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@maverickresouces.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		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 CI 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						
	втех	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 SM4500CI-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-	Total	Total	Chlorides	TPH	TPH	EXT		
			benzene	Xylenes	BTEX		GRO	DRO	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 Mothed 200	DRO	MRO Mathad	GRO	BTEX					
	Method 300	Method 8015M/D	Method 8015M	Method 8015D	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 form 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 Breitburn 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

	SP 9 North Wall	SP14 N Wall CSP 8 No
SP-10 North Wall SP6 N Wall TT 2	SP11 Bottom 2'	SP13 Bottom 2' TT 3
SP5 Bottom 2' SP5 Bottom 2' SP5 Bottom 2' SP7 Bottom 2' SP8 S-Wall-	SP 5 South Wall	SP-6-South-Wall SP12 S Wall
SR 11 West Wall		1 20: 0 1 a .
TP1		
	W104.148°	
SP3 E Wall	18S 28E	
A start and a star		100 C

SP1 Bottom 3'

Google Earth

Legend

- Excavation 1
- 0 Spill Area
- 🍰 Pipeline 2
- Sample Position

SP 7 East Wall

• Wall

Sample Point 16



Appendix A C-141

Form C-141 Page 6 State of New Mexico Oil Conservation Division

Incident ID	
District RP	1
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 ODC 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: <u>3/5/2019</u>					
email: Thomas.haigood@maverickresources.com	Telephone: <u>432-523-1807</u>					
OCD Only						
Received by:	Date:					
Closure approval by the OCD does not relieve the responsible party or remediate contamination that poses a threat to groundwater, surface w party of compliance with any other federal, state, or local laws and/or	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible regulations.					
Closure Approved by:	Date:					
Printed Name:	Title:					

Appendix B Groundwater

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*



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)	(quarte				IE 3=SW largest)	,	3 UTM in meters)		(In feet)
	POD Sub-				_				-	Depth	
POD Number	Code basin C	ounty 6	64 16 ·	4 See	c Tws	Rng	X	Y	Well	Water	Column
RA 09588		ED	1 2	2 33	18S	28E	576976	3619384* 🌍	300		
								Average Depth to	Water:		
								Minimum	n Depth:		
								Maximum	Depth:		
Record Count: 1											

ecora Count:

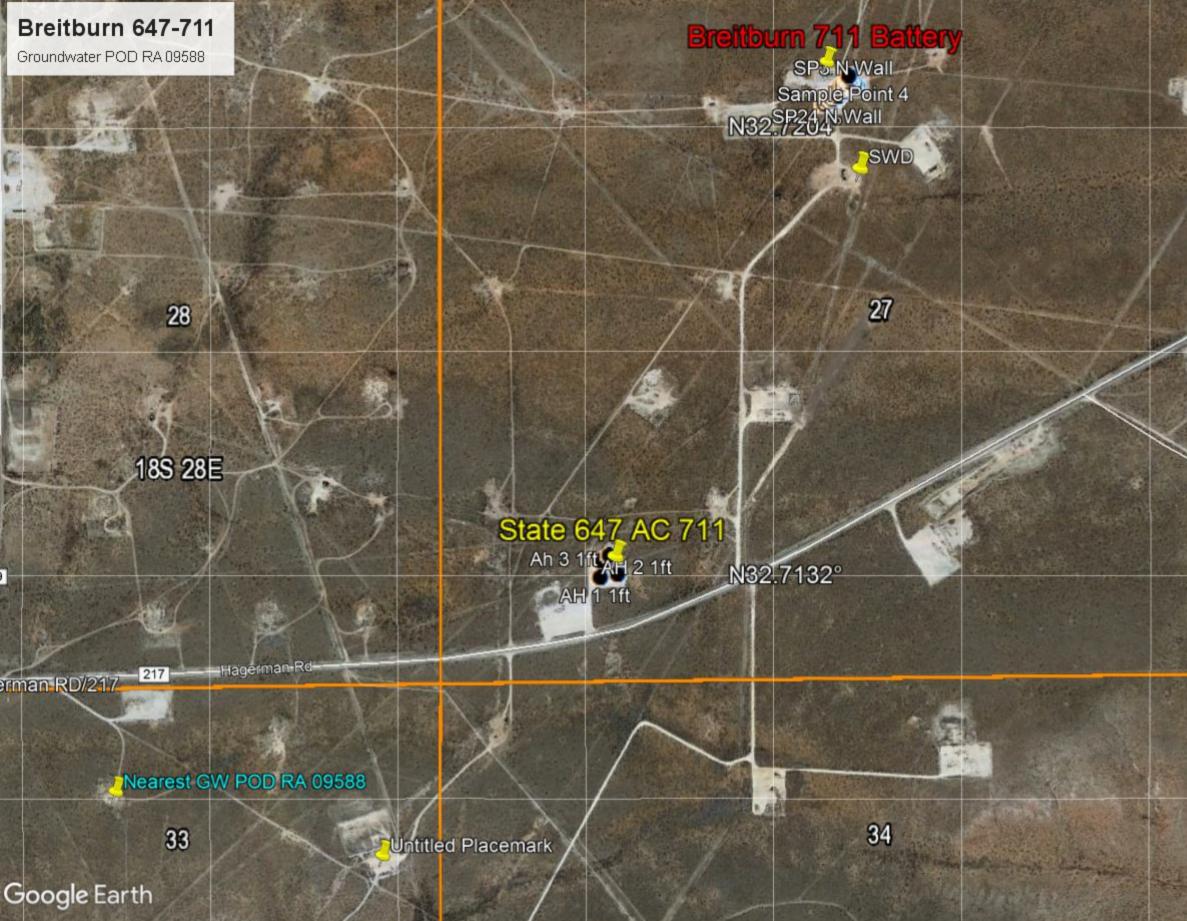
PLSS Search:

