

Breitburn Management
State 647-711

Closure Report

**Section 27, Township 18S, Range 28E
Eddy County, New Mexico
*2RP-4969***

June 25, 2019



Prepared for:

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

By:

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

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I. Company Contacts

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

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Breitbart Operating, AKA Maverick Resources to perform site remediation on the 647-711 Battery, concerning a seventy (70) bbl. release of produced water. This site is situated in Eddy County, Section 27, Township 18S, and Range 28E.

According to the C-141: Approximately seventy (70) bbls of produced water were released due to a 3" check valve failure that was compromised due to inner corrosion. As a result of the corrosion a small pin hole developed on the bottom side of the valve. The release was discovered early morning on September 08, 2018, and discovered when the lease operator made his site visit at 11:00 AM. The line was isolated and a vacuum truck was dispatched in order to recover all freestanding fluid. A backhoe was utilized in order to remove all saturated soil and this was replaced with fresh soil. 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 27. However, further research indicates depth to groundwater to be an average of 223' bgs. for this area. The nearest record of groundwater is located approximately 1 mile South and Southeast of the Breitbart 647-711 (Site Plan).

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.

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

V. Work Performed

On September 10, 2018 SESI, Breitbart, and JS Services personnel and equipment were on site to advance test trenches for purposes of soil delineation and screening. The impacted area was assessed for proper placement of test trenches, mapped, and aerial photographed. It was determined that 5 Test Trenches would be adequate for horizontal and vertical delineation for the area. The JS Services personnel hand excavated to the depth of one foot in the release area where several pipelines were located. Test trench one was installed to the max depth of thirteen feet with the backhoe. Soil samples were obtained and field tested for TPH and Chlorides. Test trench one was then backfilled, and test trench two was installed to the depth of thirteen feet, while soil samples were obtained and field tested. The location was pin flagged using white flags for purposes of the New Mexico one call. The excavation was mapped using the Juno 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:

Breitbart State 647-711 Soil Sample Results: Cardinal Laboratories 9-13-2018									
SAMPLE ID	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH DRO	EXT DRO
TT-1 2ft	<0.050	<0.050	<0.050	<0.150	<0.300	272	<10.0	175	15.7
TT-1 5ft	<0.050	<0.050	<0.050	<0.150	<0.300	672	<10.0	<10.0	<10.0
TT-1 7ft	<0.050	<0.050	<0.050	<0.150	<0.300	736	<10.0	14.4	<10.0
TT-1 13ft	<0.050	<0.050	<0.050	<0.150	<0.300	576	<10.0	10.2	<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	224	<10.0	<10.0	<10.0
TT-2 13ft	<0.050	<0.050	<0.050	<0.150	<0.300	112	<10.0	<10.0	<10.0

On March 12, 2019, pursuant to an email request from Robert Hamlet of the NMOCD; SESI personnel, together with personnel and equipment from Custom Welding of Hobbs, NM., returned to the Breitburn 711 site in order to conduct further soil delineation. Five (5) test trenches (TT) were advanced to depths whereby soil screening levels were at or under the recommended limits for Chlorides, and Petroleum Hydrocarbons based on depth to water for the area. At the request of NMOCD representative; Soil samples were grabbed at surface and one foot increments. All soil samples were properly packaged, preserved and transported to Hall Laboratories by chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), BTEX, and Chlorides (Method 300.0 ANIONS). The lab results are recapped in the following table:

Breitburn State 647-711 Soil Sample Results: Hall Laboratories 03-28-19								
SAMPLE ID	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH DRO
TT 1 @ Surface	ND	ND	ND	ND	ND	3000	ND	150
TT 1 @ 2 ft.	ND	ND	ND	ND	ND	560	ND	ND
TT 1 @ 3 ft.	ND	ND	ND	ND	ND	390	ND	ND
TT 2 @ Surface	ND	ND	ND	ND	ND	170	ND	570
TT 2 @ 1 ft.	ND	ND	ND	ND	ND	400	ND	ND
TT 2 @ 2 ft.	ND	ND	ND	ND	ND	380	ND	ND
TT 3 @ Surface	ND	ND	ND	.14	ND	9800	ND	8100
TT 3 @ 1 ft.	ND	ND	ND	ND	ND	2600	ND	660
TT 3 @ 2 ft.	ND	ND	ND	ND	ND	2900	ND	ND
TT 3 @ 3 ft.	ND	ND	ND	ND	ND	210	ND	ND
TT 3 @ 4 ft.	ND	ND	ND	ND	ND	88	ND	ND
TT 4 @ Surface	ND	ND	ND	ND	ND	1900	ND	240
TT 4 @ 1 ft.	ND	ND	ND	ND	ND	440	ND	ND
TT 5 @ Surface	ND	ND	ND	ND	ND	13000	ND	970
TT 5 @ 1 ft.	ND	ND	ND	ND	ND	420	ND	11

On March 25, 2019 a Delineation-Work Plan was submitted to the NMOCD for approval. The work plan was approved with conditions.

On May 31, 2019 SESI personnel together with personnel and equipment from Custom Welding of Hobbs, NM returned to the site of impact in order to commence with excavating and remediation activities in accordance with the work plan. Excavation of the East side of the heater treater was advanced to 1' bgs. Soil samples were grabbed at bottom sample positions, One and Two respectively. Sample positions Six and Seven were excavated to 3' bgs., in depth whereby bottom samples were grabbed and field tested. All representative soil samples were properly packaged, preserved and transported to Cardinal Laboratories for analyses of Chloride (CI Method 300.0 anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results are tabulated below for ease of reference (Appendix C).

