28-C35	<10.0	10.0	08/03/2015	ND					
Surrogate: 1-Chlorooctane	118	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	120	% 52.1-17	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers TODD ROBERSON 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	07/31/2015	Sampling Date:	07/31/2015
Reported:	08/03/2015	Sampling Type:	Soil
Project Name:	VACA DRAW CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

### Sample ID: VD04 (H501997-04)

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	08/03/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	<0.050	0.050	08/03/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	<0.050	0.050	08/03/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	<0.150	0.150	08/03/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	<0.300	0.300	08/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 85.6-13	7						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	08/03/2015	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	08/03/2015	ND	207	103	200	1.74	
DRO >C10-C28	200	10.0	08/03/2015	ND	179	89.3	200	5.83	
EXT DRO >C28-C35	30.2	10.0	08/03/2015	ND					
Surrogate: 1-Chlorooctane	115 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	138	% 52.1-17	6						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers TODD ROBERSON 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	07/31/2015	Sampling Date:	07/31/2015
Reported:	08/03/2015	Sampling Type:	Soil
Project Name:	VACA DRAW CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

### Sample ID: VD05 (H501997-05)

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	08/03/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	0.997	0.050	08/03/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	1.80	0.050	08/03/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	7.79	0.150	08/03/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	10.6	0.300	08/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/03/2015	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	136	10.0	08/03/2015	ND	207	103	200	1.74	
DRO >C10-C28	862	10.0	08/03/2015	ND	179	89.3	200	5.83	
EXT DRO >C28-C35	130	10.0	08/03/2015	ND					
Surrogate: 1-Chlorooctane	134	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	130	% 52.1-17	6						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers TODD ROBERSON 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	07/31/2015	Sampling Date:	07/31/2015
Reported:	08/03/2015	Sampling Type:	Soil
Project Name:	VACA DRAW CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

### Sample ID: VD06 (H501997-06)

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	08/03/2015	ND	1.98	99.2	2.00	3.64	
Toluene*	0.556	0.050	08/03/2015	ND	2.02	101	2.00	4.60	
Ethylbenzene*	0.342	0.050	08/03/2015	ND	2.17	108	2.00	5.97	
Total Xylenes*	1.38	0.150	08/03/2015	ND	5.68	94.7	6.00	6.65	
Total BTEX	2.28	0.300	08/03/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	131	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2015	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	36.5	10.0	08/03/2015	ND	207	103	200	1.74	
DRO >C10-C28	201	10.0	08/03/2015	ND	179	89.3	200	5.83	
EXT DRO >C28-C35	29.2	10.0	08/03/2015	ND					
Surrogate: 1-Chlorooctane	112	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	118	% 52.1-17	6						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland Wohks NIM 00010

		Image: Cool Intact     Cool Intact     CHECKED BY:       Image: Cool Intact     Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact     Image: Cool Intact       Image: Cool Intact     Image: Cool Intact	Delivered By: (Circle One) Sampler - UPS - Bus - Other:
		B Received By:	Relinquished By:
	REMARKS:	Andra Garcia	Mont Kandelph Time:
Yes No Add'I Phone #: Yes No Add'I Fax #:	Phone Result: Fax Result:	Received By:	Relinquished By: Date:
	ed by client, its subsidiaries, ated reasons or otherwise.	ing vivoe voi rispegance ena ary vivier valae minaccere anal se cereira variero vivare invaria marti invaria ani ocorreo y valoriari varian so uarg ani Cardinal be liable for indenzia or concequental danges, including without finitation, business interruptions, loss ches, or toss of profils incurred se sing out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated re	service. In no events involve in regigence out or yours cause minascere waters unless interior in multiple and incerved by causing multiple and incerved by causing multiple and incerved by causing multiple and incerve and the predent is subscription of the sphere and approace without limitation, basis of the problem incurred by clenck its subscriptions, less of use of less of problem incurred by clenck its subscriptions and the predent is subscriptions of the problem incurred by clenck its subscriptions and the problem incurred by clenck its subscripting and the problem incurred by clenck its subscriptions a
	unt paid by the client for the	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for mediaence and any other raises whatsomer visial be deemed valued indees made in writing and reserved for Cardinal writing 30 days after completion of the ar	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive rem analyses. All claims including those for neclinence and any other cause whatsoever
		67	6 1006
		5	SILDOS
		2 - -	4. VD04
	1	2  	2. VD03
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		(G)RA # COI GROU WAS1 SOIL SLUD OTHE ACID/ ICE / OTHE	H501997
	3T	NTAIN JNDV FEWA OGE ER : /BASE COOL	Lab I.D. Sample I.D.
	PV	VATER TER	
			FUR LIND LOCE UNIL.T
		Fax #:	Sampler Name:
		CTB Phone #:	Project Location: VACA DAAW
		State: Zip:	Project Name:
		wner: City:	Project #: Project Owner:
	х.	Address:	Phone #: 575 . 631- 3129 Fax #:
		NA Zip: 88240 Attn:	State:
		Company:	Address: 1416 W. Beondway
		P.O. #:	Project Manager: Todd Robe eson
ANALYSIS REQUEST	6	LIS BILL	Company Name: BTA UI Produc
		-2476	(575) 393-2326, FAX (575) 393-2476
		88240	101 East Marland, Hobbs, NM 88240