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.



@2018 Google



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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 6/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Breitburn State 14C 9

Project:

Client Sample ID: SP-1 Bottom 3ft Collection Date: 5/22/2019 1:15:00 PM Received Date: 5/29/2019 8:50:00 AM

Lab ID: 1905D34-001	Matrix: SOIL		Received Dat	ceived 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 RANG	E 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 RAN	GE				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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Breitburn State 14C 9

Project:

Date Reported: 6/5/2019 Client Sample ID: SP-2 Bottom 3ft Collection Date: 5/22/2019 1:30:00 PM Baseived Date: 5/20/2010 8:50:00 AM

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	ТОМ			
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 RANG	E				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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Breitburn State 14C 9

Project:

Date Reported: 6/5/2019 Client Sample ID: SP-3 East Wall Collection Date: 5/22/2019 2:20:00 PM Baseived Date: 5/20/2010 8:50:00 AM

Lab ID: 1905D34-003	Matrix: SOIL Received Date: 5/29/				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	ТОМ
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 RANG	E				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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/5/2019

5/31/2019 2:14:15 AM

45234

Hall Environmental Analysis Laboratory, Inc.

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 Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **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 5/31/2019 12:17:05 PM 45237 50 mg/Kg 1 Surr: DNOP 108 %Rec 5/31/2019 12:17:05 PM 45237 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 5/31/2019 2:14:15 AM Gasoline Range Organics (GRO) ND 5.0 45234 mg/Kg 1 Surr: BFB 88.4 73.8-119 %Rec 5/31/2019 2:14:15 AM 45234 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 5/31/2019 2:14:15 AM 45234 mg/Kg 1 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 5/31/2019 2:14:15 AM 45234 1

94.2

80-120

%Rec

1

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

Qualifiers:

*

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Surr: 4-Bromofluorobenzene

% Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/5/2019

5/31/2019 2:36:52 AM

5/31/2019 2:36:52 AM

5/31/2019 2:36:52 AM

45234

45234

45234

Hall Environmental Analysis Laboratory, Inc.

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 Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **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 %Rec 5/31/2019 9:54:47 PM 45237 72.8 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 5/31/2019 2:36:52 AM Gasoline Range Organics (GRO) ND 45234 4.9 mg/Kg 1 Surr: BFB 87.1 73.8-119 %Rec 5/31/2019 2:36:52 AM 45234 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND Benzene 0.025 5/31/2019 2:36:52 AM 45234 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/31/2019 2:36:52 AM 45234

ND

ND

93.6

0.049

0.099

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

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

Qualifiers:

*

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Value exceeds Maximum Contaminant Level.

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL
 - Reporting Limit

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Date Reported: 6/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Breitburn State 14C 9

Project:

Client Sample ID: SP-6 North Wall Collection Date: 5/23/2019 11:00:00 AM Received Date: 5/29/2019 8:50:00 AM

Lab ID: 1905D34-006	Matrix: SOIL	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 RANG	E 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 RANG	GE				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.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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Analytical Report

5/31/2019 3:22:05 AM

45234

Hall Environmental Analysis Laboratory, Inc.

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 Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **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 %Rec 5/31/2019 1:22:57 PM 45237 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND 5/31/2019 3:22:05 AM Gasoline Range Organics (GRO) 5.0 45234 mg/Kg 1 Surr: BFB 87.8 73.8-119 %Rec 5/31/2019 3:22:05 AM 45234 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND Benzene 0.025 5/31/2019 3:22:05 AM 45234 mg/Kg 1 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 5/31/2019 3:22:05 AM 45234 1

92.4

80-120

%Rec

1

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

Qualifiers:

*

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Surr: 4-Bromofluorobenzene

% Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- - RL Reporting Limit

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Lab Order 1905D34 Date Reported: 6/5/2019

Analytical Report Lab Order 1905D34 Date Reported: 6/5/2019

Hall Environmental Analysis Laboratory, Inc.

