

**Energy Quest II, LL  
Sharara State Lease Battery**

**Closure Report**

**U/L F, Section 16, T17S, R33E  
Lea County, New Mexico**

**1RP-3481**

**March 3, 2020**



**Prepared for:**

**Energy Quest  
4526 Research Forest Dr., Ste. 200  
Woodlands, TX 77381**

**By:**

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

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**I. Company Contacts**

Representative	Company	Telephone	E-mail
Jeff Teare	Energy Quest	281-875-6200	<a href="mailto:Jeff.teare@energyquest.us">Jeff.teare@energyquest.us</a>
Bob Allen	SESI	575-397-0510	<a href="mailto:ballen@sesi-nm.com">ballen@sesi-nm.com</a>

**II. Background**

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Energy Quest to assess a spill area on the Sharara State Lease Battery. This site is situated in Unit Letter F, Section 16, Township 17S and Range 33E, in Lea county New Mexico.

According to the C-141: the cause of release was due to a tank bottom failure in the night.

**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 165' bgs. for Township 17S and Range 33E.

**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:

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	TDS		
	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
51 feet-100 feet	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
	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
>100 feet	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
	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 March 04, 2019 SESI personnel together with equipment and personnel from Custom Welding of Hobbs, NM were on site to advance Auger Holes for purposes of soil delineation and screening. The impacted surface area had been previously surface-scraped and material was stockpiled for disposal. Seven (7) Auger holes were conducted at the surface only due to rocky material. The soil samples were properly packaged, preserved, and transported to Hall Laboratories via chain of custody, and were analyzed for the following constituents: Chlorides (CI Method 300.0 Anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The table below is a recap of the results from the Hall Laboratory Analyses (Appendix C):

Energy Quest Sharara State Lease Battery Soil Sample Results: Hall Environmental Analysis Laboratory 3/4/19								
SAMPLE ID	Chlorides	TPH DRO	TPH MRO	TPH GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
AH 1 @ SURFACE	ND	8600	4300	ND	ND	ND	ND	ND
AH 2 @ SURFACE	ND	8800	3800	ND	ND	ND	ND	ND
AH 3 @ SURFACE	ND	3200	2700	ND	ND	ND	ND	ND
AH 4 @ SURFACE	ND	2100	1600	ND	ND	ND	ND	ND
AH 5 @ SURFACE	68	13000	7300	ND	ND	ND	ND	ND
AH 6 @ SURFACE	110	15000	8800	ND	ND	ND	ND	ND
AH7 @ SURFACE	ND	4200	3500	ND	ND	ND	ND	ND

On March 15, 2019 SESI personnel together with personnel and equipment from Custom Welding of Hobbs, NM returned to the site, in order to continue with delineation efforts by installing test trenches to determine the vertical extent of the impact. Six (6) test trenches were installed and soil samples were collected and 1 ft bgs and 1.5 ft bgs unless refusal occurred at 1 ft.

The soil samples were properly packaged, preserved, and transported to Hall Laboratories via chain of custody, and were analyzed for the following constituents: Chlorides (CI Method 300.0 Anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The table below is a recap of the results from the Hall Laboratory Analyses (Appendix C):

Energy Quest Sharara State Lease Battery Soil Sample Results: Hall Environmental Analysis Laboratory 3/15/19								
SAMPLE ID	Chlorides	TPH DRO	TPH MRO	TPH GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
TT 1 @ 1 FT	ND	1500	1200	ND	ND	ND	ND	ND
TT1 @ 1.5 FT	ND	63	55	ND	ND	ND	ND	ND
TT 2 @ 1 FT	ND	540	520	11	ND	ND	ND	0.12
TT 2 @ 1.5 FT	ND	70	67	ND	ND	ND	ND	ND
TT 3 @ 1 FT	ND	54	51	ND	ND	ND	ND	ND
TT 4 @ 1 FT	63	590	380	ND	ND	ND	ND	ND
TT5 @ 1 FT	74	50	ND	ND	ND	ND	ND	ND
TT 6 @ 1 FT	71	40	ND	ND	ND	ND	ND	ND

The impacted area was excavated to depths where soil screening levels for chloride were <600 ppm in pasture areas and <20,000 ppm on location, TPH screening levels of >2,500 ppm, and BTEX levels of

<50 ppm. Impacted soil was transported to an NMOCD approved disposal facility. Excavated areas were backfilled with caliche and topsoil.

On September 23<sup>rd</sup> and September 24<sup>th</sup>, 2019 SESI personnel perform confirmation sampling to substantiate proper excavation depths. Twenty-three samples were grabbed from the excavated areas. They were packaged and preserved for transport to Hall Laboratories via Chain of Custody and analyzed for Chloride (CL Method 300.0 Anions), Total Petroleum Hydrocarbons (TPH Method 8015), and BTEX (BTEX Method 9021B). The table below is a recap of the results from the Hall Laboratory Analyses (Appendix C). An additional 8 confirmation samples were grabbed and sent for analyzation.

