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Soil Assessment and Remediation Work Plan

Bridger-Sunoco Pecos River Unloading Station
Facility #5593400000 * 2RP-4435-0
Talon Project No: 702231.004.01

Prepared For:

Bridger, LLC.
2009 Chenault Drive Ste. 100
Carrollton, TX 75006

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

February 12, 2018

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Work Plan**
Sunoco Pecos River Station Unloading Station
Facility #5593400000 * 2RP-4435-0

Dear Mr. Bratcher,

Bridger, LLC has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The Sunoco Pecos River Unloading Station is located approximately fifteen (15) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter L, Section 12, Township 28 South and Range 23 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.315733 North and -104.050077 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Pajarito-Dune complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Quaternary in age and is comprised of eolian sands and alluvium deposits which include sandy loams underlain with fine sandy loams. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates the nearest ground water data to be in S13-T23S-R28E. The ground water in Section 13 is reported to be at a depth of 45' below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Therefore, the ranking for this site is a **20** based on the following:

Depth to ground water	<50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **20**, the NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene and 100 mg/kg for TPH. NMOCD recommended guidelines for total chlorides is 600 mg/kg.

Incident Description and Initial Remedial Actions

On Saturday evening September 16, 2017, a tank at the Sunoco Pecos River Station was overfilled releasing approximately five (5) barrels of crude oil into an unlined earthen tank battery. All fluids were contained within the berms. There were no fluids recovered. A site plan illustrating the impacted area can be located in [Appendix I](#).

Talon made an initial site inspection Sunday September 17, 2017. A One Call (utility locate request) was placed and hand excavation with a roustabout crew commenced when the One Call cleared.

On September 22, 2017, a second release of approximately one (1) barrel also due to human error occurred at the same location. The fluids were contained within the earthen berms and the previously excavated areas. No fluids were recovered.

On September 25, 2017, Talon mobilized a hydro-excavator to the project site. Due to limited access to the work area and proximity to existing infrastructure, this approach was deemed safer than excavation with heavy equipment. Excavation activities continued throughout the week utilizing both the hydro-excavator in the southern portion of the battery (to a depths of 4-feet deep) and roustabout crews on the north portion of the battery due to limited equipment access. A total of 130 cubic yards of soil was disposed of at Lea Land, LLC (Permit No. WM-01-035).

On October 2, 2017, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected in the excavated areas of the tank battery to depths of 4-foot deep. It was apparent there were impacted soils encountered extending beyond 4-feet deep and that there may have been historical releases at this facility. At the direction of Bridger, the site was backfilled pending laboratory results and direction from NMOCD.

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

Talon personnel wearing clean nitrile gloves collected all soil samples. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per Method SM4500Cl-B. The analytical results are presented in the data tables below.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	1.0	149	<16	2070	5230
S-2	4.0	35.9	64	565	3320
S-3	2.0	<0.300	<16	<50	1840

On November 9, 2017, Talon personnel returned to the location to obtain additional samples at greater depths utilizing an air rotary drill rig as directed by the NMOCD. Due to limited site access, borings could only be advanced in the southern portion of the tank battery.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT DRO
B-1	5.0	<0.300	576	<10.0	14.9	29.1
	8-10.0	<0.300	128	<10.0	22.4	113
B-2	5.0	<0.300	64.0	<10.0	<10.0	<10.0
	6.0	<0.300	96	<10.0	13.3	<10.0
	7.0	<0.300	64	<50.0	698	166
	8.0	<0.300	80	173	2210	502
	9.0	0.649	96	214	2680	585
	10.0	0.697	96	86.4	1460	414
	11.0	0.371	96	134	1460	347
	15.0	<0.300	48	<10.0	<10.0	<10.0
	20.0	<0.300	32	<10.0	32.6	10.9
	25.0	<0.300	16	<10.0	<10.0	<10.0

The Antea Group, Shoreview, Minnesota, was subsequently retained by Bridger to model the two releases described herein in order to simulate the impacts at this location relating to the Bridger incidents. The Hydrocarbon Spill Screening Model (HSSM), Weaver 1994 and available on the USEPA Website, was utilized for this study as well as the physical characteristics of the soil encountered (i.e., grain-size analysis, hydraulic conductivity). A crude oil sample provided by Bridger was also sent to Pace Analytical (Zymax Forensics Division), Pittsburgh, Pennsylvania, for physical properties analysis (density, viscosity). Results of the HSSM predicted the depths of the Bridger impacts over a 5-day period to be less than 1.0-feet deep.