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 Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **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 5/31/2019 1:45:03 PM 50 mg/Kg 1 45237 Surr: DNOP 92.2 %Rec 5/31/2019 1:45:03 PM 45237 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5.0 5/31/2019 3:44:42 AM 45234 mg/Kg 1 Surr: BFB 86.6 73.8-119 %Rec 5/31/2019 3:44:42 AM 45234 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND Benzene 0.025 5/31/2019 3:44:42 AM 45234 mg/Kg 1 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 5/31/2019 3:44:42 AM 45234 1 Surr: 4-Bromofluorobenzene 92.3 5/31/2019 3:44:42 AM 80-120 %Rec 1 45234

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

Qualifiers:

*

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 6/5/2019

5/31/2019 4:07:22 AM

45234

Hall Environmental Analysis Laboratory, Inc.

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 Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **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 5/31/2019 2:06:55 PM 50 mg/Kg 1 45237 Surr: DNOP 106 %Rec 5/31/2019 2:06:55 PM 45237 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 5/31/2019 4:07:22 AM Gasoline Range Organics (GRO) ND 5.0 45234 mg/Kg 1 Surr: BFB 89.3 73.8-119 %Rec 5/31/2019 4:07:22 AM 45234 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND Benzene 0.025 5/31/2019 4:07:22 AM 45234 mg/Kg 1 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 5/31/2019 4:07:22 AM 45234 1

94.6

80-120

%Rec

1

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

Qualifiers:

*

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Surr: 4-Bromofluorobenzene

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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[%] Recovery outside of range due to dilution or matrix S

Date Reported: 6/5/2019

Hall Environmental Analysis Laboratory, Inc.

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 Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **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 %Rec 5/31/2019 2:53:19 PM 45237 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 5/31/2019 4:30:00 AM Gasoline Range Organics (GRO) ND 5.0 45234 mg/Kg 1 Surr: BFB 89.7 73.8-119 %Rec 5/31/2019 4:30:00 AM 45234 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND Benzene 0.025 5/31/2019 4:30:00 AM 45234 mg/Kg 1 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 5/31/2019 4:30:00 AM 45234 1 5/31/2019 4:30:00 AM Surr: 4-Bromofluorobenzene 95.1 80-120 %Rec 1 45234

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

Qualifiers:

*

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905D34

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Breitburn State 14C 9

Project:

Client Sample ID: SP-11 Bottom 2ft Collection Date: 5/24/2019 11:10:00 AM Received Date: 5/29/2019 8:50:00 AM

Lab ID: 1905D34-011	Matrix: SOIL	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	: ТОМ		
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 RANG	E				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. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

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** Oual 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 6/3/2019 10:44:13 PM 45238 50 mg/Kg 1 Surr: DNOP 111 70-130 %Rec 6/3/2019 10:44:13 PM 45238 1

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. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

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[%] Recovery outside of range due to dilution or matrix S

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-13 Bottom 2 ft Breitburn State 14C 9 Collection Date: 5/24/2019 1:25:00 PM 1905D34-013 Matrix: SOIL Received Date: 5/29/2019 8:50:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: CJS 01 Μ

Chloride	130	60	mg/Kg	20	5/31/2019 3:50:35 PM	45301
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	ТОМ
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:

Project:

Lab ID:

Analyses

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

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[%] Recovery outside of range due to dilution or matrix S

Date Reported: 6/5/2019

Hall Environmental Analysis Laboratory, Inc.

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** Oual 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 5/31/2019 5:05:24 PM mg/Kg 1 45238 44 Surr: DNOP 104 %Rec 5/31/2019 5:05:24 PM 45238 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 5/30/2019 4:47:18 PM Gasoline Range Organics (GRO) ND 45242 4.9 mg/Kg 1 Surr: BFB 92.5 73.8-119 %Rec 5/30/2019 4:47:18 PM 45242 1 EBA METHOD 8021B. VOLATILES Analyst NSR

EPA WEITOD OUZID. VOLATILES					Analyst.	NOD
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. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

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** Oual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: CJS 5/31/2019 4:40:14 PM Chloride 120 60 mg/Kg 20 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 5/31/2019 5:27:36 PM 45238 48 mg/Kg 1 Surr: DNOP 75.7 %Rec 5/31/2019 5:27:36 PM 45238 70-130 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB

					/ maryou	NOD
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.
 D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation rangeJ Analyte detected below quantitation limits
- JAnalyte detected below quantitation limitsPSample pH Not In Range
- RL Reporting Limit