Soil Sample Results: Cardinal Laboratories 6-11-19								
SAMPLE ID	Benzene	Toluene	Ethyl benzene	Total Xylenes	Total BTEX	TPH GRO	TPH DRO	Chlorides
SP-1 Bottom 1'	ND	ND	ND	ND	ND	ND	ND	448
SP-2 Bottom 1'	ND	ND	ND	ND	ND	ND	ND	432
SP-3 North Wall	ND	ND	ND	ND	ND	ND	ND	224
SP-4 East Wall	ND	ND	ND	ND	ND	ND	ND	208
SP-5 West Wall	ND	ND	ND	ND	ND	ND	ND	448
SP-6 Bottom 3'	ND	ND	ND	ND	ND	ND	ND	416
SP-7 Bottom 3'	ND	ND	ND	ND	ND	ND	ND	464
SP-8 East Wall	ND	ND	ND	ND	ND	ND	ND	128
SP-9 South Wall	ND	ND	ND	ND	ND	ND	ND	112
SP-10 North Wall	ND	ND	ND	ND	ND	ND	ND	114
SP-11 North Wall	ND	ND	ND	ND	ND	ND	ND	144
SP-12 South Wall	ND	ND	ND	ND	ND	ND	ND	144
SP-13 North Wall	ND	ND	ND	ND	ND	ND	ND	80
SP-14 Bottom 1'	ND	ND	ND	ND	ND	ND	ND	448
SP-15 Bottom 1'	ND	ND	ND	ND	ND	ND	ND	416
SP-17 South Wall	ND	ND	ND	ND	ND	ND	ND	96

On June 04, 2019 SESI personnel together with personnel and equipment from Custom Welding of Hobbs, NM returned to the site in order to continue excavation of the release area. Confirmation sampling and field testing is performed intermittently with excavation activities. Field testing for Chlorides and TPH concentrations were tested on the bottom and side walls of the excavation. Representative soil samples were grabbed at < 200' intervals, properly packaged, preserved, and transported via Chain of Custody to Cardinal Laboratories for analyses of Chloride (CI Method 300.0 anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results are tabulated below for ease of reference (Appendix C).

Soil Sample Results: Cardinal Laboratories 6-11-19								Chlorides
SAMPLE ID	Benzene	Toluene	Ethyl benzene	Total Xylenes	Total BTEX	TPH GRO	TPH DRO	
SP-16 North Wall	ND	ND	ND	ND	ND	ND	ND	96
SP-18 West Wall	ND	ND	ND	ND	ND	ND	ND	80
SP-19 Bottom 1'	ND	ND	ND	ND	ND	ND	ND	1020
SP-20 Bottom 1'	ND	ND	ND	ND	ND	ND	ND	1020
SP-21 East Wall	ND	ND	ND	ND	ND	ND	ND	80
SP-22 West Wall	ND	ND	ND	ND	ND	ND	ND	80
SP-23 South Wall	ND	ND	ND	ND	ND	ND	ND	48
SP-24 North Wall	ND	ND	ND	ND	ND	ND	ND	80
SP-25 Bottom 1'	ND	ND	ND	ND	ND	13.5	37.9	1120
SP-26 Bottom 1.5'	ND	ND	ND	ND	ND	ND	ND	176
SP-27 Bottom 1.5'	ND	ND	ND	ND	ND	ND	ND	192
SP-28 Bottom 1.5'	ND	ND	ND	ND	ND	ND	ND	160
SP-29 North Wall	ND	ND	ND	ND	ND	ND	ND	48
SP-30 South Wall	ND	ND	ND	ND	ND	ND	ND	32
SP-31 West Wall	ND	ND	ND	ND	ND	ND	ND	48

VI. Conclusion

Based on the analytical results for soil confirmation samples: SESI personnel together with personnel and equipment from Custom Welding of Hobbs returned to the location in order to complete backfilling activities. The pad and lease road areas were restored, and returned to grade.

All impacted soil has been disposed of at Lea Landfill, an NMOCD approved facility (Manifests).

The pasture areas have been backfilled, and contain a minimum of 4' bgs., of earthen material, contain Chloride concentrations <600 mg/kg., and have been reseeded (Seed Tags) in order to promote native vegetation in accordance with NMSLO guidelines. The pad area has been backfilled with like material and restored to grade.

