

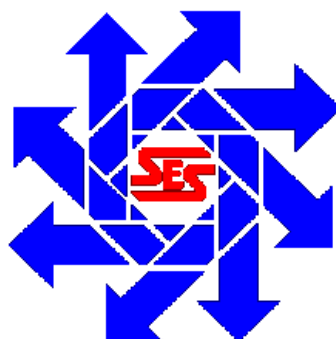
**Breitburn Operating, LP  
AKA Maverick Natural Resources LLC  
Jalmat Field Yates Unit 225**

**Closure Report**

**Section 10, 22S, 35E  
Lea County, New Mexico**

**1RP-5365**

**September 6, 2019**



**Prepared for:**

**Maverick Resources  
PO Box 678  
Andrews, TX**

**By:**

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

## TABLE OF CONTENTS

II. BACKGROUND.....	1
III. SURFACE AND GROUND WATER.....	1
VI. CONCLUSIONS.....	4
VII. FIGURES & APPENDICES .....	4
Figure 1 – Site Map .....	2
Appendix A – Site Photographs .....	<a href="#">3</a>
Appendix B – C-141 .....	<a href="#">4</a>
Appendix C – Analytical Data .....	<a href="#">5</a>

## I. Company Contacts

Representative	Company	Telephone	E-mail
Thomas Haigood	Maverick Resources	432-701-7802	Thomas.haigood@mavresources.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 Maverick Resources to assess a spill area on the Jalmat #225 Flowline location, concerning a seventeen (17) bbl. release comprised of crude oil and produced water. This site is situated in Lea County, Section 10, Township 22S and Range 35E.

According to the C-141: A bullet struck the poly flow line that originates from the Jalmat #225 Flowing to the production facility, there was an approximate 17 bbl release of produced water. A Trimble Juno 3B handheld was used to map the spill area. Whereby, the total area of impact was estimated to be 18,000 sq. ft.

## II. Surface and Ground Water

According to research of the website for the New Mexico Office of the State Engineer records; there is no record of groundwater in the immediate vicinity of the site location. However, the records indicated an average depth to water of 185' bgs. for Township 22S and Range 35E.

## IV. Characterization

The site has been remediated according to the NMOCD NMAC 19.15.29 published guidelines (July 24, 2018). The site ranking and soil screening levels as presented in the table below:

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**
<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 February 08, 2019 Maverick personnel took proactive measures to prevent further impact to the spill site. TMI services was contracted excavate approximately 46 yards of saturated soil and transport for disposal at Sundance Disposal facility.

On March 14, 2019 SESI personnel together with equipment and personnel from Custom Welding of Hobbs, NM 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 photographed. It was determined that 5 Test Trenches would be adequate for horizontal and vertical delineation of the impacted area. Soil samples were retrieved at surface and advanced in 1 ft. increments. The samples were properly packaged, preserved, and transported to Hall Laboratories for analyses of Chloride (CL Method 300.0 Anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX Method 8021B). The table below is a recap of the results from the hall Laboratory Analyses (Appendix C)

Hall Laboratory, Inc 3-14-19				
SAMPLE ID	Chloride	DRO	GRO	BTEX
TT-1 Surface	730	21000	9000	ND
TT1 @ 1ft	640	6600	710	ND
TT-1 @ 2ft	1000	29	ND	ND
TT-1 @ 3ft	560	ND	ND	ND
TT-1 @ 4ft	520	14	ND	ND
TT-2 Surface	150	25000	11000	ND
TT-2 @ 1ft	210	14	ND	ND
TT-2 @ 2ft	130	61	ND	ND
TT-3 Surface	960	19000	190	ND
TT-3 @ 1ft	410	ND	ND	ND
TT-4 Surface	300	36000	81	ND
TT-4 @ 1ft	ND	31	ND	ND
TT-5 Surface	210	32000	12	ND
TT-5 @ 1ft	860	110	ND	ND
TT-5 @ 2ft	300	150	ND	ND
Background	ND	ND	ND	ND

On June 25, 2019: based on the above soil analyses, and depth to groundwater: NMOCD representatives approved the following remediation protocol:

The impacted area was excavated to depths whereby soil screening levels for chloride constituency >600 ppm., and TPH screening levels of >1,000 ppm. All impacted soil transported to Sundance Landfill (an NMOCD approved facility). The area backfilled with 4 ft of clean topsoil and reseeded.

On July 29<sup>th</sup> thru July 31, 2019 SESI personnel, together with personnel and equipment excavated the impacted area until no visual signs or odor of petroleum could be ascertained. All impacted soil was stockpiled for removal, and transport of impacted soil to Sundance Disposal commences. Sidewall, and bottom soil samples are grabbed. A composite sample of the spoils pile is retrieved, packaged, preserved, and transported to Hall Laboratories for analyses of Chloride (CL Method 300.0 Anions), and Total Petroleum Hydrocarbons (TPH Method 8015). The table below is a recap of the results from the Hall Laboratory Analyses (Appendix C)

SAMPLE ID	Chloride	DRO	MRO	GRO
SP1 @ 4ft	500	74	61	ND
SP2 @ Bottom	110	170	140	ND
SP3 @ Bottom	110	26	46	ND
Spoils	100	890	680	ND
N Wall @ 1ft	ND	ND	ND	ND
SW Sidewall	ND	ND	ND	ND
SE Sidewall	ND	23	ND	ND

On August 13, 2019 SESI personnel together with personnel and equipment from Custom Welding return to the site in order to further excavate center of impacted area where visual staining from recent rain event caused hydrocarbon leaching to surface of excavation (photo documentation). Upon removal of soil containing staining and or odor, SESI representative contacted NMOCD representative Mr. Rose-Coss and advised him of excavation and dangers to livestock with an open excavation. He gave conditional permission to begin backfilling activity. Additional sidewall and bottom soil samples are grabbed from the center most area of the excavation now at 4ft bgs., packaged, preserved, and transported to Hall Laboratories for analyses of Chloride (CL Method 300.0 Anions), and Total Petroleum Hydrocarbons (TPH Method 8015). The table below is a recap of the results from the Hall Laboratory Analyses (Appendix C).