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WO#:	1905D34
	05-Jun-19

Client: Project:	•	Environme State 14C		olutions							
Sample ID: ME	3-45280	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 300.0: Anions					
Client ID: PB	S	Batch	ID: 452	280	F	unNo: 6	0279				
Prep Date: 5/	/30/2019	Analysis Da	ate: 5/ 3	30/2019	S	eqNo: 20	038238	Units: mg/K	g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: LC	S-45280	SampType: LCS TestCode: EPA Method 300.0: Anions									
Client ID: LC	SS	Batch	Batch ID: 45280 RunNo: 60279								
Prep Date: 5/	/30/2019	Analysis Da	ate: 5/	30/2019	S	eqNo: 2	038239	Units: mg/K	g		
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: ME	3-45301	SampT	ype: mb	olk	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID: PB	S	Batch	ID: 45	301	F	lunNo: 6	0337				
Prep Date: 5/	/31/2019	Analysis Da	ate: 5/ 3	31/2019	S	eqNo: 20	039845	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5					-			
Sample ID: LC	S-45301	SampT	ype: Ics	;	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID: LC	SS	Batch	ID: 45	301	F	lunNo: 6	0337				
Prep Date: 5/	/31/2019	Analysis Da	ate: 5/	31/2019	S	SeqNo: 20	039846	Units: mg/K	g		
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:

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- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1905D34
	05-Jun-19

•	Environmental S State 14C 9	olutions							
Sample ID: LCS-45238	SampType: L	CS	Tes	tCode: EPA	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 4	5238	F	RunNo: 602	253				
Prep Date: 5/29/2019	Analysis Date:	5/30/2019	S	SeqNo: 203	36196	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	51 10 4.7) 50.00 5.000	0	101 94.5	63.9 70	124 130			
Sample ID: MB-45238	SampType: N	IBLK	Tes	tCode: EPA	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 4	tch ID: 45238 RunNo: 60253							
Prep Date: 5/29/2019	Analysis Date:	5/30/2019	S	SeqNo: 203	36206	Units: mg/K	g		
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) Surr: DNOP	ND 50			97.9	70	100			
	9.8	10.00		97.9	70	130			
Sample ID: LCS-45237	SampType: LCS TestCode: EPA Method 80				8015M/D: Die	sel Range	e Organics		
Client ID: LCSS	Batch ID: 4	5237	F	RunNo: 602	254				
Prep Date: 5/29/2019	Analysis Date:	5/30/2019	S	SeqNo: 203	36242	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47 10		0	94.2	63.9	124			
Surr: DNOP	4.7	5.000		93.1	70	130			
Sample ID: MB-45237	SampType: N	IBLK	Tes	tCode: EPA	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 4	5237	F	RunNo: 602	254				
Prep Date: 5/29/2019	Analysis Date:	5/30/2019	S	SeqNo: 203	36243	Units: mg/K	g		
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) Surr: DNOP	ND 50			00.7	70	400			
	9.9	10.00		98.7	70	130			
Sample ID: 1905D34-011AMS	SampType: N	IS	Tes	tCode: EP/	A Method	8015M/D: Die	sel Range	e Organics	
Client ID: SP-11 Bottom 2ft	Batch ID: 4	5238	F	RunNo: 602	296				
Prep Date: 5/29/2019	Analysis Date:	5/31/2019	S	SeqNo: 203	39111	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53 10		15.74	74.0	57	142			
Surr: DNOP	4.4	4.990		87.5	70	130			

Qualifiers:

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- 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

Client: Safet	Safety & Environmental Solutions										
Project: Breith	ourn State 14C	9									
Sample ID: 1905D34-0114	Sample ID: 1905D34-011AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: SP-11 Bottom	2ft Batch	n ID: 45	238	RunNo: 60296							
Prep Date: 5/29/2019	Analysis D	ate: 5/	31/2019	S	SeqNo: 2039112		Units: mg/k	٢g			
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		

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1905D34
	05-Jun-19

Client:Safety & Environmental SolutionsProject: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 val	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Gasoline Range Organics (GRO)ND5.0Surr: BFB900100						
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 val	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Gasoline Range Organics (GRO) 23 5.0 25.0	00 0 90.7 80.1 123					
Surr: BFB 1000 100	00 101 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 val	ue 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 val	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Gasoline Range Organics (GRO) 25 5.0 24.						
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 val	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Gasoline Range Organics (GRO)ND5.0Surr: BFB920100	00 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	RunNo: 60276 SeqNo: 2037665 Units: mg/Kg					

Qualifiers:

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- S % Recovery outside of range due to dilution or matrix

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RL Reporting Limit

Client: Project:	•	Environmen State 14C		lutions							
Sample ID: LCS-45234 SampType: LCS TestCode: E						Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS Batch ID: 45234			R	unNo: 6	0276						
Prep Date: 5/29/2	p Date: 5/29/2019 Analysis Date: 5/30/2019		SeqNo: 2037665			Units: mg/K					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	s (GRO)	23	5.0	25.00	0	92.6	80.1	123			
Surr: BFB		1000		1000		102	73.8	119			