Energy Quest Sharara State Lease Battery Soil Sample Results: Hall Environmental Analysis Laboratory 9/23/19 to 9/24/19 and 11/6/19								
SAMPLE ID	Chlorides	TPH DRO	TPH MRO	TPH GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
SP1 @ BOTTOM 1 FT	ND	14	ND	ND	ND	ND	ND	ND
SP2 @ BOTTOM 1.5 FT	ND	ND	ND	ND	ND	ND	ND	ND
SP3 @ BOTTOM 1.5 FT	ND	15	ND	ND	ND	ND	ND	ND
SP4 @ EAST WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP5 @ NORTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP6 @ SOUTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP7 @ NORTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP8 @ SOUTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP9 @ NORTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP10 @ SOUTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP11 @ BOTTOM 1 FT	95	300	250	ND	ND	ND	ND	ND
SP12 @ BOTTOM 1 FT	94	260	240	ND	ND	ND	ND	ND
SP13 @ BOTTOM 1 FT	88	270	250	ND	ND	ND	ND	ND
SP14 @ NORTH WALL	ND	42	300	ND	ND	ND	ND	ND
SP15 @ SOUTH WALL	ND	26	110	ND	ND	ND	ND	ND
SP16 @ NORTH WALL	ND	36	150	ND	ND	ND	ND	ND
SP17 @ SOUTH WALL	ND	27	130	ND	ND	ND	ND	ND
SP18 @ BOTTOM 1 FT	ND	29	98	ND	ND	ND	ND	ND
SP19 @ BOTTOM 1 FT	ND	19	61	ND	ND	ND	ND	ND
SP20 @ BOTTOM 1 FT	ND	12	45	ND	ND	ND	ND	ND
SP21 @ NORTH WALL	ND	11	ND	ND	ND	ND	ND	ND
SP22 @ SOUTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP23 @ NORTH WALL	ND	13	ND	ND	ND	ND	ND	ND
SP24 @ WEST WALL	150	ND	ND	ND	ND	ND	ND	ND
SP25 @ EAST WALL	120	ND	ND	ND	ND	ND	ND	ND
SP26 @ BOTTOM 1 FT	1300	ND	ND	ND	ND	ND	ND	ND
SP27 @ WEST WALL	130	ND	ND	ND	ND	ND	ND	ND
SP28 @ SOUTH WALL	230	ND	ND	ND	ND	ND	ND	ND
SP29 @ BOTTOM 1 FT	1300	ND	ND	ND	ND	ND	ND	ND
SP30 @ NORTH WALL	140	ND	ND	ND	ND	ND	ND	ND
SP31 @ EAST WALL	220	ND	ND	ND	ND	ND	ND	ND

## **VI. Conclusions**

The spill area was excavated and remediated to the NMOCD approved work plan protocol. All impacted soil was transported to an NMOCD approved facility for disposal. A total of 900 yards of impacted soil were disposed of. Local soil was transported in for backfill material of the excavated area.

Based on the confirmation sampling results, SESI, on behalf of Energy Quest respectfully submits this closure report for your consideration and conclusion of the associated remediation permit.

## **VII. Figures & Appendices**

Figure 1 – Site Map  
Appendix A – Site Photographs  
Appendix B – C-141  
Appendix C – Analytical