SAMPLE ID	Chloride	DRO	GRO
W. Sidewall #1	690	49	ND
Sidewall @ 2ft	540	9.6	ND
SP2 East Wall	920	1400	21
SP3 SW @ 4ft	380	24	ND
E Sidewall @ 2ft	380	580	ND
W Sidewall @ 2ft	74	280	ND
E SE Sidewall @ 4ft	700	80	ND

On August 16, 2019 and based on the results from Hall laboratories: SESI together with equipment and personnel from Custom Welding of Hobbs return to the site in order to further excavate the East and West Sidewalls respectively. An additional foot of sidewall is advanced from the East-southeast wall as well as the West Sidewall. Backfill with clean native topsoil is complete. Soil samples are grabbed, packaged, and preserved, for transport to Hall Laboratories via Chain of Custody and analyzed for Chloride (CL Method 300.0 Anions), and Total Petroleum Hydrocarbons (TPH Method 8015). The table below is a recap of the results from the Hall Laboratory Analyses (Appendix C).

SAMPLE ID	Chloride	DRO	MRO	GRO
SP2 E Wall (B)	ND	86	79	ND
W Sidewall #1 (B)	ND	NA	NA	NA
E SE Sidewall @ 5ft	ND	NA	NA	NA

## **VI. Conclusions**

The spill area was excavated and remediated to the NMOCD approved work plan protocol. All impacted soil was transported to Sundance Disposal of Eunice, NM (an NMOCD approved facility) for disposal. According to the disposal manifests a total of 1,540 yards of impacted soil were disposed of. Local soil was transported in for backfill material of the excavated area. The pasture area was restored with 4ft of clean native topsoil, terraced to dunal feature and reseeded in order to promote re-vegetation.

SESI, on behalf of Maverick Resources respectfully submits this closure report for your consideration and conclusion of the associated remediation permit.

## **VII. Figures & Appendices**

Figure 1 – Site Plan

Appendix A – Site Photographs

Appendix B – C-141

Appendix C – Analytical

# **Figure 1**


## **Site Map**





# Maverick Jalmat 225 Flowline


Remediation Site Map

Legend

 Center Excavation

 Final Samples

 Test Trenches

 Excavation





# **Appendix A**

## **Site Photographs**

**Breitburn  
Jalmat #225**



Excavation NE at Flowline (source)



West Sidewall



Entire excavation (center at 5' bgs)

**Breitburn  
Jalmat #225  
Completion**





## **Appendix B**

### **C-141**

Incident ID	
District RP	
Facility ID	
Application ID	


## Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate 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 HSE Specialist  
Signature:  Date: 09/06/2019  
email: Thomas.haigood@maverickresources.com Telephone: (432) 701-7802

**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 Data**



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-1 Surface

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 8:45:00 AM

**Lab ID:** 1903729-001

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	730	60		mg/Kg	20	3/18/2019 4:31:53 PM	43722
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	21000	490		mg/Kg	50	3/18/2019 12:29:50 PM	43711
Motor Oil Range Organics (MRO)	9000	2500		mg/Kg	50	3/18/2019 12:29:50 PM	43711
Surr: DNOP	0	70-130	S	%Rec	50	3/18/2019 12:29:50 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	1400	250		mg/Kg	50	3/18/2019 8:32:26 AM	43708
Surr: BFB	243	73.8-119	S	%Rec	50	3/18/2019 8:32:26 AM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	1.2	D	mg/Kg	50	3/18/2019 8:32:26 AM	43708
Toluene	ND	2.5	D	mg/Kg	50	3/18/2019 8:32:26 AM	43708
Ethylbenzene	ND	2.5	D	mg/Kg	50	3/18/2019 8:32:26 AM	43708
Xylenes, Total	62	5.0	D	mg/Kg	50	3/18/2019 8:32:26 AM	43708
Surr: 4-Bromofluorobenzene	112	80-120	D	%Rec	50	3/18/2019 8:32:26 AM	43708

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-1 1ft

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 8:50:00 AM

**Lab ID:** 1903729-002

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	640	61		mg/Kg	20	3/18/2019 5:09:06 PM	43722
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	6600	98		mg/Kg	10	3/18/2019 1:18:23 PM	43711
Motor Oil Range Organics (MRO)	2300	490		mg/Kg	10	3/18/2019 1:18:23 PM	43711
Surr: DNOP	0	70-130	S	%Rec	10	3/18/2019 1:18:23 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	710	100		mg/Kg	20	3/18/2019 8:39:59 PM	43708
Surr: BFB	268	73.8-119	S	%Rec	20	3/18/2019 8:39:59 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.50	D	mg/Kg	20	3/18/2019 8:39:59 PM	43708
Toluene	ND	1.0	D	mg/Kg	20	3/18/2019 8:39:59 PM	43708
Ethylbenzene	ND	1.0	D	mg/Kg	20	3/18/2019 8:39:59 PM	43708
Xylenes, Total	30	2.0	D	mg/Kg	20	3/18/2019 8:39:59 PM	43708
Surr: 4-Bromofluorobenzene	106	80-120	D	%Rec	20	3/18/2019 8:39:59 PM	43708

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-1 2ft

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 9:10:00 AM

**Lab ID:** 1903729-003

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1000	60		mg/Kg	20	3/18/2019 9:17:16 PM	43728
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	29	9.6		mg/Kg	1	3/19/2019 1:15:54 PM	43711
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/19/2019 1:15:54 PM	43711
Surr: DNOP	81.8	70-130		%Rec	1	3/19/2019 1:15:54 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/18/2019 2:48:31 PM	43708
Surr: BFB	94.9	73.8-119		%Rec	1	3/18/2019 2:48:31 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/18/2019 2:48:31 PM	43708
Toluene	ND	0.050		mg/Kg	1	3/18/2019 2:48:31 PM	43708
Ethylbenzene	ND	0.050		mg/Kg	1	3/18/2019 2:48:31 PM	43708
Xylenes, Total	ND	0.10		mg/Kg	1	3/18/2019 2:48:31 PM	43708
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	3/18/2019 2:48:31 PM	43708

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-1 3ft

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 9:20:00 AM

**Lab ID:** 1903729-004

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	560	59		mg/Kg	20	3/18/2019 10:19:20 PM	43728
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/21/2019 3:28:22 PM	43711
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/21/2019 3:28:22 PM	43711
Surr: DNOP	79.2	70-130		%Rec	1	3/21/2019 3:28:22 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2019 4:45:55 PM	43708
Surr: BFB	95.0	73.8-119		%Rec	1	3/18/2019 4:45:55 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/18/2019 4:45:55 PM	43708
Toluene	ND	0.048		mg/Kg	1	3/18/2019 4:45:55 PM	43708
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2019 4:45:55 PM	43708
Xylenes, Total	ND	0.096		mg/Kg	1	3/18/2019 4:45:55 PM	43708
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	3/18/2019 4:45:55 PM	43708