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



August 06, 2015

TODD ROBERSON

**BTA Oil Producers** 

103 South Pecos

Midland, TX 79701

RE: VACA DRAW CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/05/15 13:55.

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



BTA Oil Producers TODD ROBERSON 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	08/05/2015	Sampling Date:	08/04/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	VACA DRAW CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

### Sample ID: VD07-L (H502028-01)

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	08/06/2015	ND	1.93	96.4	2.00	1.12	
Toluene*	<0.050	0.050	08/06/2015	ND	1.92	96.2	2.00	0.00411	
Ethylbenzene*	<0.050	0.050	08/06/2015	ND	2.09	105	2.00	0.135	
Total Xylenes*	<0.150	0.150	08/06/2015	ND	5.47	91.2	6.00	0.0753	
Total BTEX	<0.300	0.300	08/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 85.6-13	7						
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	08/06/2015	ND	416	104	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	08/05/2015	ND	195	97.6	200	6.22	
DRO >C10-C28	<10.0	10.0	08/05/2015	ND	177	88.5	200	9.55	
EXT DRO >C28-C35	<10.0	10.0	08/05/2015	ND					
Surrogate: 1-Chlorooctane	102	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	123	% 52.1-17	6						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers TODD ROBERSON 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	08/05/2015	Sampling Date:	08/04/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	VACA DRAW CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

### Sample ID: VD08 (H502028-02)

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	08/06/2015	ND	1.93	96.4	2.00	1.12	
Toluene*	<0.050	0.050	08/06/2015	ND	1.92	96.2	2.00	0.00411	
Ethylbenzene*	<0.050	0.050	08/06/2015	ND	2.09	105	2.00	0.135	
Total Xylenes*	<0.150	0.150	08/06/2015	ND	5.47	91.2	6.00	0.0753	
Total BTEX	<0.300	0.300	08/06/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/06/2015	ND	416	104	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	08/05/2015	ND	195	97.6	200	6.22	
DRO >C10-C28	285	10.0	08/05/2015	ND	177	88.5	200	9.55	
EXT DRO >C28-C35	44.5	10.0	08/05/2015	ND					
Surrogate: 1-Chlorooctane	113 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	133 9	% 52.1-17	6						

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\*=Accredited Analyte

Celez 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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

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

Rush

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Rélinquished By: Project #: City: Company Name: Project Location: Project Name: Phone #: Project Manager: Address: Sampler Name: HSOLDES Relinquished By: ervice. In no event shall Cardinal be liable for inalyses. All claims including those for LEASE NOTE: Liability and Sampler - UPS - Bus - Other: FOR LAB USE ONLY Delivered By: (Circle One) Lab I.D. N Voca Draw STA Oil Knowners Scien Sample I.D. ice and any 1 Safery Fax #: Project Owner: lav.s State: Date: Time Time: whatsoever shall be deemed waived unless made in writi 158 ISI including without limitation, business inten 6.2 Zip: (G)RAB OR (C)OMP **Received By:** Received By # CONTAINERS -GROUNDWATER Sample Condition Cool Intact Yes Yes No No No WASTEWATER MATRIX SOIL OIL SLUDGE hs, loss of use, or loss of profits incurred by client, its subsidiaries, and received by Cardinal within 30 days after completion of the applicable State: City: P.O. #: Phone #: Attn: Company: OTHER Fax #: Address: PRESERV. ACID/BASE: ICE / COOL CHECKED BY: BILL TO OTHER (Initials) 8-4.15 Simp Zip: SAMPLING DATE paid by the client for the Phone Result: Fax Result: REMARKS: TIME Eamil Results to : table frinity oil field services. co h los ides 
 Yes
 No
 Add'l Phone #:

 Yes
 No
 Add'l Fax #:
 Blex bgrines & blaoil. Lon bduvis & btapil.com ANALYSIS REQUEST

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

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