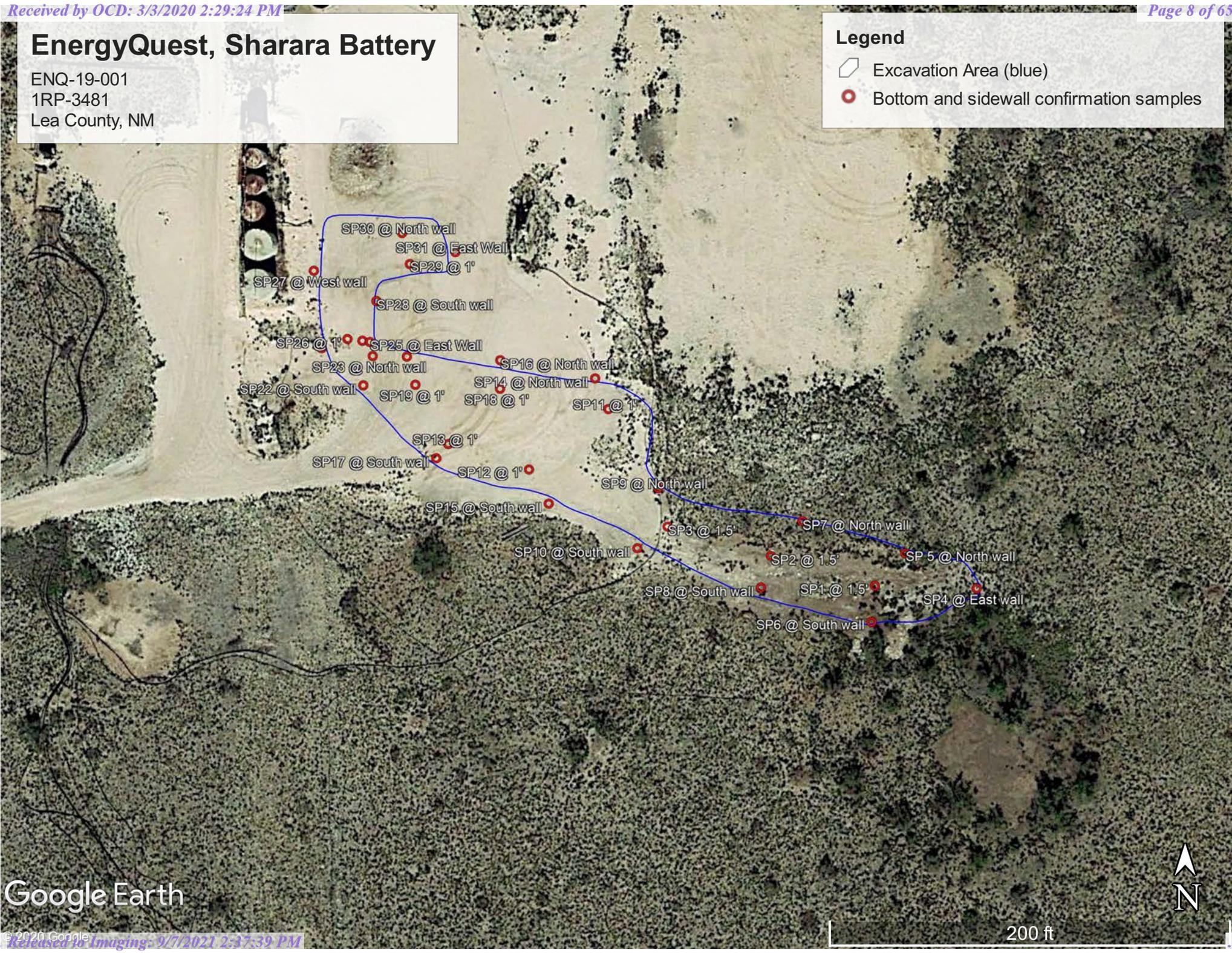
# **Figure 1 Site Map**

# EnergyQuest, Sharara Battery

ENQ-19-001  
1RP-3481  
Lea County, NM

## Legend

-  Excavation Area (blue)
-  Bottom and sidewall confirmation samples



Google Earth



EnergyQuest, Sharara Battery

Confirmation sample points

SP1 @ BOTTOM 1', N 32.83770 W-103.67174  
SP2 @ BOTTOM 1.5', N 32.83774 W-103.67191  
SP3 @ BOTTOM 1.5', N 32.83778 W-103.67207  
SP4 @ EAST WALL, N 32.83770 W-103.67157  
SP5 @ NORTH WALL, N 32.83774 W-103.67169  
SP6 @ SOUTH WALL, N 32.83765 W-103.67174  
SP7 @ NORTH WALL, N 32.83779 W-103.67186  
SP8 @ SOUTH WALL, N 32.83770 W-103.67192  
SP9 @ NORTH WALL, N 32.83783 W-103.67209  
SP10 @ SOUTH WALL, N 32.83775 W-103.67212  
SP11 @ BOTTOM 1', N 32.83794 W-103.67217  
SP12 @ BOTTOM 1', N 32.83786 W-103.67230  
SP13 @ BOTTOM 1', N 32.83789 W-103.67243  
SP14 @ N WALL, N 32.83798 W-103.67219  
SP15 @ SOUTH WALL, N 32.83781 W-103.67227  
SP16 @ N WALL, N 32.83801 W-103.67234  
SP17 @ SOUTH WALL, N 32.83787 W-103.67245  
SP18 @ BOTTOM 1', N 32.83797 W-103.67234  
SP19 @ BOTTOM 1', N 32.83797 W-103.67248  
SP20 @ BOTTOM 1', N 32.83803 W-103.67257  
SP21 @ NORTH WAL, N 32.83801 W-103.67249  
SP22 @ SOUTH WALL, N 32.83797 W-103.67256  
SP23 @ N WALL, N 32.83801 W-103.67255  
SP24 @ WEST WALL, N 32.83802 W-103.67263  
SP25 @ EAST WALL, N 32.83803 W-103.67255

SP26 @ BOTTOM 1', N 32.83803 W-103.67259  
SP27 @ WEST WALL, N 32.83813 W-103.67264  
SP28 @ SOUTH WALL, N 32.83809 W-103.67254  
SP29 @ BOTTOM 1', N 32.83814 W-103.67249  
SP30 @ N WALL, N 32.83818 W-103.67250  
SP31 @ EAST WALL, N 32.83815 W-103.67242

# **Appendix A Site Photographs**

# EnergyQuest, Sharara Battery

## ENQ-19-001





# **Appendix B C-141**

Incident ID	nTO1500729893
District RP	1RP-3481
Facility ID	
Application ID	

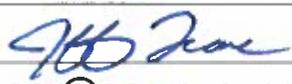
### Closure

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: Jeff Teare Title: VP of Operations  
 Signature:  Date: 12/19/2019  
 email: jeff.teare@energyquest.us Telephone: (281) 875-6200

**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: 09/07/2021  
 Printed Name: Bradford Billings Title: Envi. Spec.A

# **Appendix C Analytical Data**



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)

October 03, 2019

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

RE: Energy Quest Sahara Battery

OrderNo.: 1909E49

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 23 sample(s) on 9/25/2019 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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-1 Bottom 1.5 Ft.