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-1 4ft

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 9:45:00 AM

**Lab ID:** 1903729-005

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	520	60		mg/Kg	20	3/18/2019 10:31:44 PM	43728
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	24	9.9		mg/Kg	1	3/25/2019 12:05:48 PM	43711
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/25/2019 12:05:48 PM	43711
Surr: DNOP	105	70-130		%Rec	1	3/25/2019 12:05:48 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/18/2019 5:09:08 PM	43708
Surr: BFB	92.8	73.8-119		%Rec	1	3/18/2019 5:09:08 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	3/18/2019 5:09:08 PM	43708
Toluene	ND	0.046		mg/Kg	1	3/18/2019 5:09:08 PM	43708
Ethylbenzene	ND	0.046		mg/Kg	1	3/18/2019 5:09:08 PM	43708
Xylenes, Total	ND	0.092		mg/Kg	1	3/18/2019 5:09:08 PM	43708
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	3/18/2019 5:09:08 PM	43708

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-2 Surface

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 10:00:00 AM

**Lab ID:** 1903729-006

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1500	60		mg/Kg	20	3/18/2019 10:44:09 PM	43728
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	25000	500		mg/Kg	50	3/18/2019 2:07:06 PM	43711
Motor Oil Range Organics (MRO)	11000	2500		mg/Kg	50	3/18/2019 2:07:06 PM	43711
Surr: DNOP	0	70-130	S	%Rec	50	3/18/2019 2:07:06 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	160	25		mg/Kg	5	3/18/2019 10:13:28 PM	43708
Surr: BFB	332	73.8-119	S	%Rec	5	3/18/2019 10:13:28 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.12		mg/Kg	5	3/18/2019 10:13:28 PM	43708
Toluene	0.26	0.25		mg/Kg	5	3/18/2019 10:13:28 PM	43708
Ethylbenzene	0.82	0.25		mg/Kg	5	3/18/2019 10:13:28 PM	43708
Xylenes, Total	6.3	0.49		mg/Kg	5	3/18/2019 10:13:28 PM	43708
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	5	3/18/2019 10:13:28 PM	43708

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-2 1ft**Project:** Jalmat 225**Collection Date:** 3/14/2019 10:15:00 AM**Lab ID:** 1903729-007**Matrix:** SOIL**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	210	61		mg/Kg	20	3/18/2019 10:56:34 PM	43728
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	14	10		mg/Kg	1	3/19/2019 2:28:12 PM	43711
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/19/2019 2:28:12 PM	43711
Surr: DNOP	81.1	70-130		%Rec	1	3/19/2019 2:28:12 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/18/2019 5:32:21 PM	43708
Surr: BFB	96.7	73.8-119		%Rec	1	3/18/2019 5:32:21 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	3/18/2019 5:32:21 PM	43708
Toluene	ND	0.046		mg/Kg	1	3/18/2019 5:32:21 PM	43708
Ethylbenzene	ND	0.046		mg/Kg	1	3/18/2019 5:32:21 PM	43708
Xylenes, Total	ND	0.093		mg/Kg	1	3/18/2019 5:32:21 PM	43708
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/18/2019 5:32:21 PM	43708

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-2 2ft

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 10:30:00 AM

**Lab ID:** 1903729-008

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	130	60		mg/Kg	20	3/18/2019 11:08:59 PM	43728
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	59	9.9		mg/Kg	1	3/25/2019 12:27:55 PM	43711
Motor Oil Range Organics (MRO)	75	50		mg/Kg	1	3/25/2019 12:27:55 PM	43711
Surr: DNOP	68.3	70-130	S	%Rec	1	3/25/2019 12:27:55 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2019 5:55:40 PM	43708
Surr: BFB	93.0	73.8-119		%Rec	1	3/18/2019 5:55:40 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/18/2019 5:55:40 PM	43708
Toluene	ND	0.048		mg/Kg	1	3/18/2019 5:55:40 PM	43708
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2019 5:55:40 PM	43708
Xylenes, Total	ND	0.095		mg/Kg	1	3/18/2019 5:55:40 PM	43708
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	3/18/2019 5:55:40 PM	43708

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-3 Surface

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 10:40:00 AM

**Lab ID:** 1903729-009

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	960	60		mg/Kg	20	3/18/2019 11:21:24 PM	43728
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	19000	490		mg/Kg	50	3/18/2019 2:55:40 PM	43711
Motor Oil Range Organics (MRO)	7900	2500		mg/Kg	50	3/18/2019 2:55:40 PM	43711
Surr: DNOP	0	70-130	S	%Rec	50	3/18/2019 2:55:40 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	190	24		mg/Kg	5	3/18/2019 11:00:38 PM	43708
Surr: BFB	434	73.8-119	S	%Rec	5	3/18/2019 11:00:38 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.12		mg/Kg	5	3/18/2019 11:00:38 PM	43708
Toluene	0.30	0.24		mg/Kg	5	3/18/2019 11:00:38 PM	43708
Ethylbenzene	3.8	0.24		mg/Kg	5	3/18/2019 11:00:38 PM	43708
Xylenes, Total	6.1	0.48		mg/Kg	5	3/18/2019 11:00:38 PM	43708
Surr: 4-Bromofluorobenzene	137	80-120	S	%Rec	5	3/18/2019 11:00:38 PM	43708

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-3 1ft

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 11:00:00 AM

**Lab ID:** 1903729-010

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	410	60		mg/Kg	20	3/18/2019 11:33:49 PM	43728
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/19/2019 3:16:55 PM	43711
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/19/2019 3:16:55 PM	43711
Surr: DNOP	77.9	70-130		%Rec	1	3/19/2019 3:16:55 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/18/2019 6:19:07 PM	43708
Surr: BFB	97.2	73.8-119		%Rec	1	3/18/2019 6:19:07 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/18/2019 6:19:07 PM	43708
Toluene	ND	0.047		mg/Kg	1	3/18/2019 6:19:07 PM	43708
Ethylbenzene	ND	0.047		mg/Kg	1	3/18/2019 6:19:07 PM	43708
Xylenes, Total	ND	0.094		mg/Kg	1	3/18/2019 6:19:07 PM	43708
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/18/2019 6:19:07 PM	43708