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#:	1905	5D34
	0 - -	10

Client: Project:	•	Environm State 14C		lutions							
Sample ID:	MB-45242	B-45242 SampType: MBLK TestCode: EPA Method 8021B: Volatiles									
Client ID:	PBS	Batcl	h ID: 452	242	F	RunNo: 6					
Prep Date:	5/29/2019	Analysis D	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-Brom	nofluorobenzene	0.97		1.000		96.8	80	120			
Sample ID:	LCS-45242	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batcl	h ID: 452	242	F	RunNo: 6	0276				
Prep Date:	5/29/2019	Analysis D	Date: 5/	30/2019	SeqNo: 2037691			Units: mg/k	٢g		
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-Brom	nofluorobenzene	1.1		1.000		107	80	120			
Sample ID:	1905D34-014AMS	SampT	Гуре: МS	5	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID:	SP-14 North Wall	Batcl	h ID: 452	242	F	RunNo: 6	0276				
Prep Date:	5/29/2019	Analysis E	Date: 5/	30/2019	SeqNo: 2037694			Units: mg/k	٢g		
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-Brom	nofluorobenzene	1.0		0.9911		104	80	120			
Sample ID:	1905D34-014AMSI	D Samp1	Гуре: МS	D	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID:	SP-14 North Wall	Batcl	h ID: 452	242	F	RunNo: 6	0276				
Prep Date:	5/29/2019	Analysis Date: 5/30/2019 SeqNo: 2037695 Units: mg/Kg									
Analyte		Result	PQL		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-Brom	nofluorobenzene	1.0		0.9862		105	80	120	0	0	

Qualifiers:

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1905D34	ł

05-Jun-19

•	Environm State 140		olutions							
Sample ID: MB-45234	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 45	234	F	RunNo: 6	0276				
Prep Date: 5/29/2019	Analysis [Date: 5/	30/2019	S	SeqNo: 20	037697	Units: mg/k	٢g		
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	Samp ⁻	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 45	234	F	RunNo: 60	0276				
Prep Date: 5/29/2019	Analysis [Date: 5/	30/2019	5	SeqNo: 20	037698	Units: mg/k	ζg		
Analyte	Result	PQL		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	Samp ⁻	Туре: МS	3	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: SP-1 Bottom 3ft	Batc	h ID: 45	234	F	RunNo: 6	0276				
Prep Date: 5/29/2019	Analysis [Date: 5/	30/2019	5	SeqNo: 20	037700	Units: mg/k	(g		
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: 1905D34-001AMS	D Samp	Туре: МS	SD	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: SP-1 Bottom 3ft	Batc	h ID: 45	234	F	RunNo: 6	0276				
Client ID: SP-1 Bottom 3ft Prep Date: 5/29/2019	Batc Analysis [RunNo: 61 SeqNo: 21		Units: mg/k	ζg		
			31/2019		SeqNo: 20		Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual
Prep Date: 5/29/2019 Analyte	Analysis [Date: 5/	31/2019	S	SeqNo: 20	037701	_	-	RPDLimit 20	Qual
Prep Date: 5/29/2019	Analysis [Result	Date: 5/ PQL	31/2019 SPK value	SPK Ref Val	SeqNo: 20 %REC	037701 LowLimit	HighLimit	%RPD		Qual
Prep Date: 5/29/2019 Analyte Benzene Toluene	Analysis [Result 1.1	Date: 5/ PQL 0.025	31/2019 SPK value 0.9990	SPK Ref Val	SeqNo: 20 %REC 113	037701 LowLimit 63.9	HighLimit 127	%RPD 4.11	20	Qual
Prep Date: 5/29/2019 Analyte Benzene	Analysis I Result 1.1 1.1	Date: 5/ PQL 0.025 0.050	31/2019 SPK value 0.9990 0.9990	SPK Ref Val 0 0	SeqNo: 20 %REC 113 114	037701 LowLimit 63.9 69.9	HighLimit 127 131	%RPD 4.11 3.89	20 20	Qual

Qualifiers:

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- P Sample pH Not In Range
- RL Reporting Limit

ANAL	ONMENT (SIS Ratory	AL	TEL: 505-3	nmental Analysis Labor 4901 Hawkin Albuquerque, NM 8 45-3975 FAX: 505-345- www.hallenvironmenta	ns NE 87109 San 84107	nple Log-In C	heck List
Client Name:	Safety Env	Solutions	Work Order N	lumber: 1905D34		RcptNo	1
Received By: Completed By: Reviewed By:	Jevon Car Leah Bac	•	5/29/2019 8:50 5/29/2019 9:01 5/29//6	:33 AM	Jua Campisi Leal Bace	A.	
	MM			1			
Chain of Cus	<u>tody</u>						
1. Is Chain of Cu	ustody comp	lete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample deliv	ered?		Courier			5
<u>Log In</u> 3. Was an attem	pt made to c	ool the samp	es?	Yes 🔽	No 🗌	NA 🗌	
4. Were all samp	les received	at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in p	proper contai	ner(s)?		Yes 🔽	No 🗌		
6. Sufficient sam	ple volume fo	or indicated te	st(s)?	Yes 🗹	No 🗌		
7. Are samples (e	except VOA	and ONG) pro	perly preserved?	Yes 🖌	No 🗌		
8. Was preservat	ive added to	bottles?		Yes	No 🗹	NA 🗌	
9. VOA vials have	e zero heads	pace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sam	nple containe	ers received b	roken?	Yes	No 🗹	# of preserved bottles checked	
11. Does paperwo (Note discrepa				Yes 🗸	No 🗌	for pH:	>12 unless noted)
12. Are matrices c	orrectly iden	tified on Chair	n of Custody?	Yes 🔽	No 🗌	Adjusted?	<u></u>
13. Is it clear what		- 20 CA - 20 C	?	Yes 🗹	No 🗌		
14. Were all holdin (If no, notify cu	1.77			Yes 🗹	No 🗌	Checked by:	JIC 5-29-19
Special Handli	na (if ann	licable)					
15. Was client not			vith this order?	Yes 🗌	No 🗌	NA 🗹	
Person I	Notified:			ate	and a second		
By Who	m:				Phone 🗌 Fax	In Person	
Regardi	ng:						
Client In	structions:		A and an international providence of the second				
16. Additional ren	narks:						
17. Cooler Inform	nation						
Cooler No	Temp °C	Condition	Seal Intact Seal N	lo Seal Date	Signed By	and the second se	
1	1.4	Good	Yes			factorization of the second se	