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

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

VII. Figures & Appendices

Figure 1 – Site Map

Appendix A – Site Photographs



Appendix B – C-141

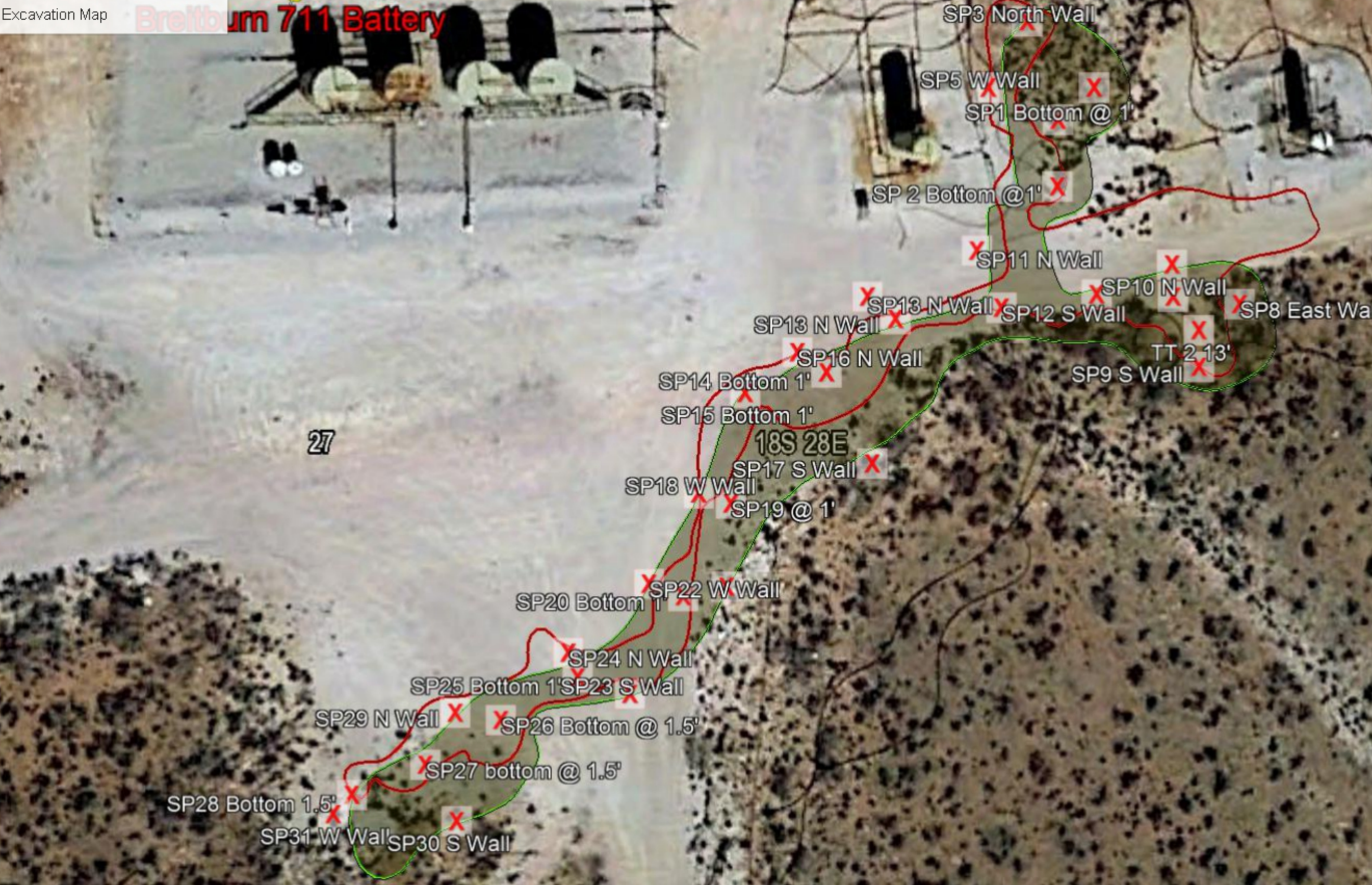
Appendix C – Analytical

Figure 1

Site Map

Legend

-  Breitburn 711 Battery
-  Excavation 1

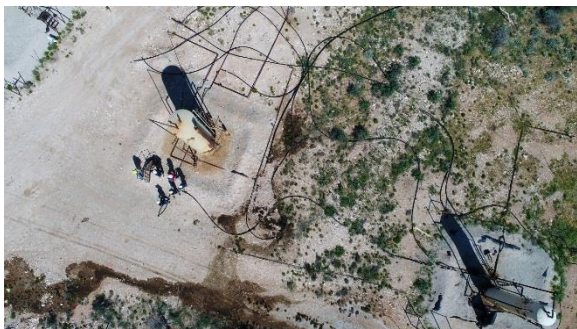
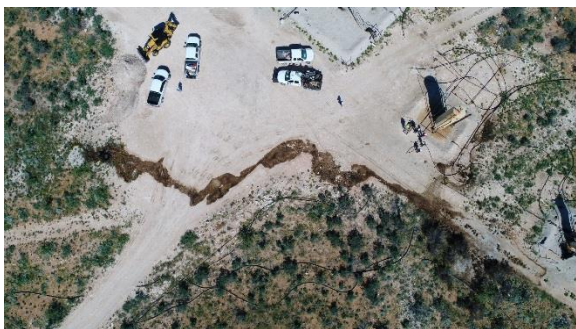


Appendix A

Site Photographs

Breitburn 647-711 Battery

Drone Photos 9-10-18



Breitburn 647-711

Remediation



Excavation of pad -lease road



Remediation of Pasture



Unmarked Lines



Lease road-pasture remediation

Breitburn 647-711

Completion



Pasture and Lease road restoration at completion



Pasture backfill area of flowlines



Pasture area of unmarked lines



Lease road-pasture at completion

Appendix B

C-141

Incident ID	2RP-4969
District RP	2
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?

300 (ft bgs)

Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	2RP-4969
District RP	2
Facility ID	
Application ID	

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.

Printed Name: Thomas HaigoodTitle: Permian EHS CoordinatorSignature: Date: 3/5/2019email: Thomas.haigood@maverickresources.comTelephone: 432-523-1807

Signature: _____

Date: _____

OCD Only

Received by: _____

Date: _____

Incident ID	2RP-4969
District RP	2
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Thomas HaigoodTitle: Permian EHS CoordinatorSignature: Date: 3/5/2019email: Thomas.haigood@maverickresources.comTelephone: 432-523-1807**OCD Only**

Received by: _____ Date: _____

☐ Approved☐ Approved with Attached Conditions of Approval☐ Denied☐ Deferral Approved

Signature: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	2RP-4969
District RP	2
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: 3/5/2019

email: Thomas.haigood@maverickresources.com

Telephone: 432-523-1807

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

Appendix C

Analytical Results

September 13, 2018

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRE-18-007

Enclosed are the results of analyses for samples received by the laboratory on 09/11/18 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/11/2018
Reported: 09/13/2018
Project Name: BRE-18-007
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 1 2' (H802557-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTX	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/12/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	175	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	15.7	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/11/2018
 Reported: 09/13/2018
 Project Name: BRE-18-007
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/10/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT - 1 5' (H802557-02)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEx	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	09/12/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/11/2018
Reported: 09/13/2018
Project Name: BRE-18-007
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 1 7' (H802557-03)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEX	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	09/12/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	14.4	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/11/2018
 Reported: 09/13/2018
 Project Name: BRE-18-007
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/10/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT - 1 13' (H802557-04)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEx	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	09/12/2018	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	10.2	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/11/2018
Reported: 09/13/2018
Project Name: BRE-18-007
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 2 3' (H802557-05)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEx	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/12/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/11/2018
 Reported: 09/13/2018
 Project Name: BRE-18-007
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/10/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT - 2 4' (H802557-06)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEx	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/12/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/11/2018
Reported: 09/13/2018
Project Name: BRE-18-007
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TT - 2 13' (H802557-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEx	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/12/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 97.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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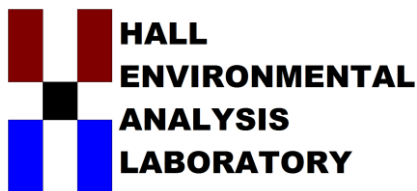
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Celey D. Keene, Lab Director/Quality Manager