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 8:30:00 AM

**Lab ID:** 1909E49-001

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	9/27/2019 10:47:25 PM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	14	9.8		mg/Kg	1	9/30/2019 12:22:18 PM	47747
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2019 12:22:18 PM	47747
Surr: DNOP	105	70-130		%Rec	1	9/30/2019 12:22:18 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2019 10:48:49 AM	47746
Surr: BFB	95.1	77.4-118		%Rec	1	9/27/2019 10:48:49 AM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/27/2019 10:48:49 AM	47746
Toluene	ND	0.048		mg/Kg	1	9/27/2019 10:48:49 AM	47746
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2019 10:48:49 AM	47746
Xylenes, Total	ND	0.097		mg/Kg	1	9/27/2019 10:48:49 AM	47746
Surr: 4-Bromofluorobenzene	91.4	80-120		%Rec	1	9/27/2019 10:48:49 AM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-2 Bottom 1.5 Ft

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 8:50:00 AM

**Lab ID:** 1909E49-002

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	9/27/2019 10:59:50 PM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	9/30/2019 1:59:23 PM	47747
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/30/2019 1:59:23 PM	47747
Surr: DNOP	116	70-130		%Rec	1	9/30/2019 1:59:23 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2019 11:59:19 AM	47746
Surr: BFB	98.5	77.4-118		%Rec	1	9/27/2019 11:59:19 AM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 11:59:19 AM	47746
Toluene	ND	0.049		mg/Kg	1	9/27/2019 11:59:19 AM	47746
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2019 11:59:19 AM	47746
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2019 11:59:19 AM	47746
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	9/27/2019 11:59:19 AM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-3 Bottom 1.5 Ft

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 9:15:00 AM

**Lab ID:** 1909E49-003

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	9/27/2019 11:12:15 PM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	15	9.9		mg/Kg	1	9/27/2019 2:18:04 PM	47747
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/27/2019 2:18:04 PM	47747
Surr: DNOP	110	70-130		%Rec	1	9/27/2019 2:18:04 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2019 12:22:48 PM	47746
Surr: BFB	89.6	77.4-118		%Rec	1	9/27/2019 12:22:48 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/27/2019 12:22:48 PM	47746
Toluene	ND	0.048		mg/Kg	1	9/27/2019 12:22:48 PM	47746
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2019 12:22:48 PM	47746
Xylenes, Total	ND	0.096		mg/Kg	1	9/27/2019 12:22:48 PM	47746
Surr: 4-Bromofluorobenzene	88.3	80-120		%Rec	1	9/27/2019 12:22:48 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-4 East Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 9:35:00 AM

**Lab ID:** 1909E49-004

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	9/27/2019 11:24:40 PM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/30/2019 2:23:39 PM	47747
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2019 2:23:39 PM	47747
Surr: DNOP	101	70-130		%Rec	1	9/30/2019 2:23:39 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2019 12:46:18 PM	47746
Surr: BFB	90.0	77.4-118		%Rec	1	9/27/2019 12:46:18 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/27/2019 12:46:18 PM	47746
Toluene	ND	0.048		mg/Kg	1	9/27/2019 12:46:18 PM	47746
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2019 12:46:18 PM	47746
Xylenes, Total	ND	0.096		mg/Kg	1	9/27/2019 12:46:18 PM	47746
Surr: 4-Bromofluorobenzene	88.5	80-120		%Rec	1	9/27/2019 12:46:18 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-5 North Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 9:50:00 AM

**Lab ID:** 1909E49-005

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	9/27/2019 11:37:05 PM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2019 3:16:53 PM	47747
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2019 3:16:53 PM	47747
Surr: DNOP	113	70-130		%Rec	1	9/30/2019 3:16:53 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2019 1:09:48 PM	47746
Surr: BFB	101	77.4-118		%Rec	1	9/27/2019 1:09:48 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 1:09:48 PM	47746
Toluene	ND	0.050		mg/Kg	1	9/27/2019 1:09:48 PM	47746
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2019 1:09:48 PM	47746
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2019 1:09:48 PM	47746
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	9/27/2019 1:09:48 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-6 South Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 10:15:00 AM

**Lab ID:** 1909E49-006

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	9/27/2019 11:49:30 PM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/30/2019 3:41:09 PM	47747
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2019 3:41:09 PM	47747
Surr: DNOP	108	70-130		%Rec	1	9/30/2019 3:41:09 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2019 1:33:20 PM	47746
Surr: BFB	89.7	77.4-118		%Rec	1	9/27/2019 1:33:20 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 1:33:20 PM	47746
Toluene	ND	0.050		mg/Kg	1	9/27/2019 1:33:20 PM	47746
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2019 1:33:20 PM	47746
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2019 1:33:20 PM	47746
Surr: 4-Bromofluorobenzene	88.4	80-120		%Rec	1	9/27/2019 1:33:20 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-7 North Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 10:35:00 AM

