

Breitburn Management

State 14C #009

2RP-4854

Closure Report

**Section 14, Township 18S, Range 28E
Eddy County, New Mexico**

June 13, 2019



Prepared for:

**Breitburn Management
P.O. BOX 678
Andrews, TX 79714**

By:

**Safety & Environmental Solutions, Inc.
703 East Clinton
Hobbs, New Mexico 88240
(575) 397-0510**

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I. Company Contacts

Representative	Company	Telephone	E-mail
Thomas Haigood	Maverick Resources	432-523-1807	Thomas.haigood@maverickresources.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Breitburn Operating, AKA Maverick Resources to perform site remediation on the State 14C #009, concerning a one hundred ten (110) bbl. release of produced water. This site is situated in Eddy County, Section 14, Township 18S, and Range 28E.

According to the C-141: Approximately one hundred and ten (110) bbls of produced water were released due to the failure of an abandoned flowline that tied into Breitburn's production line. Thereby, allowing the release of both oil and produced water. The line was isolated and a vacuum truck was dispatched in order to recover all freestanding fluid (Appendix A). Safety & Environmental Solutions was contacted for remediation.

III. Surface and Ground Water

The New Mexico Office of the State Engineer records indicate no record of groundwater in section 28. However, POD number RA 09588 record indicates a well depth of 300' in section 33 of township 18S and range 28E. Further research of Township 18S, Range 29E, and Section 29 has a well record (CP 01618 POD 1) indicating the depth to water as 180' bgs. This POD is located approximately 3.7 miles east of the Breitburn State 14 C # 009 (Appendix B).

IV. Characterization

The aforementioned site has been remediated according to the NMOCD published guidelines dated (July 24, 2018). The site ranking and soil screening levels as presented in the table below: The Recommended Remediation Action Levels (RRAL) based on depth to groundwater for this site is 10 parts per million (ppm) Benzene, 50 ppm combined Benzene, Toluene, Ethyl Benzene, Total Xylenes (BTEX), and 2,500 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 600 mg/kg is also required for areas of pasture impact.

The soil classification for this area is considered to be *Simona-Pajarita association; Sandy, deep soils that are shallow to caliche, from wind-worked deposits.

Table 1 Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l	Constituent	Method*	Limit**
TDS			
<50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

V. Work Performed

On July 2, 2018, SESI personnel were onsite at the Breitburn State 14 C #009 to begin delineation of the release. Breitburn personnel stated that the release had already been excavated by the use of a bull dozer. The release area was observed to have been excavated to the depth of one foot, with some small areas of hydrocarbon staining remaining. Four bottom surface soil samples were obtained from the excavated area and field tested for TPH and Chlorides. Due to levels above delineation requirements, the samples were not sent to the lab for analysis. The excavation was mapped using the Juno 3B and site photos were taken. Aerial photos of the location, release area, and excavation were also taken using a drone.

Field Test Results: 7-2-2018		
Sample ID	TPH	Chlorides
SP-1	124	22,936
SP-2	5662	22,936
SP-3	5331	22,936
SP-4	59	<128

On August 27, 2018, SESI personnel were onsite at the Breitburn State 14 C #009 with Breitburn personnel and JC Services backhoe personnel to install test trenches, so as to determine vertical extent of contamination. Three test trenches and sample points were installed in the excavated area and field tested. All soil samples were properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM by chain of custody, and analyzed for TPH (total petroleum hydrocarbons Method 8015M), BTEX, and Chlorides (Method SM4500Cl-B). The lab results are recapped in the following table:

Breitburn State 14 C #009 Soil Sample Results: Cardinal Laboratories 8-30-2018									
SAMPLE ID	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH DRO	EXT DRO
TT-1 3ft	<0.050	<0.050	<0.050	<0.150	<0.300	896	<10.0	<10.0	<10.0
TT-1 5ft	<0.050	<0.050	<0.050	<0.150	<0.300	624	<10.0	<10.0	<10.0
TT-1 6ft	<0.050	<0.050	<0.050	<0.150	<0.300	256	<10.0	<10.0	<10.0
TT-1 7ft	<0.050	<0.050	<0.050	<0.150	<0.300	208	<10.0	<10.0	<10.0
TT-1 8ft	<0.050	<0.050	<0.050	<0.150	<0.300	192	<10.0	<10.0	<10.0
TT-1 16ft	<0.050	<0.050	<0.050	<0.150	<0.300	144	<10.0	<10.0	<10.0
TT-2 2ft	<0.050	<0.050	<0.050	<0.150	<0.300	208	<10.0	<10.0	<10.0
TT-2 3ft	<0.050	<0.050	<0.050	<0.150	<0.300	240	<10.0	<10.0	<10.0
TT-2 4ft	<0.050	<0.050	<0.050	<0.150	<0.300	128	<10.0	<10.0	<10.0
TT-2 16ft	<0.050	<0.050	<0.050	<0.150	<0.300	128	<10.0	<10.0	<10.0
TT-3 3ft	<0.050	<0.050	<0.050	<0.150	<0.300	640	<10.0	<10.0	<10.0
TT-3 4ft	<0.050	<0.050	<0.050	<0.150	<0.300	288	<10.0	<10.0	<10.0
TT-3 5ft	<0.050	<0.050	<0.050	<0.150	<0.300	160	<10.0	<10.0	<10.0
TT-3 6ft	<0.050	<0.050	<0.050	<0.150	<0.300	128	<10.0	<10.0	<10.0
TT-3 16ft	<0.050	<0.050	<0.050	<0.150	<0.300	112	<10.0	<10.0	<10.0
SP-5 South Wall	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0	<10.0
SP-6 South Wall	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0	<10.0
SP-7 East Wall	<0.050	<0.050	<0.050	<0.150	<0.300	128	<10.0	<10.0	<10.0
SP-8 North Wall	<0.050	<0.050	<0.050	<0.150	<0.300	176	<10.0	<10.0	<10.0
SP-9 North Wall	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0	<10.0
SP-10 North Wall	<0.050	<0.050	<0.050	<0.150	<0.300	192	<10.0	<10.0	<10.0
SP-11 West Wall	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0	<10.0

Based on the soil delineation: a work plan was submitted to the NMOCD, and subsequently approved on March 11, 2019.