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

[illegible]



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

April 05, 2019

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

RE: Breitburn Maverick 711 Battery

OrderNo.: 1903D60

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 16 sample(s) on 3/28/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-3 Surface**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 9:00:00 AM**Lab ID:** 1903D60-001**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	9800	600		mg/Kg	200	4/2/2019 4:25:06 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	8100	93		mg/Kg	10	4/1/2019 1:17:16 PM	43967
Motor Oil Range Organics (MRO)	5200	470		mg/Kg	10	4/1/2019 1:17:16 PM	43967
Surr: DNOP	0	70-130	S	%Rec	10	4/1/2019 1:17:16 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2019 11:42:47 AM	43937
Surr: BFB	120	73.8-119	S	%Rec	1	3/30/2019 11:42:47 AM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/30/2019 11:42:47 AM	43937
Toluene	ND	0.049		mg/Kg	1	3/30/2019 11:42:47 AM	43937
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2019 11:42:47 AM	43937
Xylenes, Total	0.14	0.098		mg/Kg	1	3/30/2019 11:42:47 AM	43937
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	3/30/2019 11:42:47 AM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-3 1Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 9:15:00 AM**Lab ID:** 1903D60-002**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	2600	150		mg/Kg	50	4/2/2019 4:37:30 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	660	9.6		mg/Kg	1	4/1/2019 2:53:13 PM	43967
Motor Oil Range Organics (MRO)	350	48		mg/Kg	1	4/1/2019 2:53:13 PM	43967
Surr: DNOP	112	70-130		%Rec	1	4/1/2019 2:53:13 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 12:53:24 PM	43937
Surr: BFB	101	73.8-119		%Rec	1	3/30/2019 12:53:24 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/30/2019 12:53:24 PM	43937
Toluene	ND	0.046		mg/Kg	1	3/30/2019 12:53:24 PM	43937
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 12:53:24 PM	43937
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2019 12:53:24 PM	43937
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	3/30/2019 12:53:24 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1903D60**

Date Reported: **4/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-3 2Ft

Project: Breitburn Maverick 711 Battery

Collection Date: 3/26/2019 9:30:00 AM

Lab ID: 1903D60-003

Matrix: SOIL

Received Date: 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	2900	150		mg/Kg	50	4/2/2019 4:49:55 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/1/2019 4:21:33 PM	43967
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/1/2019 4:21:33 PM	43967
Surr: DNOP	99.7	70-130		%Rec	1	4/1/2019 4:21:33 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2019 1:17:01 PM	43937
Surr: BFB	91.0	73.8-119		%Rec	1	3/30/2019 1:17:01 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/30/2019 1:17:01 PM	43937
Toluene	ND	0.049		mg/Kg	1	3/30/2019 1:17:01 PM	43937
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2019 1:17:01 PM	43937
Xylenes, Total	ND	0.098		mg/Kg	1	3/30/2019 1:17:01 PM	43937
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	3/30/2019 1:17:01 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-3 3Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 9:45:00 AM**Lab ID:** 1903D60-004**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	210	60		mg/Kg	20	3/30/2019 2:24:04 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/1/2019 5:50:08 PM	43967
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/1/2019 5:50:08 PM	43967
Surr: DNOP	91.3	70-130		%Rec	1	4/1/2019 5:50:08 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2019 1:40:32 PM	43937
Surr: BFB	89.1	73.8-119		%Rec	1	3/30/2019 1:40:32 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/30/2019 1:40:32 PM	43937
Toluene	ND	0.047		mg/Kg	1	3/30/2019 1:40:32 PM	43937
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2019 1:40:32 PM	43937
Xylenes, Total	ND	0.094		mg/Kg	1	3/30/2019 1:40:32 PM	43937
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	3/30/2019 1:40:32 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-3 4Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 10:00:00 AM**Lab ID:** 1903D60-005**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	88	60		mg/Kg	20	3/30/2019 2:36:29 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/1/2019 6:12:13 PM	43967
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/1/2019 6:12:13 PM	43967
Surr: DNOP	78.5	70-130		%Rec	1	4/1/2019 6:12:13 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2019 2:04:12 PM	43937
Surr: BFB	89.0	73.8-119		%Rec	1	3/30/2019 2:04:12 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/30/2019 2:04:12 PM	43937
Toluene	ND	0.048		mg/Kg	1	3/30/2019 2:04:12 PM	43937
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2019 2:04:12 PM	43937
Xylenes, Total	ND	0.096		mg/Kg	1	3/30/2019 2:04:12 PM	43937
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	1	3/30/2019 2:04:12 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-1 Surface**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 10:10:00 AM**Lab ID:** 1903D60-006**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	3000	150		mg/Kg	50	4/2/2019 5:02:20 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	150	9.9		mg/Kg	1	4/1/2019 7:18:41 PM	43967
Motor Oil Range Organics (MRO)	310	49		mg/Kg	1	4/1/2019 7:18:41 PM	43967
Surr: DNOP	105	70-130		%Rec	1	4/1/2019 7:18:41 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2019 2:27:50 PM	43937
Surr: BFB	87.2	73.8-119		%Rec	1	3/30/2019 2:27:50 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/30/2019 2:27:50 PM	43937
Toluene	ND	0.047		mg/Kg	1	3/30/2019 2:27:50 PM	43937
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2019 2:27:50 PM	43937
Xylenes, Total	ND	0.095		mg/Kg	1	3/30/2019 2:27:50 PM	43937
Surr: 4-Bromofluorobenzene	88.5	80-120		%Rec	1	3/30/2019 2:27:50 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1903D60**