	HALLENVIDONMENTAL		ent;	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975	Analysis	¢0¹	S ԠC SW \$,8(, DG 120 120	/ DF (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	(OS 8/8 504 5 10 8 5 10 10 10 10 10 10 10 10 10 10 10 10 10	(GF)))))))))))))))))))	15D etho y 83 hr, 1 (AO (AO	НЕАL No. НЕАL No. НЕАL No. ВТЕХ / ВТЕХ / ВТЕХ / ВТЕХ / ВТЕХ / ВТЕХ / С0, F, B В260 (V В260 (V В260 (V С0, F, B В260 (V С0, F, B В260 (V С0, F, B С0, F, C С0, F, B С0, F, C С0, F, B С0, F, C С0, F, B С0, F, C С0, F С0,		- 00-	-003 / / / / / / / /	- 004	- 005	- 006 / / 10		- 0.03	009 / /			- 015 XX 210-	Date Time Remarks:	1/1 2 0800 All	ູ້ອ	06.80 S/29/19 08:00
MIMONICLE	I urn-Around Time:		Project Name: Rhut BUR	STATE: 146 #9	Project #	5KE-13-000	Project Manager:	Alen 1561	0	Sampler: Son Jun	ID Yes D	# of Coolers:	Cooler Temp(including CF): 1.5 c - C	Container Preservative 10 Type and # Type_ 10	-	Ang 1											Received by: Via:	SW1 51	-	1-1- S/2
_	Chain-of-Custody Record	et to chow with	S (CT w	MAZ C. CLINTON	10/24 Nuch 88240	75-397-05-10			Level 4 (Full Validation)	Az Compliance	□ Other		-	Matrix – Sample Name	5 5 SP. Ratter 3FT	S	OS SU-3 EETE WALL	S S SP-4 West well	5 5 5P-5 Retton 2Fr	S SP.6	SP7 Rottom 217	58-8	5 S.P.9 Bitter 2FT	58-10	5 SPU Rotten 2Pa	5 52-12	Relinquished by	Jun Jun	Relinquished by:	-CW/
	Chair	Client:	D.	Mailing Address:	120	Phone #: 5	email or Fax#:	QA/QC Package:	C Standard	Accreditation:	D NELAC	□ EDD (Type)		Date Time	0	(1330	241 (1/3	05/23/1015	1100	1215	05/24 (020	1035	5-07	0111	1300	Date: Time:	0010 3182/5	Date: Time:	328/19 0800

	HALL ENVIRONMENTAL	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109		Analysis	[⊅] 0	NS B's MR		7 DR 327(327(327((O) s/8/8 or { 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	-^С 10 ³ 10 10 10 10 10 10	15D0 94tic 9 Me 1,r, M 0A) 0A)	*08:1 •9 •9 •0 •0 •0 •0 •0 •0 •0	8226 8266 8267 8267 8267 808 808	×								Remarks:		S - 2 - 3 - 5 The serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Mariench	Turn-Around Time: Dush	Br	STUPPE 140 #9	Project #:	But-18-006	Project Manager:			Sampler:	On Ice: DYes DNo	olers: (Cooler Temp(including CF): (.5'C - 0.1CF: 1.4'C	Container Breconvetivo HEAL No	# Type	Ter013	1215- May 1	19/19 Der - 015)				2	Received by: Mia: Date Time	Ē	
	Chain-of-Custody Record	Selver rev	Clintan	NONDS NAN SALAD	Phone #: 575-397-0510	email or Fax#:	QA/QC Package:	Example and a second sec	Accreditation:		/pe)			Date Time Matrix Sample Name	5/24 1325 5 5P-13 Paren 257	1412 S SP-14 HARTINGT	Renter 21						Date: Time: Relipquished by:	Date: Time: Relinguished by:	If necessary, samples submitted to Hall Environmental may be subconfracted to other accredited laboratories.