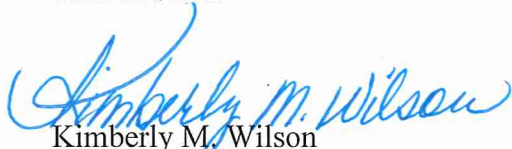
Proposed Remedial Actions

- All remaining hydrocarbon-impacted soil within the bermed, unlined containment (to a depth of 2-feet deep) will be hand-excavated to the best extent reasonable, feasible and as safely as possible around the tanks and steel flow lines in the battery to protect the safety of field personnel and structural integrity of the equipment within the battery.
- The excavated soil will be transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- A 20-mil liner will be installed at the bottom of the excavated area at a minimum of 2-feet below land surface to encapsulate the remaining impacted soil and insure that further downward migration of contaminants cannot occur.
- The excavated area will be backfilled with new caliche, machine compacted and contoured to match the surrounding location. The berms will be reconstructed.
- On behalf of Bridger LLC, we respectfully request deferment of further remediation regarding historical impacts, not attributable to the Bridger releases, within the tank battery until facility closure.
- A final closure report documenting the remedial actions and a final C-141 will be provided to the NMOCD District II in Artesia.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE


Kimberly M. Wilson
Project Manager


David J. Adkins
District Manager

Attachments:

- Appendix I Site Plan
- Appendix II Groundwater Data & Initial C-141
- Appendix III Laboratory Results

APPENDIX I

SITE PLAN

Sunoco Station

Eddy County, NM



Legend

- Bore Hole Locations
- Hand Auger Sample Points
- Impacted Area

Google Earth

© 2017 Google

70 ft



Pecos River Unloading Station

Eddy County, New Mexico



Google earth

© 2018 Google

31

Potash Mines Rd

Sunoco Station

300 ft

N

APPENDIX II
GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD	Q Q Q									Water					
POD Number	Code	Sub-basin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Column		
C 01216			ED	4	1	1	13	23S	28E	589801	3575205*		731	60	45	15	
C 03460 POD1		C	ED	3	1	2	14	23S	28E	588857	3575004		996	100	38	62	
C 03469 POD3		C	ED	3	4	3	11	23S	28E	588381	3575538		1076	47			
C 03469 POD1		C	ED	3	4	3	11	23S	28E	588374	3575538		1083	68	38	30	
C 03469 POD2		C	ED	3	4	3	11	23S	28E	588382	3575506		1084	48			
C 01217			ED	1	1	3	13	23S	28E	589606	3574593*		1249	87	50	37	
C 01214			ED	1	2	3	13	23S	28E	590010	3574597*		1366	70	20	50	
C 00512 EXPL	O		ED			1	11	23S	28E	588272	3576703*		1441	200	16	184	
C 00315		C	ED	3	1	3	11	23S	28E	587973	3575995*		1454	100	45	55	
C 02702		C	ED			2	13	23S	28E	590715	3575108*		1483	38	20	18	
C 01967		C	ED			2	3	13	23S	28E	590111	3574498*		1499	264	200	64
C 00512		C	ED	4	1	1	11	23S	28E	588188	3576775		1552	175	15	160	
C 00608		C	ED	3	3	1	11	23S	28E	587970	3576401*		1556	200			
C 00512 CLW198323	O		ED	4	1	1	11	23S	28E	588167	3576806*		1587	100			
C 00512 S		C	ED	4	1	1	11	23S	28E	588167	3576806*		1587	100			
C 01215			ED	4	2	3	13	23S	28E	590210	3574397*		1635	104	15	89	
C 00616			ED	1	3	1	14	23S	28E	587982	3574978*		1668	120	30	90	
C 00235		C	ED			2	2	15	23S	28E	587676	3575280*		1825	160		
C 02189		C	ED	1	1	3	14	23S	28E	587985	3574572*		1905	48	29	19	
C 00269		C	ED	4	4	2	15	23S	28E	587778	3574773*		1949	240	35	205	
C 00269 CLW199753	O		ED	4	4	2	15	23S	28E	587778	3574773*		1949	240	35	205	
C 00321		C	ED			4	2	15	23S	28E	587679	3574874*		1983	120		
C 02503		C	ED			4	2	15	23S	28E	587679	3574874*		1983	70	12	58
C 01102		C	ED			1	2	23	23S	28E	588901	3573672*		2217	100	12	88
C 00128		C	ED	2	4	4	15	23S	28E	587783	3574162*		2333	149			
C 03965 POD5		CUB	ED	4	1	1	24	23S	28E	589864	3573534		2336	35	31	4	
C 00154		C	ED	4	2	1	23	23S	28E	588595	3573566*		2406	196	38	158	
C 00154 CLW194067	O		ED	3	2	1	23	23S	28E	588395	3573566*		2482	150	65	85	
C 01108		C	ED	3	2	1	23	23S	28E	588395	3573566*		2482	60	35	25	
C 03965 POD4		CUB	ED			1	4	24	23S	28E	589918	3573381		2497	40	31	9