Date Reported: **4/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-1 1Ft

Project: Breitburn Maverick 711 Battery

Collection Date: 3/26/2019 10:20:00 AM

Lab ID: 1903D60-007

Matrix: SOIL

Received Date: 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	590	60		mg/Kg	20	3/30/2019 3:01:18 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	36	9.5		mg/Kg	1	4/2/2019 7:12:53 PM	43967
Motor Oil Range Organics (MRO)	88	47		mg/Kg	1	4/2/2019 7:12:53 PM	43967
Surr: DNOP	101	70-130		%Rec	1	4/2/2019 7:12:53 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/30/2019 2:51:23 PM	43937
Surr: BFB	89.3	73.8-119		%Rec	1	3/30/2019 2:51:23 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/30/2019 2:51:23 PM	43937
Toluene	ND	0.050		mg/Kg	1	3/30/2019 2:51:23 PM	43937
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2019 2:51:23 PM	43937
Xylenes, Total	ND	0.10		mg/Kg	1	3/30/2019 2:51:23 PM	43937
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	3/30/2019 2:51:23 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-1 2Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 10:45:00 AM**Lab ID:** 1903D60-008**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	560	60		mg/Kg	20	3/30/2019 3:13:43 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/1/2019 9:30:55 PM	43967
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/1/2019 9:30:55 PM	43967
Surr: DNOP	70.2	70-130		%Rec	1	4/1/2019 9:30:55 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2019 3:14:52 PM	43937
Surr: BFB	89.2	73.8-119		%Rec	1	3/30/2019 3:14:52 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/30/2019 3:14:52 PM	43937
Toluene	ND	0.049		mg/Kg	1	3/30/2019 3:14:52 PM	43937
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2019 3:14:52 PM	43937
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2019 3:14:52 PM	43937
Surr: 4-Bromofluorobenzene	91.7	80-120		%Rec	1	3/30/2019 3:14:52 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-1 3Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 10:55:00 AM**Lab ID:** 1903D60-009**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	390	60		mg/Kg	20	3/30/2019 3:26:07 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/1/2019 9:52:43 PM	43967
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/1/2019 9:52:43 PM	43967
Surr: DNOP	46.5	70-130	S	%Rec	1	4/1/2019 9:52:43 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 5:12:21 PM	43937
Surr: BFB	88.7	73.8-119		%Rec	1	3/30/2019 5:12:21 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/30/2019 5:12:21 PM	43937
Toluene	ND	0.046		mg/Kg	1	3/30/2019 5:12:21 PM	43937
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 5:12:21 PM	43937
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2019 5:12:21 PM	43937
Surr: 4-Bromofluorobenzene	90.8	80-120		%Rec	1	3/30/2019 5:12:21 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-4 Surface**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 11:05:00 AM**Lab ID:** 1903D60-010**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	1900	60		mg/Kg	20	3/30/2019 3:38:31 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	240	97		mg/Kg	10	4/1/2019 10:14:40 PM	43967
Motor Oil Range Organics (MRO)	730	480		mg/Kg	10	4/1/2019 10:14:40 PM	43967
Surr: DNOP	0	70-130	S	%Rec	10	4/1/2019 10:14:40 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2019 5:35:39 PM	43937
Surr: BFB	86.4	73.8-119		%Rec	1	3/30/2019 5:35:39 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/30/2019 5:35:39 PM	43937
Toluene	ND	0.048		mg/Kg	1	3/30/2019 5:35:39 PM	43937
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2019 5:35:39 PM	43937
Xylenes, Total	ND	0.095		mg/Kg	1	3/30/2019 5:35:39 PM	43937
Surr: 4-Bromofluorobenzene	88.4	80-120		%Rec	1	3/30/2019 5:35:39 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-4 1Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 11:10:00 AM**Lab ID:** 1903D60-011**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	440	59		mg/Kg	20	3/30/2019 3:50:56 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/2/2019 8:41:39 PM	43967
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/2/2019 8:41:39 PM	43967
Surr: DNOP	86.3	70-130		%Rec	1	4/2/2019 8:41:39 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 5:58:51 PM	43937
Surr: BFB	90.2	73.8-119		%Rec	1	3/30/2019 5:58:51 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/30/2019 5:58:51 PM	43937
Toluene	ND	0.046		mg/Kg	1	3/30/2019 5:58:51 PM	43937
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 5:58:51 PM	43937
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2019 5:58:51 PM	43937
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	3/30/2019 5:58:51 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-5 Surface**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 11:20:00 AM**Lab ID:** 1903D60-012**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	13000	600		mg/Kg	200	4/2/2019 5:39:34 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	970	99		mg/Kg	10	4/1/2019 11:42:23 PM	43967
Motor Oil Range Organics (MRO)	940	490		mg/Kg	10	4/1/2019 11:42:23 PM	43967
Surr: DNOP	0	70-130	S	%Rec	10	4/1/2019 11:42:23 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2019 6:22:08 PM	43937
Surr: BFB	85.3	73.8-119		%Rec	1	3/30/2019 6:22:08 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/30/2019 6:22:08 PM	43937
Toluene	ND	0.047		mg/Kg	1	3/30/2019 6:22:08 PM	43937
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2019 6:22:08 PM	43937
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2019 6:22:08 PM	43937
Surr: 4-Bromofluorobenzene	88.7	80-120		%Rec	1	3/30/2019 6:22:08 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

Lab Order **1903D60**

Date Reported: **4/5/2019**

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-5 1Ft

Project: Breitburn Maverick 711 Battery

Collection Date: 3/26/2019 11:25:00 AM

Lab ID: 1903D60-013

Matrix: SOIL

Received Date: 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	420	60		mg/Kg	20	3/30/2019 4:40:35 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	11	9.9		mg/Kg	1	4/2/2019 12:47:58 AM	43967
Motor Oil Range Organics (MRO)	50	50		mg/Kg	1	4/2/2019 12:47:58 AM	43967
Surr: DNOP	90.3	70-130		%Rec	1	4/2/2019 12:47:58 AM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/30/2019 6:45:37 PM	43937
Surr: BFB	89.4	73.8-119		%Rec	1	3/30/2019 6:45:37 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/30/2019 6:45:37 PM	43937
Toluene	ND	0.050		mg/Kg	1	3/30/2019 6:45:37 PM	43937
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2019 6:45:37 PM	43937
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2019 6:45:37 PM	43937
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	1	3/30/2019 6:45:37 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