**Lab ID:** 1909E49-007

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	9/28/2019 12:01:55 AM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2019 4:05:38 PM	47747
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2019 4:05:38 PM	47747
Surr: DNOP	111	70-130		%Rec	1	9/30/2019 4:05:38 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2019 1:56:49 PM	47746
Surr: BFB	91.2	77.4-118		%Rec	1	9/27/2019 1:56:49 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 1:56:49 PM	47746
Toluene	ND	0.050		mg/Kg	1	9/27/2019 1:56:49 PM	47746
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2019 1:56:49 PM	47746
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2019 1:56:49 PM	47746
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	9/27/2019 1:56:49 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-8 South Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 11:00:00 AM

**Lab ID:** 1909E49-008

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	9/28/2019 12:14:19 AM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/30/2019 4:29:53 PM	47747
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2019 4:29:53 PM	47747
Surr: DNOP	105	70-130		%Rec	1	9/30/2019 4:29:53 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2019 2:20:22 PM	47746
Surr: BFB	89.8	77.4-118		%Rec	1	9/27/2019 2:20:22 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 2:20:22 PM	47746
Toluene	ND	0.050		mg/Kg	1	9/27/2019 2:20:22 PM	47746
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2019 2:20:22 PM	47746
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2019 2:20:22 PM	47746
Surr: 4-Bromofluorobenzene	86.2	80-120		%Rec	1	9/27/2019 2:20:22 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-9 North Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 11:25:00 AM

**Lab ID:** 1909E49-009

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	9/28/2019 12:51:33 AM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2019 4:54:08 PM	47747
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2019 4:54:08 PM	47747
Surr: DNOP	102	70-130		%Rec	1	9/30/2019 4:54:08 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/27/2019 2:43:59 PM	47746
Surr: BFB	88.9	77.4-118		%Rec	1	9/27/2019 2:43:59 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/27/2019 2:43:59 PM	47746
Toluene	ND	0.047		mg/Kg	1	9/27/2019 2:43:59 PM	47746
Ethylbenzene	ND	0.047		mg/Kg	1	9/27/2019 2:43:59 PM	47746
Xylenes, Total	ND	0.095		mg/Kg	1	9/27/2019 2:43:59 PM	47746
Surr: 4-Bromofluorobenzene	86.4	80-120		%Rec	1	9/27/2019 2:43:59 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-10 South Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 11:40:00 AM

**Lab ID:** 1909E49-010

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	9/28/2019 1:03:57 AM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/30/2019 5:18:32 PM	47747
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2019 5:18:32 PM	47747
Surr: DNOP	107	70-130		%Rec	1	9/30/2019 5:18:32 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2019 5:04:58 PM	47746
Surr: BFB	89.9	77.4-118		%Rec	1	9/27/2019 5:04:58 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 5:04:58 PM	47746
Toluene	ND	0.049		mg/Kg	1	9/27/2019 5:04:58 PM	47746
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2019 5:04:58 PM	47746
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2019 5:04:58 PM	47746
Surr: 4-Bromofluorobenzene	87.9	80-120		%Rec	1	9/27/2019 5:04:58 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-11 Bottom 1 Ft

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 1:00:00 PM

**Lab ID:** 1909E49-011

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	95	60		mg/Kg	20	9/28/2019 1:16:22 AM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	300	19		mg/Kg	2	10/1/2019 10:43:24 PM	47747
Motor Oil Range Organics (MRO)	250	94		mg/Kg	2	10/1/2019 10:43:24 PM	47747
Surr: DNOP	119	70-130		%Rec	2	10/1/2019 10:43:24 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2019 5:28:23 PM	47746
Surr: BFB	89.9	77.4-118		%Rec	1	9/27/2019 5:28:23 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 5:28:23 PM	47746
Toluene	ND	0.050		mg/Kg	1	9/27/2019 5:28:23 PM	47746
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2019 5:28:23 PM	47746
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2019 5:28:23 PM	47746
Surr: 4-Bromofluorobenzene	86.8	80-120		%Rec	1	9/27/2019 5:28:23 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-12 Bottom 1 Ft

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 1:45:00 PM

**Lab ID:** 1909E49-012

**Matrix:** SOIL

**Received Date:** 9/25/2019 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	94	60		mg/Kg	20	9/28/2019 1:53:36 AM	47791
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	260	19		mg/Kg	2	10/1/2019 11:08:06 PM	47747
Motor Oil Range Organics (MRO)	240	97		mg/Kg	2	10/1/2019 11:08:06 PM	47747
Surr: DNOP	109	70-130		%Rec	2	10/1/2019 11:08:06 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2019 5:51:48 PM	47746
Surr: BFB	99.8	77.4-118		%Rec	1	9/27/2019 5:51:48 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/27/2019 5:51:48 PM	47746
Toluene	ND	0.049		mg/Kg	1	9/27/2019 5:51:48 PM	47746
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2019 5:51:48 PM	47746
Xylenes, Total	ND	0.097		mg/Kg	1	9/27/2019 5:51:48 PM	47746
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	9/27/2019 5:51:48 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-13 Bottom 1 Ft