On May 22, 2019 SESI personnel together with personnel and equipment from Custom Welding, of Hobbs, NM are on location in order to commence with excavating the impacted area. The excavation activity begins in the area of test trench 1, a soil sample is grabbed and field tested whereby the results for Chloride constituency were 880 mg/kg., therefore the excavation is advanced an additional 1' bgs., and the field results for Chloride were <600 mg/kg. It is prudent to note and consider the soil classification for this area. It is very shallow to caliche bed, and rock refusal is slowing excavation. All soil samples are properly packaged and preserved (Appendix C Photo).

On May 23, 2019 SESI personnel together with personnel and equipment from Custom Welding of Hobbs, NM returned to the State 14C #009 in order to continue remediation efforts between the areas of Test Trench 1, and Test Trench 2 respectively. All impacted soil is stockpiled for disposal. Seventy percent of excavation is complete and field results for all sidewall and bottom samples for Chlorides are <600 mg/kg. All soil samples are properly packaged, preserved, and transported to Hall Laboratories for analyses of Chloride (CI Method EPA 300.0), Total Petroleum Hydrocarbons (TPH Method 8015M/D), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX EPA Method 8021B). Please see the table below recapping the results of the analyses.

Hall Laboratories 05/29/19					
Sample ID	CL Method 300	DRO Method 8015M/D	MRO Method 8015M	GRO Method 8015D	BTEX Method 8021B
SP-1 Bottom 3'	93	ND	66	ND	ND
SP-2 Bottom 3'	96	ND	59	ND	ND
SP-3 East Wall	120	ND	57	ND	ND
SP-4 West Wall	100	ND	63	ND	ND
SP-5 Bottom 2'	130	13	49	ND	ND
SP-6 North Wall	89	28	71	ND	ND
SP-7 Bottom 2'	130	13	59	ND	ND
SP-8 South Wall	ND	37	79	ND	ND
SP-9 Bottom 2'	150	16	70	ND	ND
SP-10 North Wall	140	27	85	ND	ND
SP-11 Bottom 2'	120	16	66	ND	ND
SP-12 South Wall	ND	55	110	ND	ND
SP-13 Bottom 2'	130	21	75	ND	ND
SP-14 North Wall	130	25	91	ND	ND
SP-15 Bottom 2'	120	11	58	ND	ND

On May 28, 2019 and based on the analyses from Hall Laboratories: SESI personnel together with personnel and equipment from Custom Welding of Hobbs, NM returned to the site in order to complete excavation of the impacted area, commence with backfill and dispose of all stockpiled soils. The excavated area is photographed, mapped and all sample point positions are marked as evidence of site characterization (Figure 1).

VI. Conclusions

All impacted soil (399 tons), have been disposed of at Lea Landfill, an NMOCD approved facility (Appendix D). The pasture area was excavated to depths of 2' and 3' respectively, contains Chloride concentrations at or below <150 mg/kg. As was noted in the Characterization: the pasture area was shallow to caliche, therefore a layer of fresh caliche was installed in the excavated area, capped with clean topsoil, and reseeded to promote native vegetation in accordance with NMSLO guidelines. The lease road area has been backfilled with like material and restored to grade.

Remedial actions at this site have all been performed with the approval of, and in accordance with all New Mexico Oil Conservation Division (NMOCD) requirements and conditions.

As a result, SESI, on behalf of Breitbart Operating respectfully submits this Closure Documentation for your consideration and approval.

VII. Figures & Appendices

Figure 1 - Site Plan
Appendix A – C-141
Appendix B – Groundwater
Appendix C – Laboratory Analytical
Appendix D – Photo Documentation
Appendix E – Disposal Manifest

Figure 1

Site Map

Breitburn State 14C

Site Plan Remediation

Legend

Excavation 1

Spill Area

Pipeline 2

Sample Position

Wall



Appendix A

C-141

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☐ Description of 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 OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Thomas Haigood

Title: Permian EHS Coordinator

Signature: 

Date: 3/5/2019

email: Thomas.haigood@maverickresources.com

Telephone: 432-523-1807

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

Appendix B

Groundwater



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 Sub-															
		Q			Q			Q					Depth	Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y		Well	Water	Column
RA 09588			ED	1	2	33	18S	28E		576976	3619384*		300		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Township: 18S

Range: 28E

*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.

Breitburn 647-711

Groundwater POD RA 09588

Breitburn 711 Battery

SP5 N Wall

Sample Point 4

SP24 N Wall

N32.7204

SWD

28

27

26

18S 28E

W104.152

State 647 AC 711

Ah 3 1ft

AH 2 1ft

AH 1 1ft

N32.7132°

erman RD/217

217

Hagerman Rd

Nearest GW POD RA 09588

33

Untitled Placemark

34

35

Google Earth

©2018 Google

Legend

Excavation 1

Feature 1

Groundwater Record

Sample Point 3

2000 ft

N

Appendix C

Analytical Results



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

June 05, 2019

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX: (575) 393-4388

RE: Breitburn State 14C 9

OrderNo.: 1905D34

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 15 sample(s) on 5/29/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**

Date Reported: **6/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-1 Bottom 3ft

Project: Breitburn State 14C 9

Collection Date: 5/22/2019 1:15:00 PM

Lab ID: 1905D34-001

Matrix: SOIL

Received Date: 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	93	60		mg/Kg	20	5/30/2019 10:04:44 PM	45280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/31/2019 11:11:00 AM	45237
Motor Oil Range Organics (MRO)	66	50		mg/Kg	1	5/31/2019 11:11:00 AM	45237
Surr: DNOP	105	70-130		%Rec	1	5/31/2019 11:11:00 AM	45237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/30/2019 11:35:05 PM	45234
Surr: BFB	89.2	73.8-119		%Rec	1	5/30/2019 11:35:05 PM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/30/2019 11:35:05 PM	45234
Toluene	ND	0.049		mg/Kg	1	5/30/2019 11:35:05 PM	45234
Ethylbenzene	ND	0.049		mg/Kg	1	5/30/2019 11:35:05 PM	45234
Xylenes, Total	ND	0.099		mg/Kg	1	5/30/2019 11:35:05 PM	45234
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	5/30/2019 11:35:05 PM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**Date Reported: **6/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** SP-2 Bottom 3ft**Project:** Breitburn State 14C 9**Collection Date:** 5/22/2019 1:30:00 PM**Lab ID:** 1905D34-002**Matrix:** SOIL**Received Date:** 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	96	60		mg/Kg	20	5/30/2019 10:41:57 PM	45280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/31/2019 11:33:07 AM	45237
Motor Oil Range Organics (MRO)	59	49		mg/Kg	1	5/31/2019 11:33:07 AM	45237
Surr: DNOP	90.3	70-130		%Rec	1	5/31/2019 11:33:07 AM	45237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2019 1:28:54 AM	45234
Surr: BFB	86.6	73.8-119		%Rec	1	5/31/2019 1:28:54 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 1:28:54 AM	45234
Toluene	ND	0.050		mg/Kg	1	5/31/2019 1:28:54 AM	45234
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2019 1:28:54 AM	45234
Xylenes, Total	ND	0.10		mg/Kg	1	5/31/2019 1:28:54 AM	45234
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	5/31/2019 1:28:54 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**