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Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-2 Surface**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 11:55:00 AM**Lab ID:** 1903D60-014**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	170	60		mg/Kg	20	3/30/2019 4:52:59 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	570	100		mg/Kg	10	4/2/2019 1:53:44 AM	43967
Motor Oil Range Organics (MRO)	950	500		mg/Kg	10	4/2/2019 1:53:44 AM	43967
Surr: DNOP	0	70-130	S	%Rec	10	4/2/2019 1:53:44 AM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2019 7:09:04 PM	43937
Surr: BFB	86.1	73.8-119		%Rec	1	3/30/2019 7:09:04 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/30/2019 7:09:04 PM	43937
Toluene	ND	0.048		mg/Kg	1	3/30/2019 7:09:04 PM	43937
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2019 7:09:04 PM	43937
Xylenes, Total	ND	0.096		mg/Kg	1	3/30/2019 7:09:04 PM	43937
Surr: 4-Bromofluorobenzene	89.2	80-120		%Rec	1	3/30/2019 7:09:04 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-2 1Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 12:00:00 PM**Lab ID:** 1903D60-015**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	400	59		mg/Kg	20	3/30/2019 5:05:24 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/4/2019 9:08:05 AM	43967
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/4/2019 9:08:05 AM	43967
Surr: DNOP	88.0	70-130		%Rec	1	4/4/2019 9:08:05 AM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2019 7:32:36 PM	43937
Surr: BFB	88.0	73.8-119		%Rec	1	3/30/2019 7:32:36 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/30/2019 7:32:36 PM	43937
Toluene	ND	0.047		mg/Kg	1	3/30/2019 7:32:36 PM	43937
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2019 7:32:36 PM	43937
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2019 7:32:36 PM	43937
Surr: 4-Bromofluorobenzene	91.1	80-120		%Rec	1	3/30/2019 7:32:36 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-2 2Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 12:15:00 PM**Lab ID:** 1903D60-016**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	380	60		mg/Kg	20	3/30/2019 5:17:48 PM	43982
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/2/2019 10:10:06 PM	43967
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/2/2019 10:10:06 PM	43967
Surr: DNOP	90.5	70-130		%Rec	1	4/2/2019 10:10:06 PM	43967
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 7:56:00 PM	43937
Surr: BFB	86.6	73.8-119		%Rec	1	3/30/2019 7:56:00 PM	43937
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/30/2019 7:56:00 PM	43937
Toluene	ND	0.046		mg/Kg	1	3/30/2019 7:56:00 PM	43937
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 7:56:00 PM	43937
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2019 7:56:00 PM	43937
Surr: 4-Bromofluorobenzene	88.4	80-120		%Rec	1	3/30/2019 7:56:00 PM	43937

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D60

05-Apr-19

Client: Safety & Environmental Solutions

Project: Breitburn Maverick 711 Battery

Sample ID: MB-43982	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 43982	RunNo: 58778
Prep Date: 3/29/2019	Analysis Date: 3/30/2019	SeqNo: 1975291 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-43982	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 43982	RunNo: 58778
Prep Date: 3/29/2019	Analysis Date: 3/30/2019	SeqNo: 1975292 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.0 90 110

Qualifiers:

H Holding times for preparation or analysis exceeded
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D60

05-Apr-19

Client: Safety & Environmental Solutions

Project: Breitburn Maverick 711 Battery

Sample ID: LCS-43967	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 43967		RunNo: 58785							
Prep Date: 3/29/2019	Analysis Date: 4/1/2019		SeqNo: 1976451		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	69.6	63.9	124			
Surr: DNOP	3.9		5.000		77.2	70	130			

Sample ID: MB-43967	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 43967		RunNo: 58785							
Prep Date: 3/29/2019	Analysis Date: 4/1/2019		SeqNo: 1976452		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			

Sample ID: LCS-44126	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 44126		RunNo: 58882							
Prep Date: 4/4/2019	Analysis Date: 4/4/2019		SeqNo: 1980513		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.3	70	130			

Sample ID: MB-44126	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 44126		RunNo: 58882							
Prep Date: 4/4/2019	Analysis Date: 4/4/2019		SeqNo: 1980514		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.4	70	130			

Qualifiers:

H Holding times for preparation or analysis exceeded
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D60

05-Apr-19

Client: Safety & Environmental Solutions

Project: Breitburn Maverick 711 Battery

Sample ID: LCS-43937	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 43937		RunNo: 58766							
Prep Date: 3/28/2019	Analysis Date: 3/30/2019		SeqNo: 1974438		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	80.1	123			
Surr: BFB	1000		1000		105	73.8	119			

Sample ID: MB-43937	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 43937		RunNo: 58766							
Prep Date: 3/28/2019	Analysis Date: 3/30/2019		SeqNo: 1974439		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.9	73.8	119			

Qualifiers:

H Holding times for preparation or analysis exceeded
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D60

05-Apr-19

Client: Safety & Environmental Solutions

Project: Breitburn Maverick 711 Battery

Sample ID: LCS-43937	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 43937	RunNo: 58766								
Prep Date: 3/28/2019	Analysis Date: 3/30/2019	SeqNo: 1974464	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	1.0	0.050	1.000	0	99.9	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	80	120			

Sample ID: MB-43937	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 43937	RunNo: 58766								
Prep Date: 3/28/2019	Analysis Date: 3/30/2019	SeqNo: 1974465	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			

Qualifiers:

H Holding times for preparation or analysis exceeded
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode

Sample Log-In Check List

Client Name: **Safety Env Solutions**

Work Order Number: **1903D60**

RcptNo: 1

Received By: **Yazmine Garduno** 3/28/2019 8:50:00 AM

Completed By: **Erin Melendrez** 3/28/2019 9:55:03 AM

Reviewed By: **ENM** 3/28/19

LB: **YG 3/28/19**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: **YG 3/28/19**

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

Chain-of-Custody Record

Client: Safety & Environmental Solutions

Mailing Address: 1703 E. Clinton

Phone #: 575-3970510

email or Fax#:

QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)