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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: TT - 1 3' (H802405-01)

BTEX 8021B	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2018	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	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: TT - 1 5' (H802405-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2018	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 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	111 9	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: TT - 1 6' (H802405-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2018	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 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	110 9	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: TT - 1 7' (H802405-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2018	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 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	109 9	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: TT - 1 8' (H802405-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2018	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	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: TT - 1 16' (H802405-06)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2018	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	2						
Surrogate: 1-Chlorooctadecane	117 9	37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: TT - 2 2' (H802405-07)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2018	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 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	96.6	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: TT - 2 3' (H802405-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2018	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	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: TT - 2 4' (H802405-09)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	97.3	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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: TT - 2 16' (H802405-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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: TT - 3 3' (H802405-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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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: TT - 3 4' (H802405-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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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: TT - 3 5' (H802405-13)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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	% 37.6-14	7						

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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: TT - 3 6' (H802405-14)

BTEX 8021B	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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	69.8-14	2						
Chloride, SM4500Cl-B	mg	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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	2						
Surrogate: 1-Chlorooctadecane	93.0	% 37.6-14	7						

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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: TT - 3 16' (H802405-15)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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	% 37.6-14	7						

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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 - 5 SOUTH WALL (H802405-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 %	69.8-14	2						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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 %	6 41-142	,						
Surrogate: 1-Chlorooctadecane	96.4 9	37.6-14	7						

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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 - 6 SOUTH WALL (H802405-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 %	69.8-14	2						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	96.2	37.6-14	7						

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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 - 7 EAST WALL (H802405-18)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	69.8-14	2						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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	% 37.6-14	7						

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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)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	97.0	% 37.6-14	7						

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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 - 9 NORTH WALL (H802405-20)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2018	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 9	% 69.8-14	2						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	97.2	% 37.6-14	7						

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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 - 10 NORTH WALL (H802405-21)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	69.8-14	2						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	98.3	% 37.6-14	7						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2018	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 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	97.3	% 37.6-14	7						

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*=Accredited Analyte

Celeg D. Keine

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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PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whother is subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 24 of 27

(575) 393-2326 F	101 East Mariano, Hobbs, NM 00240 (575) 393-2326 FAX (575) 393-2476		
Company Name: Safety and E	Safety and Environmental Solutions	BILL TO ANALYSIS	YSIS REQUEST
		P.O. #	
3 East Clinton,	PO Box 1613	Company: Same	
Hob	State: NM Zip: 88240	Attn:	
le #: 5	Fax #: 575 393-4388		
	Project Owner:	city:	
a			
Project Location:		_	
Sampler Name:		80	
FOR LAB USE ONLY	D. MATRIX		
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME TMA BTGA Chloul	
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101 East Marland, Hobbs, NM 88240				2
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Address: 703 East Clinton, PO Box 1613	Cor	Company: Same		
Hobbs State: NM Zip:	88240 Attn:	R		
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- BAE-18-006	City:	Y:		
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Appendix D Site Photos