Average Depth to Water: **38 feet**
 Minimum Depth: **12 feet**
 Maximum Depth: **200 feet**

Record Count:30

UTMNAD83 Radius Search (in meters):

Easting (X): 589417.66

Northing (Y): 3575827.96

Radius: 2500

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/16/17 1:55 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 11 2017

District I
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

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

Form C-141
Revised April 3, 2017
RECEIVED
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

DAB1728629209

Release Notification and Corrective Action

DAB1728629A17

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Bridger, LLC 296886	Contact: Mel Franklin
Address: 2009 Chenault Drive Ste. 100, Carrollton, TX	Telephone No.: 575-291-9018
Facility Name: Sunoco Pecos River Station Truck Unload	Facility Type: Tank Battery

Surface Owner: Private	Mineral Owner: N/A	API #/Facility #: 5593400000
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	12	28S	23E					

Latitude 32.315733 Longitude -104.050077 NAD83

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 5 bbls	Volume Recovered: -0- bbls
Source of Release: Tank Overflow	Date and Hour of Occurrence: 9/16/2017 @ 10:15 am	Date and Hour of Discovery: 9/16/2017 @ 10:15am
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? NMOCD -- Mike Bratcher, left voicemail	
By Whom? David Adkins	Date and Hour: 9/18/2017 @ 08:30 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Human error resulted in a tank overflow at the Sunoco Pecos River Station. Approximately 5 barrels of crude oil were released into the unlined earthen berms. No fluids were recovered. All fluids remained on location.

Describe Area Affected and Cleanup Action Taken.*

All fluid was contained within the earthen berms. Talon/LPE has been contracted to perform remediation activities.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Mel Franklin	Approved by Environmental Specialist: 	
Title: Area Operations Manager	Approval Date: 10/12/17	Expiration Date: N/A
E-mail Address: mfranklin@bridgergroup.com	Conditions of Approval: See Attached	Attached ☐ 29P-4435
Date: 9/20/2017 Phone: 575-291-9018		

* Attach Additional Sheets If Necessary

APPENDIX III

LABORATORY RESULTS



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

November 17, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SUNOCO STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/13/17 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/13/2017
 Reported: 11/17/2017
 Project Name: SUNOCO STATION
 Project Number: 702231.004.02
 Project Location: EDDY CO NM

 Sampling Date: 11/09/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B-1 5' (H703160-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.87	93.6	2.00	0.326	
Toluene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.738	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.3	2.00	1.23	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.510	
Total BTX	<0.300	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	11/14/2017	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	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	14.9	10.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	29.1	10.0	11/15/2017	ND					

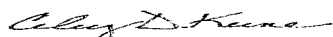
Surrogate: 1-Chlorooctane 108 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.2 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/13/2017
Reported: 11/17/2017
Project Name: SUNOCO STATION
Project Number: 702231.004.02
Project Location: EDDY CO NM

Sampling Date: 11/09/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B-1 8-10' (H703160-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.87	93.6	2.00	0.326	
Toluene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.738	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.3	2.00	1.23	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.510	
Total BTEx	<0.300	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/14/2017	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	11/17/2017	ND	228	114	200	0.973	
DRO >C10-C28	<10.0	10.0	11/17/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	<10.0	10.0	11/17/2017	ND					

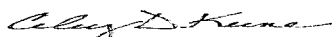
Surrogate: 1-Chlorooctane 97.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.4 % 34.7-157

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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/13/2017
Reported: 11/17/2017
Project Name: SUNOCO STATION
Project Number: 702231.004.02
Project Location: EDDY CO NM

Sampling Date: 11/09/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B-2 5' (H703160-03)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.87	93.6	2.00	0.326	
Toluene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.738	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.3	2.00	1.23	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.510	
Total BTX	<0.300	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/14/2017	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	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	<10.0	10.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	<10.0	10.0	11/15/2017	ND					