Accreditation ☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Day Rush

☐ Standard ☐ Rush

Project Name: Broadband

Week 7/11 Bitter

Project #: BRE-18-007

Project Manager: Alfred Rob

Sampler: Sam Jones

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.4°C

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
6/26	0900	S	T-3 Surface	1	pest	1903D60
	0915	S	T-3 1st	1		-001
	0930	S	T-3 2nd	1		-002
	0945	S	T-3 3rd	1		-003
	1000	S	T-3 4th	1		-004
	1010	S	T-1 Surface	1		-005
	1020	S	T-1 1st	1		-006
	1045	S	T-1 2nd	1		-007
	1055	S	T-1 3rd	1		-008
	1105	S	T-4 Surface	1		-009
	1110	S	T-4 1st	1		-010
						-011

Date: 03/27 Time: 0800

Date: 3/27/19 Time: 1900

Relinquished by: Sam Jones

Relinquished by: Sam Jones

Received by: Sam Jones Date: 3/27/19 Time: 0700

Received by: Yubey Date: 3/28/19 Time: 8:50

Remarks:



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTX + MTBE + TMB's (8021)	
BTX + MTBE + TPH (Gas only)	
TPH 8015B (GRO / DRO / MRO)	
TPH (Method 418.1)	
EDB (Method 504.1)	
PAH's (8310 or 8270 SIMS)	
RCRA 8 Metals	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles (Y or N)	

Chain-of-Custody Record		Turn-Around Time:
Client:	Safety & Environmental Solutions	5 Day Rush <input type="checkbox"/> Standard <input type="checkbox"/> Rush
Mailing Address:	703 E. Clearview #6666 NM 88240	Project Name: Bristlecone
Phone #:	575-397-0510	Project #: BRE-18-007
email or Fax#:		Project Manager: Allen, Bob
QA/QC Package:	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	Sampler: SPJ
Accreditation	<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> EDD (Type) _____		Sample Temperature: 24°C

Turn-Around Time:	5 Day Work
<input type="checkbox"/> Standard	<input type="checkbox"/> Rush
Project Name:	Brietbury
	Wavered 711 Betty
Project #:	BRE-18-007
Project Manager:	Allen, Bob
Sampler:	Sam Jey
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Temperature:	24.0

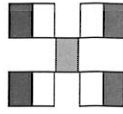
Project Manager:	Allen, Bob	
Sampler:	Son Jey	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Sample Temperature:	24.0	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
5/3/26	1120	S	11-5 Surface	1	rust	1903D60
}	1125	S	11-5 1Ft	1	}	-012
	1155	S	11-2 Surface	1		-013
}	1200	S	11-2 1Ft	1	}	-014
	1215	S	11-2 2Ft	1		-015
						-016

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date:	Time:
3/27/19	0800	[Signature]	[Signature]	3/27/19	0700
3/27/19	1700	[Signature]	[Signature]	3/28/19	8:30

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks:

if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report



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

June 11, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRE-18-007

Enclosed are the results of analyses for samples received by the laboratory on 06/05/19 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/05/2019
Reported: 06/11/2019
Project Name: BRE-18-007
Project Number: 647-711 BATTERY
Project Location: EDDY COUNTY

Sampling Date: 06/04/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 16 NORTH WALL (H901963-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/10/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/10/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/10/2019	ND	6.59	110	6.00	1.40	
Total BTEX	<0.300	0.300	06/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/10/2019	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 90.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/05/2019
Reported: 06/11/2019
Project Name: BRE-18-007
Project Number: 647-711 BATTERY
Project Location: EDDY COUNTY

Sampling Date: 06/04/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 18 WEST WALL (H901963-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/10/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/10/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/10/2019	ND	6.59	110	6.00	1.40	
Total BTEX	<0.300	0.300	06/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/10/2019	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 92.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/05/2019
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Project Name: BRE-18-007
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Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 19 BOTTOM 1' (H901963-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	06/10/2019	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 94.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/05/2019
Reported: 06/11/2019
Project Name: BRE-18-007
Project Number: 647-711 BATTERY
Project Location: EDDY COUNTY

Sampling Date: 06/04/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 20 BOTTOM 1' (H901963-04)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	06/10/2019	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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Received: 06/05/2019
 Reported: 06/11/2019
 Project Name: BRE-18-007
 Project Number: 647-711 BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/04/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 21 EAST WALL (H901963-05)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/10/2019	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.1 % 37.6-147

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Received: 06/05/2019
Reported: 06/11/2019
Project Name: BRE-18-007
Project Number: 647-711 BATTERY
Project Location: EDDY COUNTY

Sampling Date: 06/04/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 22 WEST WALL (H901963-06)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/10/2019	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 93.9 % 37.6-147

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 Received: 06/05/2019
 Reported: 06/11/2019
 Project Name: BRE-18-007
 Project Number: 647-711 BATTERY
 Project Location: EDDY COUNTY

 Sampling Date: 06/04/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 23 SOUTH WALL (H901963-07)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/10/2019	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 95.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.8 % 37.6-147

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Received: 06/05/2019
Reported: 06/11/2019
Project Name: BRE-18-007
Project Number: 647-711 BATTERY
Project Location: EDDY COUNTY

Sampling Date: 06/04/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 24 NORTH WALL (H901963-08)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/10/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 87.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147

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Received: 06/05/2019
Reported: 06/11/2019
Project Name: BRE-18-007
Project Number: 647-711 BATTERY
Project Location: EDDY COUNTY

Sampling Date: 06/04/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 25 BOTTOM 1' (H901963-09)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTEX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	06/10/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.5	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	37.9	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.2 % 37.6-147

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Received: 06/05/2019
Reported: 06/11/2019
Project Name: BRE-18-007
Project Number: 647-711 BATTERY
Project Location: EDDY COUNTY

Sampling Date: 06/04/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 26 BOTTOM 1.5' (H901963-10)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/10/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 88.9 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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Received:	06/05/2019	Sampling Date:	06/04/2019
Reported:	06/11/2019	Sampling Type:	Soil
Project Name:	BRE-18-007	Sampling Condition:	Cool & Intact
Project Number:	647-711 BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 27 BOTTOM 1.5' (H901963-11)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	06/10/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	239	119	200	6.48	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	228	114	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 84.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.7 % 37.6-147