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-4 Surface

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 11:15:00 AM

**Lab ID:** 1903729-011

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	300	60		mg/Kg	20	3/19/2019 12:03:58 PM	43755
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	36000	500		mg/Kg	50	3/18/2019 3:44:11 PM	43711
Motor Oil Range Organics (MRO)	15000	2500		mg/Kg	50	3/18/2019 3:44:11 PM	43711
Surr: DNOP	0	70-130	S	%Rec	50	3/18/2019 3:44:11 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	81	9.7		mg/Kg	2	3/18/2019 11:47:33 PM	43708
Surr: BFB	390	73.8-119	S	%Rec	2	3/18/2019 11:47:33 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	2	3/18/2019 11:47:33 PM	43708
Toluene	0.097	0.097		mg/Kg	2	3/18/2019 11:47:33 PM	43708
Ethylbenzene	0.98	0.097		mg/Kg	2	3/18/2019 11:47:33 PM	43708
Xylenes, Total	3.3	0.19		mg/Kg	2	3/18/2019 11:47:33 PM	43708
Surr: 4-Bromofluorobenzene	135	80-120	S	%Rec	2	3/18/2019 11:47:33 PM	43708

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-4 1ft

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 11:30:00 AM

**Lab ID:** 1903729-012

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	3/19/2019 12:16:23 PM	43755
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	32	9.5		mg/Kg	1	3/25/2019 12:49:59 PM	43711
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/25/2019 12:49:59 PM	43711
Surr: DNOP	96.7	70-130		%Rec	1	3/25/2019 12:49:59 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2019 6:42:36 PM	43708
Surr: BFB	96.7	73.8-119		%Rec	1	3/18/2019 6:42:36 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/18/2019 6:42:36 PM	43708
Toluene	ND	0.048		mg/Kg	1	3/18/2019 6:42:36 PM	43708
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2019 6:42:36 PM	43708
Xylenes, Total	ND	0.096		mg/Kg	1	3/18/2019 6:42:36 PM	43708
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/18/2019 6:42:36 PM	43708

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-5 Surface

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 11:45:00 AM

**Lab ID:** 1903729-013

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	210	60		mg/Kg	20	3/19/2019 12:28:48 PM	43755
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	32000	500		mg/Kg	50	3/18/2019 4:32:47 PM	43711
Motor Oil Range Organics (MRO)	15000	2500		mg/Kg	50	3/18/2019 4:32:47 PM	43711
Surr: DNOP	0	70-130	S	%Rec	50	3/18/2019 4:32:47 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	12	9.5		mg/Kg	2	3/19/2019 12:34:43 AM	43708
Surr: BFB	124	73.8-119	S	%Rec	2	3/19/2019 12:34:43 AM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.048	D	mg/Kg	2	3/19/2019 12:34:43 AM	43708
Toluene	ND	0.095	D	mg/Kg	2	3/19/2019 12:34:43 AM	43708
Ethylbenzene	ND	0.095	D	mg/Kg	2	3/19/2019 12:34:43 AM	43708
Xylenes, Total	0.20	0.19	D	mg/Kg	2	3/19/2019 12:34:43 AM	43708
Surr: 4-Bromofluorobenzene	99.3	80-120	D	%Rec	2	3/19/2019 12:34:43 AM	43708

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-5 1ft

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 12:05:00 PM

**Lab ID:** 1903729-014

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	860	60		mg/Kg	20	3/19/2019 12:41:12 PM	43755
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	110	9.7		mg/Kg	1	3/19/2019 4:06:24 PM	43711
Motor Oil Range Organics (MRO)	58	49		mg/Kg	1	3/19/2019 4:06:24 PM	43711
Surr: DNOP	74.8	70-130		%Rec	1	3/19/2019 4:06:24 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/18/2019 7:06:05 PM	43708
Surr: BFB	95.2	73.8-119		%Rec	1	3/18/2019 7:06:05 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/18/2019 7:06:05 PM	43708
Toluene	ND	0.049		mg/Kg	1	3/18/2019 7:06:05 PM	43708
Ethylbenzene	ND	0.049		mg/Kg	1	3/18/2019 7:06:05 PM	43708
Xylenes, Total	ND	0.099		mg/Kg	1	3/18/2019 7:06:05 PM	43708
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/18/2019 7:06:05 PM	43708

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-5 2ft**Project:** Jalmat 225**Collection Date:** 3/14/2019 12:30:00 PM**Lab ID:** 1903729-015**Matrix:** SOIL**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	300	60		mg/Kg	20	3/19/2019 12:53:37 PM	43755
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	150	9.6		mg/Kg	1	3/19/2019 4:30:37 PM	43711
Motor Oil Range Organics (MRO)	78	48		mg/Kg	1	3/19/2019 4:30:37 PM	43711
Surr: DNOP	78.6	70-130		%Rec	1	3/19/2019 4:30:37 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/18/2019 7:29:33 PM	43708
Surr: BFB	96.7	73.8-119		%Rec	1	3/18/2019 7:29:33 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/18/2019 7:29:33 PM	43708
Toluene	ND	0.048		mg/Kg	1	3/18/2019 7:29:33 PM	43708
Ethylbenzene	ND	0.048		mg/Kg	1	3/18/2019 7:29:33 PM	43708
Xylenes, Total	ND	0.096		mg/Kg	1	3/18/2019 7:29:33 PM	43708
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/18/2019 7:29:33 PM	43708

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903729**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** Background

**Project:** Jalmat 225

**Collection Date:** 3/14/2019 1:00:00 PM

**Lab ID:** 1903729-016

**Matrix:** SOIL

**Received Date:** 3/15/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	3/19/2019 1:30:51 PM	43755
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/19/2019 4:54:54 PM	43711
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/19/2019 4:54:54 PM	43711
Surr: DNOP	81.0	70-130		%Rec	1	3/19/2019 4:54:54 PM	43711
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/18/2019 7:53:01 PM	43708
Surr: BFB	95.1	73.8-119		%Rec	1	3/18/2019 7:53:01 PM	43708
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/18/2019 7:53:01 PM	43708
Toluene	ND	0.049		mg/Kg	1	3/18/2019 7:53:01 PM	43708
Ethylbenzene	ND	0.049		mg/Kg	1	3/18/2019 7:53:01 PM	43708
Xylenes, Total	ND	0.098		mg/Kg	1	3/18/2019 7:53:01 PM	43708
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/18/2019 7:53:01 PM	43708

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

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



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

August 20, 2019

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

RE: Mav 19 003

OrderNo.: 1908772

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/14/2019 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](http://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 **1908772**

Date Reported: **8/20/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** W. SW #1