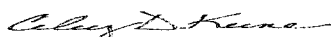
Surrogate: 1-Chlorooctane 99.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.6 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/13/2017
Reported: 11/17/2017
Project Name: SUNOCO STATION
Project Number: 702231.004.02
Project Location: EDDY CO NM

Sampling Date: 11/09/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B-2 6' (H703160-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.87	93.6	2.00	0.326	
Toluene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.738	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.3	2.00	1.23	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.510	
Total BTX	<0.300	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/14/2017	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	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	13.3	10.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	<10.0	10.0	11/15/2017	ND					

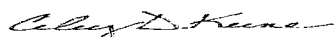
Surrogate: 1-Chlorooctane 104 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.5 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/13/2017
Reported: 11/17/2017
Project Name: SUNOCO STATION
Project Number: 702231.004.02
Project Location: EDDY CO NM

Sampling Date: 11/09/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B-2 7' (H703160-05)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.87	93.6	2.00	0.326	
Toluene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.738	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.3	2.00	1.23	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.510	
Total BTEx	<0.300	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/14/2017	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	<50.0	50.0	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	698	50.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	166	50.0	11/15/2017	ND					

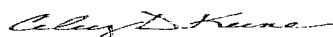
Surrogate: 1-Chlorooctane 96.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.8 % 34.7-157

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/13/2017
 Reported: 11/17/2017
 Project Name: SUNOCO STATION
 Project Number: 702231.004.02
 Project Location: EDDY CO NM

 Sampling Date: 11/09/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B-2 8' (H703160-06)

BTEx 8021B		mg/kg	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.87	93.6	2.00	0.326	
Toluene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.738	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.3	2.00	1.23	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.510	
Total BTEx	<0.300	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 207 % 72-148

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/14/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	173	50.0	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	2210	50.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	502	50.0	11/15/2017	ND					

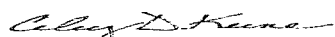
Surrogate: 1-Chlorooctane 132 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/13/2017
Reported: 11/17/2017
Project Name: SUNOCO STATION
Project Number: 702231.004.02
Project Location: EDDY CO NM

Sampling Date: 11/09/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B-2 9' (H703160-07)

BTX 8021B		mg/kg	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.87	93.6	2.00	0.326	
Toluene*	0.649	0.050	11/15/2017	ND	1.88	94.0	2.00	0.738	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.3	2.00	1.23	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.510	
Total BTX	0.649	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 230 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/14/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	214	50.0	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	2680	50.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	585	50.0	11/15/2017	ND					

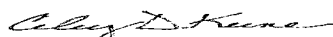
Surrogate: 1-Chlorooctane 123 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.2 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/13/2017
Reported: 11/17/2017
Project Name: SUNOCO STATION
Project Number: 702231.004.02
Project Location: EDDY CO NM

Sampling Date: 11/09/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B-2 10' (H703160-08)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.846	
Toluene*	<0.050	0.050	11/15/2017	ND	1.89	94.3	2.00	0.528	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.4	2.00	0.735	
Total Xylenes*	0.697	0.150	11/15/2017	ND	5.87	97.8	6.00	0.967	
Total BTX	0.697	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 148 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/14/2017	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	86.4	50.0	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	1460	50.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	414	50.0	11/15/2017	ND					

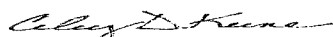
Surrogate: 1-Chlorooctane 115 % 28.3-164

Surrogate: 1-Chlorooctadecane 126 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/13/2017
 Reported: 11/17/2017
 Project Name: SUNOCO STATION
 Project Number: 702231.004.02
 Project Location: EDDY CO NM

 Sampling Date: 11/09/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B-2 11' (H703160-09)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.846	
Toluene*	0.371	0.050	11/15/2017	ND	1.89	94.3	2.00	0.528	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.4	2.00	0.735	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.967	
Total BTEx	0.371	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 177 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/14/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	134	50.0	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	1460	50.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	347	50.0	11/15/2017	ND					

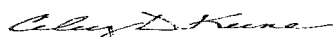
Surrogate: 1-Chlorooctane 116 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.9 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/13/2017
 Reported: 11/17/2017
 Project Name: SUNOCO STATION
 Project Number: 702231.004.02
 Project Location: EDDY CO NM

 Sampling Date: 11/09/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B-2 15' (H703160-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.846	
Toluene*	<0.050	0.050	11/15/2017	ND	1.89	94.3	2.00	0.528	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.4	2.00	0.735	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.967	
Total BTX	<0.300	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/14/2017	ND	416	104	400	3.77	