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 Received: 06/05/2019
 Reported: 06/11/2019
 Project Name: BRE-18-007
 Project Number: 647-711 BATTERY
 Project Location: EDDY COUNTY

 Sampling Date: 06/04/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 28 BOTTOM 1.5' (H901963-12)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/10/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	192	96.0	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	189	94.7	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 91.6 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/05/2019
 Reported: 06/11/2019
 Project Name: BRE-18-007
 Project Number: 647-711 BATTERY
 Project Location: EDDY COUNTY

 Sampling Date: 06/04/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 29 NORTH WALL (H901963-13)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTEx	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/10/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	192	96.0	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	189	94.7	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 96.6 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/05/2019
Reported: 06/11/2019
Project Name: BRE-18-007
Project Number: 647-711 BATTERY
Project Location: EDDY COUNTY

Sampling Date: 06/04/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 30 SOUTH WALL (H901963-14)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/10/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	192	96.0	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	189	94.7	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 99.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/05/2019
Reported: 06/11/2019
Project Name: BRE-18-007
Project Number: 647-711 BATTERY
Project Location: EDDY COUNTY

Sampling Date: 06/04/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP - 31 WEST WALL (H901963-15)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.27	113	2.00	2.57	
Toluene*	<0.050	0.050	06/11/2019	ND	2.31	115	2.00	1.71	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	6.59	110	6.00	1.40	
Total BTX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/10/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2019	ND	192	96.0	200	3.93	
DRO >C10-C28*	<10.0	10.0	06/06/2019	ND	189	94.7	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	06/06/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM Zip: 88240

Phone #: 575 397-0510 Fax #: 575 393-4388

Project #: B015-18-007 Project Owner:

Project Name: 647-711, 130th Hwy

Project Location: Eddy County

Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H901963

SP-27 Bottom 1.5 ft

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH (B015 GND)

BTEX

Chlorides

06/04/1230

1255

1315

1330

06/04/1350

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

11

SP-28 Bottom 1.5 ft

1

12

SP-29 Bottom 1.5 ft

1

13

SP-30 Bottom 1.5 ft

1

14

SP-31 Bottom 1.5 ft

1

15

SP-32 Bottom 1.5 ft

1

16

SP-33 Bottom 1.5 ft

1

17

SP-34 Bottom 1.5 ft

1

18

SP-35 Bottom 1.5 ft

1

19

SP-36 Bottom 1.5 ft

1

20

SP-37 Bottom 1.5 ft

1

21

SP-38 Bottom 1.5 ft

1

22

SP-39 Bottom 1.5 ft

1

23

SP-40 Bottom 1.5 ft

1

24

SP-41 Bottom 1.5 ft

1

25

SP-42 Bottom 1.5 ft

1

26

SP-43 Bottom 1.5 ft

1

27

SP-44 Bottom 1.5 ft

1

28

SP-45 Bottom 1.5 ft

1

29

SP-46 Bottom 1.5 ft

1

30

SP-47 Bottom 1.5 ft

1

31

SP-48 Bottom 1.5 ft

1

32

SP-49 Bottom 1.5 ft

1

33

SP-50 Bottom 1.5 ft

1

34

SP-51 Bottom 1.5 ft

1

35

SP-52 Bottom 1.5 ft

1

36

SP-53 Bottom 1.5 ft

1

37

SP-54 Bottom 1.5 ft

1

38

SP-55 Bottom 1.5 ft

1

39

SP-56 Bottom 1.5 ft

1

40

SP-57 Bottom 1.5 ft

1

41

SP-58 Bottom 1.5 ft

1

42

SP-59 Bottom 1.5 ft

1

43

SP-60 Bottom 1.5 ft

1

44

SP-61 Bottom 1.5 ft

1

45

SP-62 Bottom 1.5 ft

1

46

SP-63 Bottom 1.5 ft

1

47

SP-64 Bottom 1.5 ft

1

48

SP-65 Bottom 1.5 ft

1

49

SP-66 Bottom 1.5 ft

1

50

SP-67 Bottom 1.5 ft

1

51

SP-68 Bottom 1.5 ft

1

52

SP-69 Bottom 1.5 ft

1

53

SP-70 Bottom 1.5 ft

1

54

SP-71 Bottom 1.5 ft

1

55

SP-72 Bottom 1.5 ft

1

56

SP-73 Bottom 1.5 ft

1

57

SP-74 Bottom 1.5 ft

1

58

SP-75 Bottom 1.5 ft

1

59

SP-76 Bottom 1.5 ft

1

60

SP-77 Bottom 1.5 ft

1

61

SP-78 Bottom 1.5 ft

1

62

SP-79 Bottom 1.5 ft

1

63

SP-80 Bottom 1.5 ft

1

64

SP-81 Bottom 1.5 ft

1

65

SP-82 Bottom 1.5 ft

1

66

SP-83 Bottom 1.5 ft

1

67

SP-84 Bottom 1.5 ft

1

68

SP-85 Bottom 1.5 ft

1

69

SP-86 Bottom 1.5 ft

1

70

SP-87 Bottom 1.5 ft

1

71

SP-88 Bottom 1.5 ft

1

72

SP-89 Bottom 1.5 ft

1

73

SP-90 Bottom 1.5 ft

1

74

SP-91 Bottom 1.5 ft

1

75

SP-92 Bottom 1.5 ft

1

76

SP-93 Bottom 1.5 ft

1

77

SP-94 Bottom 1.5 ft

1

78

SP-95 Bottom 1.5 ft

1

79

SP-96 Bottom 1.5 ft

1

80

SP-97 Bottom 1.5 ft

1

81

SP-98 Bottom 1.5 ft

1

82

SP-99 Bottom 1.5 ft

1

83

SP-100 Bottom 1.5 ft

1

84

SP-101 Bottom 1.5 ft

1

85

SP-102 Bottom 1.5 ft

1

86

SP-103 Bottom 1.5 ft

1

87

SP-104 Bottom 1.5 ft

1

88

SP-105 Bottom 1.5 ft

1

89

SP-106 Bottom 1.5 ft