Date Reported: **6/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-3 East Wall

Project: Breitburn State 14C 9

Collection Date: 5/22/2019 2:20:00 PM

Lab ID: 1905D34-003

Matrix: SOIL

Received Date: 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	120	60		mg/Kg	20	5/30/2019 10:54:22 PM	45280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/31/2019 11:55:04 AM	45237
Motor Oil Range Organics (MRO)	57	49		mg/Kg	1	5/31/2019 11:55:04 AM	45237
Surr: DNOP	97.0	70-130		%Rec	1	5/31/2019 11:55:04 AM	45237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2019 1:51:36 AM	45234
Surr: BFB	89.2	73.8-119		%Rec	1	5/31/2019 1:51:36 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 1:51:36 AM	45234
Toluene	ND	0.049		mg/Kg	1	5/31/2019 1:51:36 AM	45234
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2019 1:51:36 AM	45234
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2019 1:51:36 AM	45234
Surr: 4-Bromofluorobenzene	92.4	80-120		%Rec	1	5/31/2019 1:51:36 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**

Date Reported: **6/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-4 West Wall

Project: Breitburn State 14C 9

Collection Date: 5/22/2019 2:35:00 PM

Lab ID: 1905D34-004

Matrix: SOIL

Received Date: 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	100	60		mg/Kg	20	5/30/2019 11:06:47 PM	45280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/31/2019 12:17:05 PM	45237
Motor Oil Range Organics (MRO)	63	50		mg/Kg	1	5/31/2019 12:17:05 PM	45237
Surr: DNOP	108	70-130		%Rec	1	5/31/2019 12:17:05 PM	45237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2019 2:14:15 AM	45234
Surr: BFB	88.4	73.8-119		%Rec	1	5/31/2019 2:14:15 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 2:14:15 AM	45234
Toluene	ND	0.050		mg/Kg	1	5/31/2019 2:14:15 AM	45234
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2019 2:14:15 AM	45234
Xylenes, Total	ND	0.10		mg/Kg	1	5/31/2019 2:14:15 AM	45234
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	5/31/2019 2:14:15 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**

Date Reported: **6/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-5 Bottom 2 ft

Project: Breitburn State 14C 9

Collection Date: 5/23/2019 10:15:00 AM

Lab ID: 1905D34-005

Matrix: SOIL

Received Date: 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	130	60		mg/Kg	20	5/30/2019 11:19:12 PM	45280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	13	9.8		mg/Kg	1	5/31/2019 9:54:47 PM	45237
Motor Oil Range Organics (MRO)	49	49		mg/Kg	1	5/31/2019 9:54:47 PM	45237
Surr: DNOP	72.8	70-130		%Rec	1	5/31/2019 9:54:47 PM	45237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2019 2:36:52 AM	45234
Surr: BFB	87.1	73.8-119		%Rec	1	5/31/2019 2:36:52 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 2:36:52 AM	45234
Toluene	ND	0.049		mg/Kg	1	5/31/2019 2:36:52 AM	45234
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2019 2:36:52 AM	45234
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2019 2:36:52 AM	45234
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	5/31/2019 2:36:52 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**Date Reported: **6/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** SP-6 North Wall**Project:** Breitburn State 14C 9**Collection Date:** 5/23/2019 11:00:00 AM**Lab ID:** 1905D34-006**Matrix:** SOIL**Received Date:** 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	89	60		mg/Kg	20	5/30/2019 11:31:37 PM	45280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	28	10		mg/Kg	1	5/31/2019 1:01:06 PM	45237
Motor Oil Range Organics (MRO)	71	51		mg/Kg	1	5/31/2019 1:01:06 PM	45237
Surr: DNOP	74.3	70-130		%Rec	1	5/31/2019 1:01:06 PM	45237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2019 2:59:30 AM	45234
Surr: BFB	86.9	73.8-119		%Rec	1	5/31/2019 2:59:30 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 2:59:30 AM	45234
Toluene	ND	0.049		mg/Kg	1	5/31/2019 2:59:30 AM	45234
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2019 2:59:30 AM	45234
Xylenes, Total	ND	0.098		mg/Kg	1	5/31/2019 2:59:30 AM	45234
Surr: 4-Bromofluorobenzene	91.3	80-120		%Rec	1	5/31/2019 2:59:30 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**Date Reported: **6/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** SP-7 Bottom 2 ft**Project:** Breitburn State 14C 9**Collection Date:** 5/23/2019 12:15:00 PM**Lab ID:** 1905D34-007**Matrix:** SOIL**Received Date:** 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	130	60		mg/Kg	20	5/30/2019 11:44:01 PM	45280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	13	9.9		mg/Kg	1	5/31/2019 1:22:57 PM	45237
Motor Oil Range Organics (MRO)	59	50		mg/Kg	1	5/31/2019 1:22:57 PM	45237
Surr: DNOP	78.1	70-130		%Rec	1	5/31/2019 1:22:57 PM	45237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2019 3:22:05 AM	45234
Surr: BFB	87.8	73.8-119		%Rec	1	5/31/2019 3:22:05 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 3:22:05 AM	45234
Toluene	ND	0.050		mg/Kg	1	5/31/2019 3:22:05 AM	45234
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2019 3:22:05 AM	45234
Xylenes, Total	ND	0.10		mg/Kg	1	5/31/2019 3:22:05 AM	45234
Surr: 4-Bromofluorobenzene	92.4	80-120		%Rec	1	5/31/2019 3:22:05 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**Date Reported: **6/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** SP-8 South Wall**Project:** Breitburn State 14C 9**Collection Date:** 5/24/2019 10:20:00 AM**Lab ID:** 1905D34-008**Matrix:** SOIL**Received Date:** 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/30/2019 11:56:26 PM	45280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	37	10		mg/Kg	1	5/31/2019 1:45:03 PM	45237
Motor Oil Range Organics (MRO)	79	50		mg/Kg	1	5/31/2019 1:45:03 PM	45237
Surr: DNOP	92.2	70-130		%Rec	1	5/31/2019 1:45:03 PM	45237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2019 3:44:42 AM	45234
Surr: BFB	86.6	73.8-119		%Rec	1	5/31/2019 3:44:42 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 3:44:42 AM	45234
Toluene	ND	0.050		mg/Kg	1	5/31/2019 3:44:42 AM	45234
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2019 3:44:42 AM	45234
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2019 3:44:42 AM	45234
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	5/31/2019 3:44:42 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**Date Reported: **6/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** SP-9 Bottom 2 ft**Project:** Breitburn State 14C 9**Collection Date:** 5/24/2019 10:35:00 AM**Lab ID:** 1905D34-009**Matrix:** SOIL**Received Date:** 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	150	60		mg/Kg	20	5/31/2019 12:33:41 AM	45280
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	16	9.9		mg/Kg	1	5/31/2019 2:06:55 PM	45237
Motor Oil Range Organics (MRO)	70	50		mg/Kg	1	5/31/2019 2:06:55 PM	45237
Surr: DNOP	106	70-130		%Rec	1	5/31/2019 2:06:55 PM	45237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2019 4:07:22 AM	45234
Surr: BFB	89.3	73.8-119		%Rec	1	5/31/2019 4:07:22 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 4:07:22 AM	45234
Toluene	ND	0.050		mg/Kg	1	5/31/2019 4:07:22 AM	45234
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2019 4:07:22 AM	45234
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2019 4:07:22 AM	45234
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	5/31/2019 4:07:22 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**