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	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	<10.0	10.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	<10.0	10.0	11/15/2017	ND					

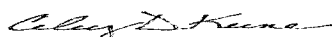
Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/13/2017
 Reported: 11/17/2017
 Project Name: SUNOCO STATION
 Project Number: 702231.004.02
 Project Location: EDDY CO NM

 Sampling Date: 11/09/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B-2 20' (H703160-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.846	
Toluene*	<0.050	0.050	11/15/2017	ND	1.89	94.3	2.00	0.528	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.4	2.00	0.735	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.967	
Total BTX	<0.300	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2017	ND	416	104	400	3.77	

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	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	32.6	10.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	10.9	10.0	11/15/2017	ND					

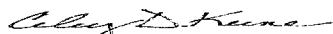
Surrogate: 1-Chlorooctane 104 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.3 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/13/2017
Reported: 11/17/2017
Project Name: SUNOCO STATION
Project Number: 702231.004.02
Project Location: EDDY CO NM

Sampling Date: 11/09/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: B-2 25' (H703160-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2017	ND	1.88	94.0	2.00	0.846	
Toluene*	<0.050	0.050	11/15/2017	ND	1.89	94.3	2.00	0.528	
Ethylbenzene*	<0.050	0.050	11/15/2017	ND	1.85	92.4	2.00	0.735	
Total Xylenes*	<0.150	0.150	11/15/2017	ND	5.87	97.8	6.00	0.967	
Total BTEX	<0.300	0.300	11/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2017	ND	416	104	400	3.77	

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	11/15/2017	ND	228	114	200	0.973	
DRO >C10-C28	<10.0	10.0	11/15/2017	ND	168	84.0	200	0.129	
EXT DRO >C28-C36	<10.0	10.0	11/15/2017	ND					

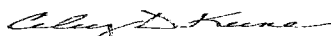
Surrogate: 1-Chlorooctane 112 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.8 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

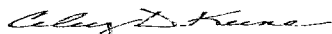
Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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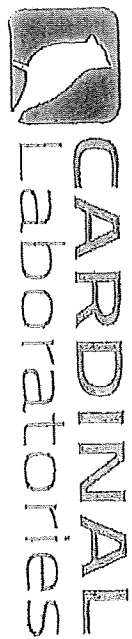
Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1062

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2321.



2062

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Highland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

ANALYSIS REQUEST

Company Name: Talon/LPE

P.O. #:

Project Manager: D. Adkins

Company: Talon/LPE

Address: 408 W. Texas Ave.

Attn:

City: Artesia

State: NM zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 702331.004.02 Project Owner: Bridge

Project Name: Sunoco Station

City:

Project Location: Eddy County

State: Zip:

Sampler Name: J. Laird

Phone #:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab ID.

Sample ID.

H703160

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

October 05, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SUNOCO / BRIDGER

Enclosed are the results of analyses for samples received by the laboratory on 10/03/17 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 10/03/2017
 Reported: 10/05/2017
 Project Name: SUNOCO / BRIDGER
 Project Number: 702231.004.01
 Project Location: EDDY CO NM

 Sampling Date: 10/02/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-1 1' (H702672-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	3.57	0.500	10/04/2017	ND	1.93	96.4	2.00	0.568		
Toluene*	29.1	0.500	10/04/2017	ND	1.73	86.6	2.00	0.315		
Ethylbenzene*	9.94	0.500	10/04/2017	ND	1.78	89.1	2.00	0.0995		
Total Xylenes*	107	1.50	10/04/2017	ND	5.47	91.1	6.00	0.191		
Total BTEX	149	3.00	10/04/2017	ND						

Surrogate: 4-Bromofluorobenzene (PII) 122 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/03/2017	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	2070	50.0	10/03/2017	ND	217	108	200	0.381		
DRO >C10-C28	5230	50.0	10/03/2017	ND	227	113	200	0.189		

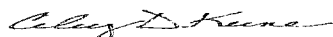
Surrogate: 1-Chlorooctane 147 % 28.3-164

Surrogate: 1-Chlorooctadecane 146 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 10/03/2017
 Reported: 10/05/2017
 Project Name: SUNOCO / BRIDGER
 Project Number: 702231.004.01
 Project Location: EDDY CO NM