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 1:45:00 PM

**Lab ID:** 1909E49-013

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	88	60		mg/Kg	20	9/30/2019 12:08:51 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	270	18		mg/Kg	2	10/1/2019 11:32:48 PM	47747
Motor Oil Range Organics (MRO)	250	91		mg/Kg	2	10/1/2019 11:32:48 PM	47747
Surr: DNOP	110	70-130		%Rec	2	10/1/2019 11:32:48 PM	47747
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2019 6:15:13 PM	47746
Surr: BFB	92.2	77.4-118		%Rec	1	9/27/2019 6:15:13 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 6:15:13 PM	47746
Toluene	ND	0.050		mg/Kg	1	9/27/2019 6:15:13 PM	47746
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2019 6:15:13 PM	47746
Xylenes, Total	ND	0.10		mg/Kg	1	9/27/2019 6:15:13 PM	47746
Surr: 4-Bromofluorobenzene	89.5	80-120		%Rec	1	9/27/2019 6:15:13 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-14 North Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 2:05:00 PM

**Lab ID:** 1909E49-014

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 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	9/30/2019 12:45:53 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	42	8.6		mg/Kg	1	9/30/2019 4:44:22 PM	47757
Motor Oil Range Organics (MRO)	300	43		mg/Kg	1	9/30/2019 4:44:22 PM	47757
Surr: DNOP	155	70-130	S	%Rec	1	9/30/2019 4:44:22 PM	47757
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/27/2019 6:38:36 PM	47746
Surr: BFB	90.0	77.4-118		%Rec	1	9/27/2019 6:38:36 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	9/27/2019 6:38:36 PM	47746
Toluene	ND	0.047		mg/Kg	1	9/27/2019 6:38:36 PM	47746
Ethylbenzene	ND	0.047		mg/Kg	1	9/27/2019 6:38:36 PM	47746
Xylenes, Total	ND	0.094		mg/Kg	1	9/27/2019 6:38:36 PM	47746
Surr: 4-Bromofluorobenzene	88.4	80-120		%Rec	1	9/27/2019 6:38:36 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-15 South Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 2:30:00 PM

**Lab ID:** 1909E49-015

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 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	9/30/2019 12:58:13 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	26	9.5		mg/Kg	1	10/1/2019 3:10:01 AM	47757
Motor Oil Range Organics (MRO)	110	47		mg/Kg	1	10/1/2019 3:10:01 AM	47757
Surr: DNOP	86.8	70-130		%Rec	1	10/1/2019 3:10:01 AM	47757
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2019 7:02:00 PM	47746
Surr: BFB	90.8	77.4-118		%Rec	1	9/27/2019 7:02:00 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 7:02:00 PM	47746
Toluene	ND	0.050		mg/Kg	1	9/27/2019 7:02:00 PM	47746
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2019 7:02:00 PM	47746
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2019 7:02:00 PM	47746
Surr: 4-Bromofluorobenzene	89.5	80-120		%Rec	1	9/27/2019 7:02:00 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-16 North Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 2:45:00 PM

**Lab ID:** 1909E49-016

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 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	9/30/2019 1:10:33 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	36	9.5		mg/Kg	1	10/1/2019 3:32:23 AM	47757
Motor Oil Range Organics (MRO)	150	48		mg/Kg	1	10/1/2019 3:32:23 AM	47757
Surr: DNOP	85.7	70-130		%Rec	1	10/1/2019 3:32:23 AM	47757
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2019 7:25:25 PM	47746
Surr: BFB	89.9	77.4-118		%Rec	1	9/27/2019 7:25:25 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 7:25:25 PM	47746
Toluene	ND	0.049		mg/Kg	1	9/27/2019 7:25:25 PM	47746
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2019 7:25:25 PM	47746
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2019 7:25:25 PM	47746
Surr: 4-Bromofluorobenzene	88.0	80-120		%Rec	1	9/27/2019 7:25:25 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-17 South Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/23/2019 3:05:00 PM

**Lab ID:** 1909E49-017

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 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	9/30/2019 1:22:54 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	27	9.6		mg/Kg	1	10/1/2019 3:54:34 AM	47757
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	10/1/2019 3:54:34 AM	47757
Surr: DNOP	76.2	70-130		%Rec	1	10/1/2019 3:54:34 AM	47757
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2019 7:48:55 PM	47746
Surr: BFB	100	77.4-118		%Rec	1	9/27/2019 7:48:55 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 7:48:55 PM	47746
Toluene	ND	0.049		mg/Kg	1	9/27/2019 7:48:55 PM	47746
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2019 7:48:55 PM	47746
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2019 7:48:55 PM	47746
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	9/27/2019 7:48:55 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-18 Bottom 1 Ft