Date Reported: **6/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-10 North Wall

Project: Breitburn State 14C 9

Collection Date: 5/24/2019 10:45:00 AM

Lab ID: 1905D34-010

Matrix: SOIL

Received Date: 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	140	60		mg/Kg	20	5/31/2019 2:48:32 PM	45301
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	27	10		mg/Kg	1	5/31/2019 2:53:19 PM	45237
Motor Oil Range Organics (MRO)	85	50		mg/Kg	1	5/31/2019 2:53:19 PM	45237
Surr: DNOP	115	70-130		%Rec	1	5/31/2019 2:53:19 PM	45237
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2019 4:30:00 AM	45234
Surr: BFB	89.7	73.8-119		%Rec	1	5/31/2019 4:30:00 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 4:30:00 AM	45234
Toluene	ND	0.050		mg/Kg	1	5/31/2019 4:30:00 AM	45234
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2019 4:30:00 AM	45234
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2019 4:30:00 AM	45234
Surr: 4-Bromofluorobenzene	95.1	80-120		%Rec	1	5/31/2019 4:30:00 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**

Date Reported: **6/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-11 Bottom 2ft

Project: Breitburn State 14C 9

Collection Date: 5/24/2019 11:10:00 AM

Lab ID: 1905D34-011

Matrix: SOIL

Received Date: 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	120	60		mg/Kg	20	5/31/2019 3:25:47 PM	45301
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	16	10		mg/Kg	1	5/31/2019 3:15:17 PM	45238
Motor Oil Range Organics (MRO)	66	50		mg/Kg	1	5/31/2019 3:15:17 PM	45238
Surr: DNOP	97.3	70-130		%Rec	1	5/31/2019 3:15:17 PM	45238
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2019 9:47:13 AM	45234
Surr: BFB	90.2	73.8-119		%Rec	1	5/31/2019 9:47:13 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 9:47:13 AM	45234
Toluene	ND	0.050		mg/Kg	1	5/31/2019 9:47:13 AM	45234
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2019 9:47:13 AM	45234
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2019 9:47:13 AM	45234
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	5/31/2019 9:47:13 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**Date Reported: **6/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** SP-12 South Wall**Project:** Breitburn State 14C 9**Collection Date:** 5/24/2019 1:00:00 PM**Lab ID:** 1905D34-012**Matrix:** SOIL**Received Date:** 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	60		mg/Kg	20	5/31/2019 3:38:11 PM	45301
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	55	10		mg/Kg	1	6/3/2019 10:44:13 PM	45238
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	6/3/2019 10:44:13 PM	45238
Surr: DNOP	111	70-130		%Rec	1	6/3/2019 10:44:13 PM	45238
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2019 10:10:53 AM	45234
Surr: BFB	92.7	73.8-119		%Rec	1	5/31/2019 10:10:53 AM	45234
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/31/2019 10:10:53 AM	45234
Toluene	ND	0.049		mg/Kg	1	5/31/2019 10:10:53 AM	45234
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2019 10:10:53 AM	45234
Xylenes, Total	ND	0.098		mg/Kg	1	5/31/2019 10:10:53 AM	45234
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	5/31/2019 10:10:53 AM	45234

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**

Date Reported: **6/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-13 Bottom 2 ft

Project: Breitburn State 14C 9

Collection Date: 5/24/2019 1:25:00 PM

Lab ID: 1905D34-013

Matrix: SOIL

Received Date: 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	130	60		mg/Kg	20	5/31/2019 3:50:35 PM	45301
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	21	10		mg/Kg	1	5/31/2019 4:43:30 PM	45238
Motor Oil Range Organics (MRO)	75	50		mg/Kg	1	5/31/2019 4:43:30 PM	45238
Surr: DNOP	97.9	70-130		%Rec	1	5/31/2019 4:43:30 PM	45238
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/30/2019 3:39:31 PM	45242
Surr: BFB	87.7	73.8-119		%Rec	1	5/30/2019 3:39:31 PM	45242
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/30/2019 3:39:31 PM	45242
Toluene	ND	0.050		mg/Kg	1	5/30/2019 3:39:31 PM	45242
Ethylbenzene	ND	0.050		mg/Kg	1	5/30/2019 3:39:31 PM	45242
Xylenes, Total	ND	0.099		mg/Kg	1	5/30/2019 3:39:31 PM	45242
Surr: 4-Bromofluorobenzene	88.2	80-120		%Rec	1	5/30/2019 3:39:31 PM	45242

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**

Date Reported: **6/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-14 North Wall