 Sampling Date: 10/02/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-2 4' (H702672-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.59	0.100	10/04/2017	ND	1.93	96.4	2.00	0.568	
Toluene*	2.70	0.100	10/04/2017	ND	1.73	86.6	2.00	0.315	
Ethylbenzene*	6.25	0.100	10/04/2017	ND	1.78	89.1	2.00	0.0995	
Total Xylenes*	25.4	0.300	10/04/2017	ND	5.47	91.1	6.00	0.191	
Total BTEX	35.9	0.600	10/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 197 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/03/2017	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	565	50.0	10/03/2017	ND	217	108	200	0.381	
DRO >C10-C28	3320	50.0	10/03/2017	ND	227	113	200	0.189	

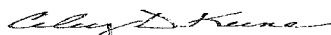
Surrogate: 1-Chlorooctane 128 % 28.3-164

Surrogate: 1-Chlorooctadecane 129 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 10/03/2017
 Reported: 10/05/2017
 Project Name: SUNOCO / BRIDGER
 Project Number: 702231.004.01
 Project Location: EDDY CO NM

 Sampling Date: 10/02/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-3 2' (H702672-03)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2017	ND	1.93	96.4	2.00	0.568	
Toluene*	<0.050	0.050	10/04/2017	ND	1.73	86.6	2.00	0.315	
Ethylbenzene*	<0.050	0.050	10/04/2017	ND	1.78	89.1	2.00	0.0995	
Total Xylenes*	<0.150	0.150	10/04/2017	ND	5.47	91.1	6.00	0.191	
Total BTEX	<0.300	0.300	10/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/03/2017	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	<50.0	50.0	10/03/2017	ND	217	108	200	0.381	
DRO >C10-C28	1840	50.0	10/03/2017	ND	227	113	200	0.189	

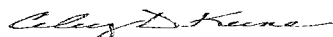
Surrogate: 1-Chlorooctane 73.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 105 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

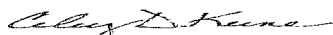
Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

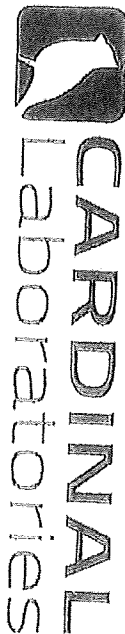
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: D. ADKINS		P.O. #: 702251.004.01																			
Address: 408 W. Texas Ave.		Company: Talon/LPE																			
City: Artesia		Attn: D. ADKINS																			
Phone #: 575-746-8768		Address:																			
Fax #: 575-746-8905		City:																			
Project #: 702251.004.01		State: Zip:																			
Project Name: Sunoco / Bridger		Phone #:																			
Project Location: Bridger Co. NM		Fax #:																			
Sampler Name: D. ADKINS		Matrix: PRESERV. SAMPLING																			
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(G) RAB OR (C) COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME	TPH	BTX	TOTAL CHLORIDES				
H702672	5-1	1	1	1	1	1	1	1	1	1	1	1	10/17	1146	1	1	1				
	5-2	4	1	1	1	1	1	1	1	1	1	1	10/12	1200	1	1	1				
	5-3	2	1	1	1	1	1	1	1	1	1	1	10/12	1215	1	1	1				
PLEASE NOTE: Liability and damages, Cardinal's liability and damage warranty, for any claim arising whether based in contract or not, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated warranties or otherwise.																					
Relinquished By: [Signature]		Date: 10-3-17		Time: 7:00		Received By: [Signature]		Date: 10-3-17		Time: 9:15		Sample Condition: Cool Intact		Checked By: [Signature]		Phone Result: [] Yes [] No		Fax Result: [] Yes [] No		Add'l Phone #: [] Add'l Fax #: []	
Relinquished By: [Signature]		Date: 10-3-17		Time: 7:00		Received By: [Signature]		Date: 10-3-17		Time: 9:15		Sample Condition: Cool Intact		Checked By: [Signature]		Phone Result: [] Yes [] No		Fax Result: [] Yes [] No		Add'l Phone #: [] Add'l Fax #: []	
Delivered By: (Circle One) 4-30		Date: 10-3-17		Time: 9:15		Received By: [Signature]		Date: 10-3-17		Time: 9:15		Sample Condition: Cool Intact		Checked By: [Signature]		Phone Result: [] Yes [] No		Fax Result: [] Yes [] No		Add'l Phone #: [] Add'l Fax #: []	
Sampler - UPS - BHS - Other: []		Date: 10-3-17		Time: 9:15		Received By: [Signature]		Date: 10-3-17		Time: 9:15		Sample Condition: Cool Intact		Checked By: [Signature]		Phone Result: [] Yes [] No		Fax Result: [] Yes [] No		Add'l Phone #: [] Add'l Fax #: []	

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