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/24/2019 8:20:00 AM

**Lab ID:** 1909E49-018

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 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	9/30/2019 1:59:54 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	29	9.2		mg/Kg	1	10/1/2019 4:16:55 AM	47757
Motor Oil Range Organics (MRO)	98	46		mg/Kg	1	10/1/2019 4:16:55 AM	47757
Surr: DNOP	93.5	70-130		%Rec	1	10/1/2019 4:16:55 AM	47757
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2019 8:12:32 PM	47746
Surr: BFB	91.2	77.4-118		%Rec	1	9/27/2019 8:12:32 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 8:12:32 PM	47746
Toluene	ND	0.049		mg/Kg	1	9/27/2019 8:12:32 PM	47746
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2019 8:12:32 PM	47746
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2019 8:12:32 PM	47746
Surr: 4-Bromofluorobenzene	89.1	80-120		%Rec	1	9/27/2019 8:12:32 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-19 Bottom 1 Ft

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/24/2019 8:45:00 AM

**Lab ID:** 1909E49-019

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	61		mg/Kg	20	9/30/2019 2:12:15 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	19	9.6		mg/Kg	1	10/1/2019 4:39:06 AM	47757
Motor Oil Range Organics (MRO)	61	48		mg/Kg	1	10/1/2019 4:39:06 AM	47757
Surr: DNOP	99.0	70-130		%Rec	1	10/1/2019 4:39:06 AM	47757
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2019 8:36:07 PM	47746
Surr: BFB	96.6	77.4-118		%Rec	1	9/27/2019 8:36:07 PM	47746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/27/2019 8:36:07 PM	47746
Toluene	ND	0.049		mg/Kg	1	9/27/2019 8:36:07 PM	47746
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2019 8:36:07 PM	47746
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2019 8:36:07 PM	47746
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	9/27/2019 8:36:07 PM	47746

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-20 Bottom 1 Ft

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/24/2019 9:05:00 AM

**Lab ID:** 1909E49-020

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 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	9/30/2019 2:24:36 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	12	7.6		mg/Kg	1	10/1/2019 5:01:19 AM	47757
Motor Oil Range Organics (MRO)	45	38		mg/Kg	1	10/1/2019 5:01:19 AM	47757
Surr: DNOP	101	70-130		%Rec	1	10/1/2019 5:01:19 AM	47757
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2019 10:10:33 PM	47753
Surr: BFB	95.9	77.4-118		%Rec	1	9/27/2019 10:10:33 PM	47753
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 10:10:33 PM	47753
Toluene	ND	0.050		mg/Kg	1	9/27/2019 10:10:33 PM	47753
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2019 10:10:33 PM	47753
Xylenes, Total	ND	0.10		mg/Kg	1	9/27/2019 10:10:33 PM	47753
Surr: 4-Bromofluorobenzene	93.8	80-120		%Rec	1	9/27/2019 10:10:33 PM	47753

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-21 North Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/24/2019 9:20:00 AM

**Lab ID:** 1909E49-021

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 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	9/30/2019 2:36:57 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	11	9.6		mg/Kg	1	10/1/2019 5:23:35 AM	47757
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/1/2019 5:23:35 AM	47757
Surr: DNOP	90.2	70-130		%Rec	1	10/1/2019 5:23:35 AM	47757
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2019 11:22:07 PM	47753
Surr: BFB	94.4	77.4-118		%Rec	1	9/27/2019 11:22:07 PM	47753
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/27/2019 11:22:07 PM	47753
Toluene	ND	0.050		mg/Kg	1	9/27/2019 11:22:07 PM	47753
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2019 11:22:07 PM	47753
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2019 11:22:07 PM	47753
Surr: 4-Bromofluorobenzene	91.3	80-120		%Rec	1	9/27/2019 11:22:07 PM	47753

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-22 South Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/24/2019 9:40:00 AM

**Lab ID:** 1909E49-022

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 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	9/30/2019 2:49:18 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/27/2019 6:50:05 PM	47757
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/27/2019 6:50:05 PM	47757
Surr: DNOP	85.6	70-130		%Rec	1	9/27/2019 6:50:05 PM	47757
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2019 12:33:09 AM	47753
Surr: BFB	96.3	77.4-118		%Rec	1	9/28/2019 12:33:09 AM	47753
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/28/2019 12:33:09 AM	47753
Toluene	ND	0.049		mg/Kg	1	9/28/2019 12:33:09 AM	47753
Ethylbenzene	ND	0.049		mg/Kg	1	9/28/2019 12:33:09 AM	47753
Xylenes, Total	ND	0.099		mg/Kg	1	9/28/2019 12:33:09 AM	47753
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	9/28/2019 12:33:09 AM	47753

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		

**Analytical Report**

Lab Order **1909E49**

Date Reported: **10/3/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-23 North Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 9/24/2019 10:10:00 AM