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2 E

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

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	1300 WEST MAIN S	LEA LA	ND, LLC 1A CITY, OK 73106 • F	PHONE (4	405) 236-42	257	ma	ita
N-HAZARDOU	S WASTE MANI	FEST NO	129833	1. PA	GEOF_	2. TRAII	LER NO.	150
3. COMPANY NAME		4. ADDRESS				PICK-UP DATE 5/22/2019	3	
Breitburn Britsen Operatin PHONE NO.	ng LP	CITY	Street Suite 1600 STATE			INRCC I.D. NO).	
FIIONE NO.		Houston	TX .	770	the same			
7. NAME OR DESCR	IPTION OF WASTE SHIPI			8. CON No.	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXA WASTE II
a. Non-Decidates	d, Non Hazardous W	'aste		1	CM			
b.	2, 792711 (22.0) (20.0)							
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	1300 WEST MAIN ST	LEA L	AND, LLC	PHONE (4	405) 236-42	257	121	
N-	HAZARDOUS WASTE MANIF	EST NO	129885	1. PA	GEOF_	2. TRAII	LER NO.	R-1
101 E	3. COMPANY NAME Breitburn Operating LP PHONE NO.	4. ADDRESS	y Street Suite 1600 STATE		ZIP 6.7	PICK-UP DATE 5/24/2019 FNRCC I.D. NC		
-	7. NAME OR DESCRIPTION OF WASTE SHIPPI	Houston BD:			TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXA WASTE ID
2	^a Non-Regulated, Non Hazardous Wa	ste		1	CM			
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	12. COMMENTS OR SPECIAL INSTRUCTIONS	:	M	0.11	~	13. WASTE	PROFILE	NO.
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	14. IN C. NAME	ASE OF EMI PHONE NO	ERGENCY OR SPI	LL, CO	NTACT	24-HOU	R EMERGI	ENCY NO.
	JOE ONTIVEROS	575-887-	4048					
	15.GENERATOR'S CERTIFICATION shipping name and are classified, packed, marked, a international and national government regulations, PRINTED/TYPED NAME	including applical	ble state regulations, and a	re the sam	e materials	previously app	roved by L	DATE
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N.	HAZARDOUS WASTE MANIFE	ST NO	129886	1. PAC	GEOF_	2. TRAIL	LER NO.	51
T	3. COMPANY NAME 4	ADDRESS		1	5. F	VICK-UP DATE		
	Breitburn Operating LP		STATE		ZIP 6. T	NRCC I.D. NO).	
	I HORE NO.	louston	SIAIE	770				
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			TO 420	1XO				
	14. IN CAS		ENCY OR SPII	LL, CO	NTACT	24-HOU	R EMERGI	ENCY NO.
	NAME	PHONE NO				4111001		
		Hereby declare that	the contents of this c	onsignme	nt are fully	y and accurately	described	above by prop
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	15. GENERATOR'S CERTIFICATION: I shipping name and are classified, packed, marked, and international and national government regulations, inc PRINTED/TYPED NAME	Hereby declare that	the contents of this c 11 respects in proper c ate regulations, and ar SIGNATURE	e the sam	e materials	previously app		EA LAND, LL
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	1	300 WEST MAIN STRI	LEA LA	ND, LLC A CITY, OK 73106 • P	HONE (4	05) 236-42	257	ma	ita
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	3. COMPANY NAME	1	ADDRESS			5. P	ICK-UP DATE		
J	Breitburn Operating LF	p. 1	111 Bagsby S	treet Suite 1800			NRCC I.D. NO	N	
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	7. NAME OR DESCRIPTION	V OF WASTE SHIPPED	:		No.	Туре	QUANTITY	Wt/Vol.	WASTE ID #
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R A N S P O	NAME: TEXAS I.D. NO.	USTOM WELDING PILL CY CONTACT: BILL (575)	V STEWART 631-4740	17. NAME: TEXAS I.D. NO. IN CASE OF EM EMERGENCY P	ERGEN	CY CONT/	ACT:		DATE
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LEA L 1300 WEST MAIN STREET • OKLAH	AND, LLC OMA CITY, OK 73106 • P	PHONE (4	05) 236-42	257 Rr	DRE	Faal
-HAZARDOUS WASTE MANIFEST NO	129907	1. PA	GEOF_	2. TRAIL	ER NO.	51
4 ADDRESS	y Street Suite 1800 STATE		ZIP 6. T	ICK-UP DATE		
7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXA WASTE II
a. Non-Regulated, Non Hazardous Waste		1	CM			
b.						
C						
er 24012 31,510 3	RIMOD	1				
12. COMMENTS OR SPECIAL INSTRUCTIONS:	1,100			13. WASTE	PROFILE N	VO.
STATE 14 C #9	Te 106,20	0D				
	ERGENCY OR SPII	LL, CO	NTACT	24-HOU	R EMERGI	ENCY NO.
NAME PHONE NO	4048			24-1100	K LMLKO	
PRINTED/TYPED NAME	SIGNATURE					DATE
16. TRANSPORTER (1)	17.	Т	RANSP	ORTER (2)		
NAME:	NAME:					
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DN-	HAZARDOUS WASTE MA	NIFEST NO	129923	1. PAC	GE_OF_	2. TRAIL	ER NO.	5
	3. COMPANY NAME Breitburn Operating LP	4. ADDRESS	y Street Suite 1600)	5. P	ICK-UP DATE		
	PHONE NO.	CITY	STATE			NRCC I.D. NC).	
		Houston	TΧ	770				11 TEVA
	7. NAME OR DESCRIPTION OF WASTE S	SHIPPED:		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXA WASTE ID
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0	341, AD 39	220 .						
	12. COMMENTS OR SPECIAL INSTRUCT	TIONS:	MINIA			13. WASTE I	PROFILE N	10.
		Te	(lloXld)					
			ERGENCY OR SPI	LL, CO	NTACT	24-HOUI	R EMERGE	NCY NO.
	NAMEONTIVEROS	PHONE NO	4048					
ŀ	CRATER ATORIC CEPTIFICAT	TON: I Hanshy doolor	a that the contents of this	onsignme	nt are fully	and accurately	described a	above by pro
	15.GENERATOR'S CERTIFICAT shipping name and are classified, packed, ma international and national government regula PRINTED/TYPED NAME							
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N-HAZARDOUS WASTE M		129947		GEOF_		ER NO.	5G
3. COMPANY NAME		y Street Suite 1600)	5. P	ICK-UP DATE	;	
Breitburn Operating LP				ZIP 6. T	NRCC I.D. NO).	
PHONE NO.	CITY	STATE	770		4		
7. NAME OR DESCRIPTION OF WAST				TAINERS	9. TOTAL OUANTITY	10. UNIT Wt/Vol.	11. TEXA WASTE II
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