Project: Breitburn State 14C 9

Collection Date: 5/24/2019 2:15:00 PM

Lab ID: 1905D34-014

Matrix: SOIL

Received Date: 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	130	60		mg/Kg	20	5/31/2019 4:27:49 PM	45301
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	25	8.7		mg/Kg	1	5/31/2019 5:05:24 PM	45238
Motor Oil Range Organics (MRO)	91	44		mg/Kg	1	5/31/2019 5:05:24 PM	45238
Surr: DNOP	104	70-130		%Rec	1	5/31/2019 5:05:24 PM	45238
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/30/2019 4:47:18 PM	45242
Surr: BFB	92.5	73.8-119		%Rec	1	5/30/2019 4:47:18 PM	45242
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/30/2019 4:47:18 PM	45242
Toluene	ND	0.049		mg/Kg	1	5/30/2019 4:47:18 PM	45242
Ethylbenzene	ND	0.049		mg/Kg	1	5/30/2019 4:47:18 PM	45242
Xylenes, Total	ND	0.098		mg/Kg	1	5/30/2019 4:47:18 PM	45242
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	5/30/2019 4:47:18 PM	45242

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1905D34**Date Reported: **6/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** SP-15 Bottom 2 ft**Project:** Breitburn State 14C 9**Collection Date:** 5/24/2019 3:15:00 PM**Lab ID:** 1905D34-015**Matrix:** SOIL**Received Date:** 5/29/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	120	60		mg/Kg	20	5/31/2019 4:40:14 PM	45301
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	11	9.6		mg/Kg	1	5/31/2019 5:27:36 PM	45238
Motor Oil Range Organics (MRO)	58	48		mg/Kg	1	5/31/2019 5:27:36 PM	45238
Surr: DNOP	75.7	70-130		%Rec	1	5/31/2019 5:27:36 PM	45238
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/30/2019 5:55:15 PM	45242
Surr: BFB	88.3	73.8-119		%Rec	1	5/30/2019 5:55:15 PM	45242
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/30/2019 5:55:15 PM	45242
Toluene	ND	0.050		mg/Kg	1	5/30/2019 5:55:15 PM	45242
Ethylbenzene	ND	0.050		mg/Kg	1	5/30/2019 5:55:15 PM	45242
Xylenes, Total	ND	0.10		mg/Kg	1	5/30/2019 5:55:15 PM	45242
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	5/30/2019 5:55:15 PM	45242

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1905D34

05-Jun-19

Client: Safety & Environmental Solutions

Project: Breitburn State 14C 9

Sample ID: MB-45280	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 45280	RunNo: 60279								
Prep Date: 5/30/2019	Analysis Date: 5/30/2019	SeqNo: 2038238	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-45280	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 45280	RunNo: 60279								
Prep Date: 5/30/2019	Analysis Date: 5/30/2019	SeqNo: 2038239	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.3	90	110			

Sample ID: MB-45301	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 45301	RunNo: 60337								
Prep Date: 5/31/2019	Analysis Date: 5/31/2019	SeqNo: 2039845	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-45301	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 45301	RunNo: 60337								
Prep Date: 5/31/2019	Analysis Date: 5/31/2019	SeqNo: 2039846	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1905D34

05-Jun-19

Client: Safety & Environmental Solutions

Project: Breitburn State 14C 9

Sample ID: LCS-45238	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 45238		RunNo: 60253							
Prep Date: 5/29/2019	Analysis Date: 5/30/2019		SeqNo: 2036196		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	63.9	124			
Surr: DNOP	4.7		5.000		94.5	70	130			

Sample ID: MB-45238	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 45238		RunNo: 60253							
Prep Date: 5/29/2019	Analysis Date: 5/30/2019		SeqNo: 2036206		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.9	70	130			

Sample ID: LCS-45237	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 45237		RunNo: 60254							
Prep Date: 5/29/2019	Analysis Date: 5/30/2019		SeqNo: 2036242		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.2	63.9	124			
Surr: DNOP	4.7		5.000		93.1	70	130			

Sample ID: MB-45237	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 45237		RunNo: 60254							
Prep Date: 5/29/2019	Analysis Date: 5/30/2019		SeqNo: 2036243		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.7	70	130			

Sample ID: 1905D34-011AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: SP-11 Bottom 2ft	Batch ID: 45238		RunNo: 60296							
Prep Date: 5/29/2019	Analysis Date: 5/31/2019		SeqNo: 2039111		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	49.90	15.74	74.0	57	142			
Surr: DNOP	4.4		4.990		87.5	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1905D34

05-Jun-19

Client: Safety & Environmental Solutions

Project: Breitburn State 14C 9

Sample ID: 1905D34-011AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	SP-11 Bottom 2ft	Batch ID: 45238		RunNo: 60296						
Prep Date:	5/29/2019	Analysis Date: 5/31/2019		SeqNo: 2039112			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.30	15.74	79.4	57	142	5.56	20	
Surr: DNOP	4.4		5.030		88.5	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1905D34

05-Jun-19

Client: Safety & Environmental Solutions

Project: Breitburn State 14C 9

Sample ID: MB-45242	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 45242	RunNo: 60276
Prep Date: 5/29/2019	Analysis Date: 5/30/2019	SeqNo: 2037655 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND	5.0
Surr: BFB	900	1000 90.2 73.8 119

Sample ID: LCS-45242	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 45242	RunNo: 60276
Prep Date: 5/29/2019	Analysis Date: 5/30/2019	SeqNo: 2037656 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	23	5.0 25.00 0 90.7 80.1 123
Surr: BFB	1000	1000 101 73.8 119

Sample ID: 1905D34-013AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: SP-13 Bottom 2 ft	Batch ID: 45242	RunNo: 60276
Prep Date: 5/29/2019	Analysis Date: 5/30/2019	SeqNo: 2037658 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	24	5.0 24.95 0 96.8 69.1 142
Surr: BFB	1000	998.0 102 73.8 119

Sample ID: 1905D34-013AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range
Client ID: SP-13 Bottom 2 ft	Batch ID: 45242	RunNo: 60276
Prep Date: 5/29/2019	Analysis Date: 5/30/2019	SeqNo: 2037659 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	25	5.0 24.95 0 100 69.1 142 3.57 20
Surr: BFB	1000	998.0 102 73.8 119 0 0

Sample ID: MB-45234	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 45234	RunNo: 60276
Prep Date: 5/29/2019	Analysis Date: 5/30/2019	SeqNo: 2037664 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND	5.0
Surr: BFB	920	1000 91.7 73.8 119

Sample ID: LCS-45234	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 45234	RunNo: 60276
Prep Date: 5/29/2019	Analysis Date: 5/30/2019	SeqNo: 2037665 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1905D34

05-Jun-19

Client: Safety & Environmental Solutions

Project: Breitburn State 14C 9

Sample ID: LCS-45234	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 45234		RunNo: 60276							
Prep Date: 5/29/2019	Analysis Date: 5/30/2019		SeqNo: 2037665		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.6	80.1	123			
Surr: BFB	1000		1000		102	73.8	119			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1905D34