**Project:** Mav 19 003

**Collection Date:** 8/13/2019 10:10:00 AM

**Lab ID:** 1908772-001

**Matrix:** SOIL

**Received Date:** 8/14/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	690	60		mg/Kg	20	8/16/2019 2:06:29 PM	46848
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	49	9.6		mg/Kg	1	8/17/2019 1:03:23 PM	46851
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2019 1:03:23 PM	46851
Surr: DNOP	106	70-130		%Rec	1	8/17/2019 1:03:23 PM	46851
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/16/2019 4:02:52 PM	46816
Surr: BFB	96.6	77.4-118		%Rec	1	8/16/2019 4:02:52 PM	46816

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908772**

Date Reported: **8/20/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** NE SW @ 2'

**Project:** Mav 19 003

**Collection Date:** 8/13/2019 11:16:00 AM

**Lab ID:** 1908772-002

**Matrix:** SOIL

**Received Date:** 8/14/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	540	60		mg/Kg	20	8/16/2019 2:43:41 PM	46848
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	9.6	9.5		mg/Kg	1	8/17/2019 2:10:03 PM	46851
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2019 2:10:03 PM	46851
Surr: DNOP	47.4	70-130	S	%Rec	1	8/17/2019 2:10:03 PM	46851
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/16/2019 4:26:25 PM	46816
Surr: BFB	99.9	77.4-118		%Rec	1	8/16/2019 4:26:25 PM	46816

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908772**

Date Reported: **8/20/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP2 E. Wall

**Project:** Mav 19 003

**Collection Date:** 8/13/2019 10:10:00 AM

**Lab ID:** 1908772-003

**Matrix:** SOIL

**Received Date:** 8/14/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	920	60		mg/Kg	20	8/16/2019 3:20:56 PM	46848
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	1400	95		mg/Kg	10	8/19/2019 12:14:00 AM	46851
Motor Oil Range Organics (MRO)	670	480		mg/Kg	10	8/19/2019 12:14:00 AM	46851
Surr: DNOP	0	70-130	S	%Rec	10	8/19/2019 12:14:00 AM	46851
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	21	12		mg/Kg	5	8/16/2019 3:39:19 PM	46816
Surr: BFB	150	77.4-118	S	%Rec	5	8/16/2019 3:39:19 PM	46816

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908772**

Date Reported: **8/20/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP3 SW @ 4ft

**Project:** Mav 19 003

**Collection Date:** 8/13/2019 10:15:00 AM

**Lab ID:** 1908772-004

**Matrix:** SOIL

**Received Date:** 8/14/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	380	60		mg/Kg	20	8/16/2019 3:33:21 PM	46848
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	24	9.7		mg/Kg	1	8/17/2019 3:17:00 PM	46851
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/17/2019 3:17:00 PM	46851
Surr: DNOP	59.2	70-130	S	%Rec	1	8/17/2019 3:17:00 PM	46851
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/16/2019 4:50:01 PM	46816
Surr: BFB	104	77.4-118		%Rec	1	8/16/2019 4:50:01 PM	46816

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908772**

Date Reported: **8/20/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** E SW @ 2ft

**Project:** Mav 19 003

**Collection Date:** 8/13/2019 11:15:00 AM

**Lab ID:** 1908772-005

**Matrix:** SOIL

**Received Date:** 8/14/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	380	60		mg/Kg	20	8/16/2019 3:45:46 PM	46848
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	580	8.5		mg/Kg	1	8/19/2019 8:48:08 AM	46851
Motor Oil Range Organics (MRO)	390	42		mg/Kg	1	8/19/2019 8:48:08 AM	46851
Surr: DNOP	96.5	70-130		%Rec	1	8/19/2019 8:48:08 AM	46851
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/16/2019 5:13:31 PM	46816
Surr: BFB	88.9	77.4-118		%Rec	1	8/16/2019 5:13:31 PM	46816

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908772**

Date Reported: **8/20/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** W SW @ 2ft

**Project:** Mav 19 003

**Collection Date:** 8/13/2019 11:05:00 AM

**Lab ID:** 1908772-006

**Matrix:** SOIL

**Received Date:** 8/14/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	74	60		mg/Kg	20	8/16/2019 3:58:10 PM	46848
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	280	9.4		mg/Kg	1	8/19/2019 9:42:49 AM	46851
Motor Oil Range Organics (MRO)	210	47		mg/Kg	1	8/19/2019 9:42:49 AM	46851
Surr: DNOP	84.7	70-130		%Rec	1	8/19/2019 9:42:49 AM	46851
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/16/2019 7:11:03 PM	46816
Surr: BFB	99.9	77.4-118		%Rec	1	8/16/2019 7:11:03 PM	46816

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908772**

Date Reported: **8/20/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** E SE @ 4ft

**Project:** Mav 19 003

**Collection Date:** 8/13/2019 10:20:00 AM

**Lab ID:** 1908772-007

**Matrix:** SOIL

**Received Date:** 8/14/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	700	61		mg/Kg	20	8/16/2019 8:43:34 PM	46862
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	80	9.6		mg/Kg	1	8/17/2019 4:46:43 PM	46851
Motor Oil Range Organics (MRO)	50	48		mg/Kg	1	8/17/2019 4:46:43 PM	46851
Surr: DNOP	75.0	70-130		%Rec	1	8/17/2019 4:46:43 PM	46851
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/16/2019 7:34:34 PM	46816
Surr: BFB	94.2	77.4-118		%Rec	1	8/16/2019 7:34:34 PM	46816

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1908772

20-Aug-19

Client: Safety &amp; Environmental Solutions

Project: Mav 19 003

Sample ID: <b>MB-46848</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46848</b>	RunNo: <b>62203</b>								
Prep Date: <b>8/16/2019</b>	Analysis Date: <b>8/16/2019</b>	SeqNo: <b>2113198</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	4.5								

Sample ID: <b>LCS-46848</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46848</b>	RunNo: <b>62203</b>								
Prep Date: <b>8/16/2019</b>	Analysis Date: <b>8/16/2019</b>	SeqNo: <b>2113199</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Sample ID: <b>MB-46862</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46862</b>	RunNo: <b>62203</b>								
Prep Date: <b>8/16/2019</b>	Analysis Date: <b>8/16/2019</b>	SeqNo: <b>2113238</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-46862</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46862</b>	RunNo: <b>62203</b>								
Prep Date: <b>8/16/2019</b>	Analysis Date: <b>8/16/2019</b>	SeqNo: <b>2113239</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	90	110			

### Qualifiers:

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1908772

20-Aug-19

Client: Safety &amp; Environmental Solutions

Project: Mav 19 003

Sample ID: <b>MB-46851</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46851</b>	RunNo: <b>62213</b>								
Prep Date: <b>8/16/2019</b>	Analysis Date: <b>8/17/2019</b>	SeqNo: <b>2112564</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.3	70	130			

Sample ID: <b>MB-46852</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46852</b>	RunNo: <b>62213</b>								
Prep Date: <b>8/16/2019</b>	Analysis Date: <b>8/17/2019</b>	SeqNo: <b>2112565</b> Units: <b>%Rec</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		83.0	70	130			

Sample ID: <b>LCS-46851</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46851</b>	RunNo: <b>62213</b>								
Prep Date: <b>8/16/2019</b>	Analysis Date: <b>8/17/2019</b>	SeqNo: <b>2112567</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.9	63.9	124			
Surr: DNOP	3.9		5.000		77.7	70	130			

Sample ID: <b>LCS-46852</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46852</b>	RunNo: <b>62213</b>								
Prep Date: <b>8/16/2019</b>	Analysis Date: <b>8/17/2019</b>	SeqNo: <b>2112568</b> Units: <b>%Rec</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.6		5.000		72.9	70	130			

### Qualifiers:

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1908772

20-Aug-19

Client: Safety &amp; Environmental Solutions

Project: Mav 19 003

Sample ID: <b>MB-46816</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46816</b>	RunNo: <b>62170</b>								
Prep Date: <b>8/15/2019</b>	Analysis Date: <b>8/16/2019</b>	SeqNo: <b>2112385</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.1	77.4	118			

Sample ID: <b>LCS-46816</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46816</b>	RunNo: <b>62170</b>								
Prep Date: <b>8/15/2019</b>	Analysis Date: <b>8/16/2019</b>	SeqNo: <b>2112386</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.3	80	120			
Surr: BFB	1000		1000		104	77.4	118			

### Qualifiers:

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

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

# Sample Log-In Check List

Client Name: **Safety Env Solutions**

Work Order Number: **1908772**

RcptNo: 1

Received By: **Desiree Dominguez**

8/14/2019 9:00:00 AM

Completed By: **Erin Melendrez**

8/14/2019 10:25:35 AM

Reviewed By: *LB*

8/14/19

*D2*  
*UAG*

## 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  $6.0^{\circ}\text{C}$ ? 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: DAD 8/14/19

## Special Handling (if applicable)

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

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	1.9	Good	Yes			

# Chain-of-Custody Record

Client: SEI

Mailing Address: 703 E. Clinton

Phone #: 505-397-8824

email or Fax#: 505-397-0510

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

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type) \_\_\_\_\_

Date	Time	Matrix	Sample Name
8/13/19	1010	Soil	N2, SW @ 2'
✓	1116		N2, SW @ 2'
✓	1010		SP2 E wall
✓	1015		SP3 SW @ 4ft
✓	1115		E, SW @ 2ft
✓	1105		N2, SW @ 2ft
✓	1020		E, SW @ 4ft
			1B still in lab
			9th bottle in lab

Date: 8/13 Time: 4:40 Relinquished by: Rebecca Pons

Date: 8/13/19 Time: 190 Relinquished by: [Signature]

Turn-Around Time: 5 day ☒ Standard ☐ Rush

Project Name: MAV 19 003

Project #: 300000

Project Manager: Rebecca Pons

Sampler: On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CFC): 1.9 - 0.0 - 1.9°C

Container Type and #

Preservative Type

HEAL No. 1908772

Container Type and #	Preservative Type	HEAL No.
	<u>Alc</u>	<u>-001</u>
	<u>✓</u>	<u>-002</u>
	<u>✓</u>	<u>-003</u>
	<u>✓</u>	<u>-004</u>
	<u>✓</u>	<u>-005</u>
	<u>✓</u>	<u>-006</u>
	<u>✓</u>	<u>-007</u>

Received by: [Signature] Date: 8/13/19 Time: 16:40

Received by: DPB Date: 8/14/19 Time: 9:00



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
✓					✓			
✓					✓			
✓					✓			
✓					✓			
✓					✓			
✓					✓			

Remarks:



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

August 07, 2019

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

RE: Jalmat 225

OrderNo.: 1908018

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/1/2019 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](http://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 **1908018**

Date Reported: **8/7/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP1 @ 4'

**Project:** Jalmat 225

**Collection Date:** 7/31/2019 12:05:00 PM

**Lab ID:** 1908018-001

**Matrix:** SOIL

**Received Date:** 8/1/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	500	60		mg/Kg	20	8/5/2019 11:11:52 PM	46597
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	74	9.6		mg/Kg	1	8/5/2019 11:02:28 AM	46571
Motor Oil Range Organics (MRO)	61	48		mg/Kg	1	8/5/2019 11:02:28 AM	46571
Surr: DNOP	102	70-130		%Rec	1	8/5/2019 11:02:28 AM	46571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/6/2019 1:51:02 PM	46565
Surr: BFB	98.8	73.8-119		%Rec	1	8/6/2019 1:51:02 PM	46565

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908018**

Date Reported: **8/7/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP2 @ Bottom

**Project:** Jalmat 225

**Collection Date:** 7/31/2019 12:30:00 PM

**Lab ID:** 1908018-002

**Matrix:** SOIL

**Received Date:** 8/1/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	110	60		mg/Kg	20	8/5/2019 11:24:16 PM	46597
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	170	9.7		mg/Kg	1	8/6/2019 11:17:09 AM	46571
Motor Oil Range Organics (MRO)	140	48		mg/Kg	1	8/6/2019 11:17:09 AM	46571
Surr: DNOP	103	70-130		%Rec	1	8/6/2019 11:17:09 AM	46571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/5/2019 9:29:00 PM	46565
Surr: BFB	110	73.8-119		%Rec	1	8/5/2019 9:29:00 PM	46565

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908018**

Date Reported: **8/7/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP3 @ Bottom

**Project:** Jalmat 225

**Collection Date:** 7/31/2019 1:15:00 PM

**Lab ID:** 1908018-003

**Matrix:** SOIL

**Received Date:** 8/1/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	110	60		mg/Kg	20	8/5/2019 11:36:40 PM	46597
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	26	9.0		mg/Kg	1	8/5/2019 2:25:46 PM	46571
Motor Oil Range Organics (MRO)	46	45		mg/Kg	1	8/5/2019 2:25:46 PM	46571
Surr: DNOP	102	70-130		%Rec	1	8/5/2019 2:25:46 PM	46571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/5/2019 9:52:35 PM	46565
Surr: BFB	94.5	73.8-119		%Rec	1	8/5/2019 9:52:35 PM	46565

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908018**

Date Reported: **8/7/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** Spoils