05-Jun-19

Client: Safety & Environmental Solutions

Project: Breitburn State 14C 9

Sample ID: MB-45242		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 45242		RunNo: 60276						
Prep Date: 5/29/2019		Analysis Date: 5/30/2019		SeqNo: 2037690		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	80	120			

Sample ID: LCS-45242		SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS		Batch ID: 45242			RunNo: 60276					
Prep Date: 5/29/2019		Analysis Date: 5/30/2019			SeqNo: 2037691		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID: 1905D34-014AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID: SP-14 North Wall		Batch ID: 45242		RunNo: 60276						
Prep Date: 5/29/2019		Analysis Date: 5/30/2019		SeqNo: 2037694		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9911	0	113	63.9	127			
Toluene	1.1	0.050	0.9911	0	115	69.9	131			
Ethylbenzene	1.1	0.050	0.9911	0	115	71	132			
Xylenes, Total	3.3	0.099	2.973	0	112	71.8	131			
Surr: 4-Bromofluorobenzene	1.0		0.9911		104	80	120			

Sample ID: 1905D34-014AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID:	SP-14 North Wall	Batch ID: 45242		RunNo: 60276						
Prep Date:	5/29/2019	Analysis Date: 5/30/2019		SeqNo: 2037695		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.025	0.9862	0	130	63.9	127	13.0	20	S
Toluene	1.3	0.049	0.9862	0	132	69.9	131	13.5	20	S
Ethylbenzene	1.3	0.049	0.9862	0	134	71	132	14.5	20	S
Xylenes, Total	3.9	0.099	2.959	0	131	71.8	131	15.4	20	S
Surr: 4-Bromofluorobenzene	1.0		0.9862		105	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1905D34

05-Jun-19

Client: Safety & Environmental Solutions

Project: Breitburn State 14C 9

Sample ID: MB-45234	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 45234	RunNo: 60276								
Prep Date: 5/29/2019	Analysis Date: 5/30/2019	SeqNo: 2037697			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	80	120			

Sample ID: LCS-45234	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 45234	RunNo: 60276								
Prep Date: 5/29/2019	Analysis Date: 5/30/2019	SeqNo: 2037698			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: 1905D34-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SP-1 Bottom 3ft	Batch ID: 45234	RunNo: 60276								
Prep Date: 5/29/2019	Analysis Date: 5/30/2019	SeqNo: 2037700			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9891	0	110	63.9	127			
Toluene	1.1	0.049	0.9891	0	111	69.9	131			
Ethylbenzene	1.1	0.049	0.9891	0	112	71	132			
Xylenes, Total	3.2	0.099	2.967	0	107	71.8	131			
Surr: 4-Bromofluorobenzene	1.0		0.9891		102	80	120			

Sample ID: 1905D34-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SP-1 Bottom 3ft	Batch ID: 45234	RunNo: 60276								
Prep Date: 5/29/2019	Analysis Date: 5/31/2019	SeqNo: 2037701			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9990	0	113	63.9	127	4.11	20	
Toluene	1.1	0.050	0.9990	0	114	69.9	131	3.89	20	
Ethylbenzene	1.2	0.050	0.9990	0	115	71	132	4.27	20	
Xylenes, Total	3.4	0.10	2.997	0	112	71.8	131	5.57	20	
Surr: 4-Bromofluorobenzene	1.0		0.9990		105	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

email or Fax#:

Analysis Request

☐ Level 4 (Full Validation)

Sampler:

On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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of Coolers: 1

Cooler Temp (including CEI): 15°C - 16°C - 15°C

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Container	Preservative	HEAL No
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Container	Preservative Type and #	Serial No.
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[illegible]

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100

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $\epsilon \rightarrow 0$. It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

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[illegible]

Received by: Via: Date: Time:

5/28/99 0802

Received by:	Via:	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	<i>11/20/11</i>	<i>10:00</i>

Received by: Leurier Date: 11/11/11

5-29-58

contracted to other accredited laboratories. This serves as notice of this

August 30, 2018

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRE-18-006

Enclosed are the results of analyses for samples received by the laboratory on 08/28/18 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 1 3' (H802405-01)

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	08/28/2018	ND	1.86	93.0	2.00	0.672	
Toluene*	<0.050	0.050	08/28/2018	ND	1.80	90.0	2.00	1.12	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	1.83	91.5	2.00	1.18	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	5.56	92.6	6.00	1.13	
Total BTEX	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	08/29/2018	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	08/28/2018	ND	206	103	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	196	98.0	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 1 5' (H802405-02)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/29/2018	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	08/28/2018	ND	206	103	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	196	98.0	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 1 6' (H802405-03)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/29/2018	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	08/28/2018	ND	206	103	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	196	98.0	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 1 7' (H802405-04)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEX	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/29/2018	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	08/28/2018	ND	206	103	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	196	98.0	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 1 8' (H802405-05)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/29/2018	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	08/28/2018	ND	206	103	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	196	98.0	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					

Surrogate: 1-Chlorooctane 98.8 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

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 703 East Clinton
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 Fax To: (575) 393-4388

Received: 08/28/2018
 Reported: 08/30/2018
 Project Name: BRE-18-006
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/27/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT - 1 16' (H802405-06)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTX	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/29/2018	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	08/28/2018	ND	206	103	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	196	98.0	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Fax To: (575) 393-4388

Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 2 2' (H802405-07)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/29/2018	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	08/28/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 96.6 % 37.6-147

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Bob Allen
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Fax To: (575) 393-4388

Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 2 3' (H802405-08)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/29/2018	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	08/28/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/28/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/28/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 93.1 % 37.6-147

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Fax To: (575) 393-4388

Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 2 4' (H802405-09)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEX	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

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	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 2 16' (H802405-10)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

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	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

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Analytical Results For:

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 Bob Allen
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 Received: 08/28/2018
 Reported: 08/30/2018
 Project Name: BRE-18-006
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/27/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT - 3 3' (H802405-11)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 93.8 % 37.6-147

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Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 3 4' (H802405-12)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 94.4 % 37.6-147

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Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 3 5' (H802405-13)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 98.3 % 37.6-147

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Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 3 6' (H802405-14)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

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	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 99.8 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 3 16' (H802405-15)

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	08/28/2018	ND	1.98	99.1	2.00	5.80		
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83		
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06		
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47		
Total BTEx	<0.300	0.300	08/28/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