**Project:** Jalmat 225

**Collection Date:** 7/31/2019 11:30:00 AM

**Lab ID:** 1908018-004

**Matrix:** SOIL

**Received Date:** 8/1/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	100	60		mg/Kg	20	8/5/2019 11:49:05 PM	46597
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	890	94		mg/Kg	10	8/5/2019 2:48:18 PM	46571
Motor Oil Range Organics (MRO)	680	470		mg/Kg	10	8/5/2019 2:48:18 PM	46571
Surr: DNOP	0	70-130	S	%Rec	10	8/5/2019 2:48:18 PM	46571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/5/2019 10:16:09 PM	46565
Surr: BFB	94.8	73.8-119		%Rec	1	8/5/2019 10:16:09 PM	46565

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908018**

Date Reported: **8/7/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** N Wall @ 1'

**Project:** Jalmat 225

**Collection Date:** 7/31/2019 2:20:00 PM

**Lab ID:** 1908018-005

**Matrix:** SOIL

**Received Date:** 8/1/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	8/6/2019 12:26:19 AM	46597
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	8/5/2019 3:10:42 PM	46571
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/5/2019 3:10:42 PM	46571
Surr: DNOP	97.4	70-130		%Rec	1	8/5/2019 3:10:42 PM	46571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/5/2019 10:39:44 PM	46565
Surr: BFB	90.9	73.8-119		%Rec	1	8/5/2019 10:39:44 PM	46565

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908018**

Date Reported: **8/7/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** NW Sidewall

**Project:** Jalmat 225

**Collection Date:** 7/31/2019 2:30:00 PM

**Lab ID:** 1908018-006

**Matrix:** SOIL

**Received Date:** 8/1/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	8/6/2019 12:38:44 AM	46597
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	100	10		mg/Kg	1	8/6/2019 11:41:13 AM	46571
Motor Oil Range Organics (MRO)	180	50		mg/Kg	1	8/6/2019 11:41:13 AM	46571
Surr: DNOP	104	70-130		%Rec	1	8/6/2019 11:41:13 AM	46571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/5/2019 11:03:19 PM	46565
Surr: BFB	92.1	73.8-119		%Rec	1	8/5/2019 11:03:19 PM	46565

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908018**

Date Reported: **8/7/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SW Sidewall

**Project:** Jalmat 225

**Collection Date:** 7/31/2019 2:55:00 PM

**Lab ID:** 1908018-007

**Matrix:** SOIL

**Received Date:** 8/1/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	8/6/2019 1:15:58 AM	46597
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/5/2019 3:55:40 PM	46571
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/5/2019 3:55:40 PM	46571
Surr: DNOP	99.0	70-130		%Rec	1	8/5/2019 3:55:40 PM	46571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/5/2019 11:26:55 PM	46565
Surr: BFB	89.1	73.8-119		%Rec	1	8/5/2019 11:26:55 PM	46565

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908018**

Date Reported: **8/7/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SE Sidewall

**Project:** Jalmat 225

**Collection Date:** 7/31/2019 2:40:00 PM

**Lab ID:** 1908018-008

**Matrix:** SOIL

**Received Date:** 8/1/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	8/6/2019 1:28:23 AM	46597
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	23	9.6		mg/Kg	1	8/5/2019 4:18:14 PM	46571
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/5/2019 4:18:14 PM	46571
Surr: DNOP	79.0	70-130		%Rec	1	8/5/2019 4:18:14 PM	46571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/5/2019 11:50:24 PM	46565
Surr: BFB	101	73.8-119		%Rec	1	8/5/2019 11:50:24 PM	46565

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1908018

07-Aug-19

Client: Safety &amp; Environmental Solutions

Project: Jalmat 225

Sample ID: <b>MB-46597</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBS</b>	Batch ID: <b>46597</b>	RunNo: <b>61924</b>
Prep Date: <b>8/5/2019</b>	Analysis Date: <b>8/5/2019</b>	SeqNo: <b>2100044</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: <b>LCS-46597</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSS</b>	Batch ID: <b>46597</b>	RunNo: <b>61924</b>
Prep Date: <b>8/5/2019</b>	Analysis Date: <b>8/5/2019</b>	SeqNo: <b>2100046</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15	1.5 15.00 0 97.8 90 110

### Qualifiers:

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

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



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1908018

07-Aug-19

Client: Safety &amp; Environmental Solutions

Project: Jalmat 225

Sample ID: <b>LCS-46571</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46571</b>	RunNo: <b>61865</b>								
Prep Date: <b>8/2/2019</b>	Analysis Date: <b>8/5/2019</b>	SeqNo: <b>2098678</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	63.9	124			
Surr: DNOP	4.5		5.000		89.1	70	130			

Sample ID: <b>MB-46571</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46571</b>	RunNo: <b>61865</b>								
Prep Date: <b>8/2/2019</b>	Analysis Date: <b>8/5/2019</b>	SeqNo: <b>2098679</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.3	70	130			

Sample ID: <b>LCS-46595</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46595</b>	RunNo: <b>61925</b>								
Prep Date: <b>8/5/2019</b>	Analysis Date: <b>8/6/2019</b>	SeqNo: <b>2100152</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID: <b>MB-46595</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46595</b>	RunNo: <b>61925</b>								
Prep Date: <b>8/5/2019</b>	Analysis Date: <b>8/6/2019</b>	SeqNo: <b>2100153</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		108	70	130			

### Qualifiers:

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1908018

07-Aug-19

Client: Safety &amp; Environmental Solutions

Project: Jalmat 225

Sample ID: <b>LCS-46565</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46565</b>	RunNo: <b>61895</b>								
Prep Date: <b>8/2/2019</b>	Analysis Date: <b>8/5/2019</b>	SeqNo: <b>2099101</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.0	80.1	123			
Surr: BFB	1100		1000		106	73.8	119			

Sample ID: <b>MB-46565</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46565</b>	RunNo: <b>61895</b>								
Prep Date: <b>8/2/2019</b>	Analysis Date: <b>8/5/2019</b>	SeqNo: <b>2099102</b>			Units: <b>mg/Kg</b>					
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			

Sample ID: <b>MB-46580</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>46580</b>	RunNo: <b>61943</b>								
Prep Date: <b>8/5/2019</b>	Analysis Date: <b>8/7/2019</b>	SeqNo: <b>2100730</b>			Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		98.1	73.8	119			

Sample ID: <b>LCS-46580</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>46580</b>	RunNo: <b>61943</b>								
Prep Date: <b>8/5/2019</b>	Analysis Date: <b>8/7/2019</b>	SeqNo: <b>2100749</b>			Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	73.8	119			

### Qualifiers:

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

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



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

## Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 1908018

RcptNo: 1

Received By: Leah Baca

8/1/2019 9:05:00 AM

*Leah Baca*

Completed By: Erin Melendrez

8/1/2019 10:47:10 AM

*EM*

Reviewed By: ENM

8/1/19

### 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  $6.0^{\circ}\text{C}$ ? 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? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: DAD 8/1/19

### 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good	Yes			



# Chain-of-Custody Record

Client: Safeco Environmental Sol.

Mailing Address: 203 E Clinton

Phone #: 808-882-40

email or Fax#: 505-397-6510

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: 48 hour

☐ Standard ☒ Rush 5 Day Rush

Project Name: talimat 225

Project #: MAV-19-003

Project Manager: Rebecca Pons

Sampler: R Pons

On Ice: ☒ Yes ☐ No

Sample Temperature: 08 - 0.2 = 0.6C

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
7/31	12:05	soil	SP1 @ 4'	jar	yes	1908018
7/31	12:30		SP2 @ bottom	jar	✓	-001
7/31	1:15		SP3 @ bottom	jar	✓	-002
7/31	1:30		spoils*	jar	✓	-003
7/31	2:20		W. wall @ 1'	jar	✓	-004
7/31	2:30		NW Sweeney	jar	✓	-005
7/31	2:55		SW Sweeney	jar	✓	-006
7/31	2:40		SE Sweeney	jar	✓	-007
						-008

Date: <u>7/31</u>	Time: <u>4:00</u>	Relinquished by: <u>Rebecca Pons</u>	Received by: <u>[Signature]</u>	Date: <u>7/31/9</u>	Time: <u>1600</u>
Date: <u>7/31/9</u>	Time: <u>1900</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>Leah B...</u>	Date: <u>8/1/9</u>	Time: <u>0905</u>

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.



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

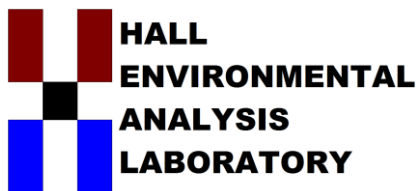
### Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + 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 <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
		✓	✓				✓				
		✓	✓				✓				
		✓	✓				✓				
		✓	✓				✓				
		✓	✓				✓				
		✓	✓				✓				
		✓	✓				✓				

Remarks: \* Please Put spoils on a separate report

change from 48 hour to 5 Day Rush per skip

108119



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

August 28, 2019

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

RE: 225 Flowline

OrderNo.: 1908B96

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/21/2019 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](http://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 **1908B96**

Date Reported: **8/28/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP2 E Wall (B)

**Project:** 225 Flowline

**Collection Date:** 8/16/2019

**Lab ID:** 1908B96-001

**Matrix:** SOIL

**Received Date:** 8/21/2019 9:02:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/28/2019 7:09:58 AM	47105
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	86	9.4		mg/Kg	1	8/26/2019 12:24:23 PM	46960
Motor Oil Range Organics (MRO)	79	47		mg/Kg	1	8/26/2019 12:24:23 PM	46960
Surr: DNOP	83.6	70-130		%Rec	1	8/26/2019 12:24:23 PM	46960
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/22/2019 7:57:34 PM	46958
Surr: BFB	96.5	77.4-118		%Rec	1	8/22/2019 7:57:34 PM	46958

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908B96**

Date Reported: **8/28/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** W SW #1 (B)

**Project:** 225 Flowline

**Collection Date:** 8/16/2019

**Lab ID:** 1908B96-002

**Matrix:** SOIL

**Received Date:** 8/21/2019 9:02:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/28/2019 7:22:23 AM	47105

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1908B96**

Date Reported: **8/28/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** E. SE @ 5' (B)

**Project:** 225 Flowline

**Collection Date:** 8/16/2019

**Lab ID:** 1908B96-003

**Matrix:** SOIL

**Received Date:** 8/21/2019 9:02:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	8/28/2019 7:34:48 AM	47105

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

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



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1908B96

28-Aug-19

Client: Safety &amp; Environmental Solutions

Project: 225 Flowline

Sample ID: <b>MB-47105</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>47105</b>	RunNo: <b>62447</b>								
Prep Date: <b>8/27/2019</b>	Analysis Date: <b>8/28/2019</b>	SeqNo: <b>2124915</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-47105</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>47105</b>	RunNo: <b>62447</b>								
Prep Date: <b>8/27/2019</b>	Analysis Date: <b>8/28/2019</b>	SeqNo: <b>2124916</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

### Qualifiers:

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1908B96

28-Aug-19

Client: Safety &amp; Environmental Solutions

Project: 225 Flowline

Sample ID: <b>LCS-46960</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>46960</b>		RunNo: <b>62322</b>							
Prep Date: <b>8/21/2019</b>	Analysis Date: <b>8/22/2019</b>		SeqNo: <b>2117903</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	63.9	124			
Surr: DNOP	4.7		5.000		94.8	70	130			

Sample ID: <b>MB-46960</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>46960</b>		RunNo: <b>62322</b>							
Prep Date: <b>8/21/2019</b>	Analysis Date: <b>8/22/2019</b>		SeqNo: <b>2117906</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.5	70	130			

### Qualifiers:

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1908B96

28-Aug-19

Client: Safety &amp; Environmental Solutions

Project: 225 Flowline

Sample ID: <b>MB-46958</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>46958</b>		RunNo: <b>62340</b>							
Prep Date: <b>8/21/2019</b>	Analysis Date: <b>8/22/2019</b>		SeqNo: <b>2119209</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.3	77.4	118			

Sample ID: <b>LCS-46958</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>46958</b>		RunNo: <b>62340</b>							
Prep Date: <b>8/21/2019</b>	Analysis Date: <b>8/22/2019</b>		SeqNo: <b>2119210</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.5	80	120			
Surr: BFB	1000		1000		103	77.4	118			

### Qualifiers:

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

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

# Sample Log-In Check List

Client Name: **Safety Env Solutions**

Work Order Number: **1908B96**

RcptNo: **1**

Received By: **Isaiah Ortiz**

8/21/2019 9:02:00 AM

Completed By: **Erin Melendrez**

8/21/2019 10:13:16 AM

Reviewed By: *LB*

8/21/19

*IOX*  
*uug*

## 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° 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? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: *DAD 8/21/19*

## 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	2.7	Good	Yes			
2	2.3	Good	Yes			