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Analytical Results For:

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 Hobbs NM, 88240
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 Received: 08/28/2018
 Reported: 08/30/2018
 Project Name: BRE-18-006
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/27/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 5 SOUTH WALL (H802405-16)

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	08/28/2018	ND	1.98	99.1	2.00	5.80		
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83		
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06		
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47		
Total BTEx	<0.300	0.300	08/28/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

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	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 96.4 % 37.6-147

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Analytical Results For:

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Bob Allen
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Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 6 SOUTH WALL (H802405-17)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500CI-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	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 96.2 % 37.6-147

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 Bob Allen
 703 East Clinton
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 Fax To: (575) 393-4388

 Received: 08/28/2018
 Reported: 08/30/2018
 Project Name: BRE-18-006
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/27/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 7 EAST WALL (H802405-18)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

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	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 96.0 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	08/28/2018	Sampling Date:	08/27/2018
Reported:	08/30/2018	Sampling Type:	Soil
Project Name:	BRE-18-006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 8 NORTH WALL (H802405-19)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTX	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 97.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 9 NORTH WALL (H802405-20)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500CI-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	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 97.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 08/28/2018
Reported: 08/30/2018
Project Name: BRE-18-006
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 10 NORTH WALL (H802405-21)

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	08/28/2018	ND	1.98	99.1	2.00	5.80	
Toluene*	<0.050	0.050	08/28/2018	ND	2.03	101	2.00	5.83	
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	2.08	104	2.00	7.06	
Total Xylenes*	<0.150	0.150	08/28/2018	ND	6.07	101	6.00	7.47	
Total BTEx	<0.300	0.300	08/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 98.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	08/28/2018	Sampling Date:	08/27/2018
Reported:	08/30/2018	Sampling Type:	Soil
Project Name:	BRE-18-006	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 11 WEST WALL (H802405-22)

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	08/28/2018	ND	1.80	90.1	2.00	7.30		
Toluene*	<0.050	0.050	08/28/2018	ND	1.75	87.3	2.00	7.93		
Ethylbenzene*	<0.050	0.050	08/28/2018	ND	1.76	88.2	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/28/2018	ND	5.27	87.9	6.00	7.56		
Total BTEX	<0.300	0.300	08/28/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.8-142

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	08/29/2018	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	08/29/2018	ND	202	101	200	0.897	
DRO >C10-C28*	<10.0	10.0	08/29/2018	ND	211	105	200	0.543	
EXT DRO >C28-C36	<10.0	10.0	08/29/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Safety and Environmental Solutions		BILL TO		ANALYSIS REQUEST	
Project Manager: Bob Allen		P.O. #:			
Address: 703 East Clinton, PO Box 1613		Company: Same			
City: Hobbs		Attn:			
Phone #: 575 397-0510		Address:			
Fax #: 575 393-4388		City:			
Project #: RE-18-006		State:			
Project Owner:		Zip:			
Project Name:		Phone #:			
Project Location:		Fax #:			
Sampler Name:		SAMPLING			
FOR LAB USE ONLY		PRESERV			
Lab I.D.		DATE		TIME	
Sample I.D.		DATE		TIME	
(G)RAB OR (C)OMP.		DATE		TIME	
# CONTAINERS		DATE		TIME	
GROUNDWATER		DATE		TIME	
WASTEWATER		DATE		TIME	
SOIL		DATE		TIME	
OIL		DATE		TIME	
SLUDGE		DATE		TIME	
OTHER :		DATE		TIME	
ACID/BASE:		DATE		TIME	
ICE / COOL		DATE		TIME	
OTHER :		DATE		TIME	
DATE		DATE		TIME	
TIME		DATE		TIME	
TPH (8015 Gx)		DATE		TIME	
BTEX		DATE		TIME	
Chlorides (4500)		DATE		TIME	
Add'l Phone #:		DATE		TIME	
Fax Result:		DATE		TIME	
REMARKS:		DATE		TIME	
Relinquished By:		DATE		TIME	
Received By:		DATE		TIME	
Delivered By: (Circle One)		DATE		TIME	
Sampler - UPS - Bus - Other:		DATE		TIME	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Page 26 of 27



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

Page 27 of 27

Appendix D

Site Photos

Breitburn State 14
Drone Photos-7/2/2018



Aerial view of spill area



1' of surface removal (caliche)

Breitburn State 14

Remediation



Appendix E

Disposal Manifests

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

m.mata

NON-HAZARDOUS WASTE MANIFEST

NO **129833**

1. PAGE ____ OF ____

2. TRAILER NO. **150**

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3. COMPANY NAME

Bryantburg
Bryantburg Operating LP
PHONE NO.

4. ADDRESS

1111 Bagsby Street Suite 1800

CITY

STATE

ZIP

Houston

TX

77002

5. PICK-UP DATE

5/22/2019

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. *Non-Regulated, Non Hazardous Waste*

b.

c.

d. *43020*

8. CONTAINERS
No. Type

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

1

CM

12. COMMENTS OR SPECIAL INSTRUCTIONS:

STATE 14 C

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

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16. TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

Santa Monica

1

5/22/2019

1:45

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

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2. TRAILER NO.

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3. COMPANY NAME

Erstam Operating LP
PHONE NO.

4. ADDRESS

1111 Bagsby Street Suite 1600

CITY

STATE

ZIP

Houston

TX

77002

5. PICK-UP DATE

5/22/2019

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non Hazardous Waste

b.

c.

d. 4,4,4,4

8. CONTAINERS

No.

Type

1

CM

9. TOTAL QUANTITY

10. UNIT Wt/Vol.

11. TEXAS WASTE ID

12. COMMENTS OR SPECIAL INSTRUCTIONS:

STATE 14 C

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

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16.

TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

ADDRESS:

Lea Land, LLC

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

5/22/2019

TIME

1:55

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 2

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

129884

1. PAGE ___ OF ___

2. TRAILER NO. 5

GENERATOR'S CERTIFICATION

3. COMPANY NAME

Bretburn Operating LP

PHONE NO.

4. ADDRESS

1111 Bagsby Street Suite 1000

CITY

STATE

ZIP

Houston

TX

77002

5. PICK-UP DATE

5/24/2019

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d.

WT: 4,120 40,680

8. CONTAINERS

No.

Type

9. TOTAL QUANTITY

10. UNIT Wt/Vol.

11. TEXAS WASTE ID

1

CM

12. COMMENTS OR SPECIAL INSTRUCTIONS:

STATE 14 C #9

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

TRANSPORTER'S

16.

TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

DISPOSAL SITE

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

Antonio Gonzalez

5/24/2019

9:45

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO **129885**

1. PAGE OF

2. TRAILER NO. **18-1**

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3. COMPANY NAME

Breitburn Operating LP
PHONE NO.

4. ADDRESS

1111 Bagsby Street Suite 1600

CITY

STATE

ZIP

Houston

TX

77002

5. PICK-UP DATE

5/24/2019

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS
No. Type

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

a. Non-Regulated, Non Hazardous Waste

1

CM

b.

c.

d. 38440 40020

12. COMMENTS OR SPECIAL INSTRUCTIONS:

STATE 14 C #9

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

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16.

TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE 5/24/2019

TIME 9:50

GENERATOR: COPIES 1 & 2

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

129886

1. PAGE ___ OF ___

2. TRAILER NO.

51

G

3. COMPANY NAME

Breitburn Operating LP

PHONE NO.

4. ADDRESS

1111 Bagsby Street Suite 1000

CITY

STATE

ZIP

Houston

TX

77002

5. PICK-UP DATE

5/24/2019

6. TNRC I.D. NO.

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS
No. Type

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

N

a. Non-Regulated, Non Hazardous Waste

1

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c.

R

12. COMMENTS OR SPECIAL INSTRUCTIONS:

STATE 14 C #9

13. WASTE PROFILE NO.

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14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

O

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16.

TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE 5/24/2019

TIME

9:55

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

CDV 2

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO 129906

1. PAGE ___ OF ___

2. TRAILER NO. 150

GENERATOR'S CERTIFICATION

3. COMPANY NAME

Breitour Operating LP

PHONE NO.

4. ADDRESS

1111 Bagsby Street Suite 1800

CITY

STATE

ZIP

Houston

TX

77002

5. PICK-UP DATE

5/28/2019

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non Hazardous Waste

b.

c.

d. 44020 44220 44680

8. CONTAINERS

No.

Type

9. TOTAL QUANTITY

10. UNIT Wt/Vol.

11. TEXAS WASTE ID

12. COMMENTS OR SPECIAL INSTRUCTIONS:

STATE 14 C #9

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

16. TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

ADDRESS:

Lea Land, LLC

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

RDR Eagle
5/28/2019

NON-HAZARDOUS WASTE MANIFEST

NO 129907

1. PAGE ___ OF ___

2. TRAILER NO. 516

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3. COMPANY NAME

Bretburn Operating LP

PHONE NO.

4. ADDRESS

1111 Bagsby Street Suite 1600

CITY

STATE

ZIP

Houston

TX

77002

5. PICK-UP DATE

5/28/2019

6. TNRC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non Hazardous Waste

b.

c.

d. 379LD 36,540 31,400

12. COMMENTS OR SPECIAL INSTRUCTIONS:

STATE 14 C #9

TO 106,200

13. WASTE PROFILE NO.

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

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16. TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE 5/28/2019

TIME

10:00

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

129923

1. PAGE ___ OF ___

2. TRAILER NO. 5

G

3. COMPANY NAME

Bretburn Operating LP

PHONE NO.

4. ADDRESS

1711 Sagsby Street Suite 1600

CITY

Houston

STATE

TX

ZIP

77002

5. PICK-UP DATE

5/28/2019

6. TNRCC I.D. NO.

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS
No. Type

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

N

a. Non-Regulated, Non Hazardous Waste

E

b.

R

c.

d. 3414D 3922D

A

12. COMMENTS OR SPECIAL INSTRUCTIONS:

STATE ISC #8

TC 710810

13. WASTE PROFILE NO.

T

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

JOE ONTIVEROS

PHONE NO

575-887-4048

24-HOUR EMERGENCY NO.

O

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16.

TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE 5/28/2019

TIME 30

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

129947

1. PAGE ____ OF ____

2. TRAILER NO. *36*

G

3. COMPANY NAME

Breitburn Operating LP

PHONE NO.

4. ADDRESS

1771 Sagsby Street Suite 1600

CITY

Houston

STATE

TX

ZIP

77002

5. PICK-UP DATE

5-23-2019

6. TNRCC I.D. NO.

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS
No. Type

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

N

a. Non-Regulated, Non Hazardous Waste

1

CM

E

b.

R

d. *33,960 41,300 31,520*

A

12. COMMENTS OR SPECIAL INSTRUCTIONS:

STATE 14 C #9

13. WASTE PROFILE NO.

T

14.

IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

JOE ONTIVEROS

PHONE NO

575-887-4048

24-HOUR EMERGENCY NO.

O

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16.

TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE 5/29/2019

TIME

10:45

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

NON-HAZARDOUS WASTE MANIFEST

NO

129964

1. PAGE ____ OF ____

2. TRAILER NO. **RDR #516**

GENERATOR'S CERTIFICATION	3. COMPANY NAME Braitburn Operating LP PHONE NO.		4. ADDRESS 1111 Bagsby Street Suite 1600 CITY: Houston STATE: TX ZIP: 77002		5. PICK-UP DATE 5/30/2019	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste				1	CM
	b.					
	c.					
	d. WT: 34000 25,740					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: STATE 14 C #8				13. WASTE PROFILE NO.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					
	NAME JOE ONTIVEROS		PHONE NO 575-887-4048		24-HOUR EMERGENCY NO.	
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
PRINTED/TYPED NAME			SIGNATURE			DATE
TRANSPORTERS	16. TRANSPORTER (1)			17. TRANSPORTER (2)		
	NAME:			NAME:		
	TEXAS I.D. NO. CUSTOM WELDING			TEXAS I.D. NO.		
	IN CASE OF EMERGENCY CONTACT: BILLY STEWART			IN CASE OF EMERGENCY CONTACT:		
EMERGENCY PHONE: (575) 631-4740			EMERGENCY PHONE:			
18. TRANSPORTER (1): Acknowledgment of receipt of material			19. TRANSPORTER (2): Acknowledgment of receipt of material			
PRINTED/TYPED NAME Jorge L. Rio			PRINTED/TYPED NAME			
SIGNATURE [Signature] DATE 5/30/2019			SIGNATURE DATE			
DISPOSAL SITE	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM		PHONE: 575-887-4048	
	PERMIT NO. WM-01-035 - New Mexico		20. COMMENTS			
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					
	AUTHORIZED SIGNATURE [Signature]		CELL NO.		DATE 5/30/2019	TIME 10.30

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5