**Lab ID:** 1909E49-023

**Matrix:** SOIL

**Received Date:** 9/25/2019 8:45:00 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	9/30/2019 3:01:39 PM	47807
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	13	9.7		mg/Kg	1	10/1/2019 5:45:49 AM	47757
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/1/2019 5:45:49 AM	47757
Surr: DNOP	97.1	70-130		%Rec	1	10/1/2019 5:45:49 AM	47757
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2019 12:56:46 AM	47753
Surr: BFB	94.4	77.4-118		%Rec	1	9/28/2019 12:56:46 AM	47753
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/28/2019 12:56:46 AM	47753
Toluene	ND	0.050		mg/Kg	1	9/28/2019 12:56:46 AM	47753
Ethylbenzene	ND	0.050		mg/Kg	1	9/28/2019 12:56:46 AM	47753
Xylenes, Total	ND	0.10		mg/Kg	1	9/28/2019 12:56:46 AM	47753
Surr: 4-Bromofluorobenzene	91.5	80-120		%Rec	1	9/28/2019 12:56:46 AM	47753

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#: 1909E49

03-Oct-19

**Client:** Safety & Environmental Solutions

**Project:** Energy Quest Sahara Battery

Sample ID: <b>MB-47791</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>47791</b>	RunNo: <b>63285</b>								
Prep Date: <b>9/27/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159539</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-47791</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>47791</b>	RunNo: <b>63285</b>								
Prep Date: <b>9/27/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159540</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	99.6	90	110			

Sample ID: <b>MB-47807</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>47807</b>	RunNo: <b>63323</b>								
Prep Date: <b>9/30/2019</b>	Analysis Date: <b>9/30/2019</b>	SeqNo: <b>2161434</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-47807</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>47807</b>	RunNo: <b>63323</b>								
Prep Date: <b>9/30/2019</b>	Analysis Date: <b>9/30/2019</b>	SeqNo: <b>2161435</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	92.5	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#: 1909E49

03-Oct-19

**Client:** Safety & Environmental Solutions  
**Project:** Energy Quest Sahara Battery

Sample ID: <b>LCS-47747</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>47747</b>	RunNo: <b>63254</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2158687</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	63.9	124			
Surr: DNOP	5.2		5.000		104	70	130			

Sample ID: <b>MB-47747</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>47747</b>	RunNo: <b>63254</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2158689</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	10		10.00		102	70	130			

Sample ID: <b>MB-47757</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>47757</b>	RunNo: <b>63256</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2160029</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	9.9		10.00		98.7	70	130			

Sample ID: <b>1909E49-014AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SP-14 North Wall</b>	Batch ID: <b>47757</b>	RunNo: <b>63295</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/30/2019</b>	SeqNo: <b>2161371</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	17.29	73.2	57	142			
Surr: DNOP	4.0		5.000		79.3	70	130			

Sample ID: <b>1909E49-014AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SP-14 North Wall</b>	Batch ID: <b>47757</b>	RunNo: <b>63295</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/30/2019</b>	SeqNo: <b>2161372</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	8.3	41.49	17.29	96.7	57	142	6.38	20	
Surr: DNOP	2.4		4.149		57.9	70	130	0	0	S

**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#: 1909E49

03-Oct-19

**Client:** Safety & Environmental Solutions

**Project:** Energy Quest Sahara Battery

Sample ID: <b>LCS-47757</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>47757</b>	RunNo: <b>63295</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>10/1/2019</b>	SeqNo: <b>2161409</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	63.9	124			
Surr: DNOP	4.9		5.000		97.5	70	130			

Sample ID: <b>LCS-47817</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>47817</b>	RunNo: <b>63328</b>								
Prep Date: <b>9/30/2019</b>	Analysis Date: <b>10/1/2019</b>	SeqNo: <b>2161904</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		104	70	130			

Sample ID: <b>MB-47817</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>47817</b>	RunNo: <b>63328</b>								
Prep Date: <b>9/30/2019</b>	Analysis Date: <b>10/1/2019</b>	SeqNo: <b>2161907</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		121	70	130			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1909E49

03-Oct-19

**Client:** Safety & Environmental Solutions  
**Project:** Energy Quest Sahara Battery

Sample ID: <b>MB-47746</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>47746</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159599</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		94.8	77.4	118			

Sample ID: <b>LCS-47746</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>47746</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159600</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	80	120			
Surr: BFB	1100		1000		106	77.4	118			

Sample ID: <b>MB-47753</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>47753</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159623</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	920		1000		91.5	77.4	118			

Sample ID: <b>LCS-47753</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>47753</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159624</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	80	120			
Surr: BFB	1100		1000		107	77.4	118			

Sample ID: <b>1909E49-020AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-20 Bottom 1 Ft</b>	Batch ID: <b>47753</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159626</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	34	4.7	23.61	0	142	69.1	142			S
Surr: BFB	1100		944.3		120	77.4	118			S

Sample ID: <b>1909E49-020AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-20 Bottom 1 Ft</b>	Batch ID: <b>47753</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159627</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1909E49

03-Oct-19

**Client:** Safety & Environmental Solutions

**Project:** Energy Quest Sahara Battery

Sample ID: <b>1909E49-020AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-20 Bottom 1 Ft</b>	Batch ID: <b>47753</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159627</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.8	24.04	0	130	69.1	142	7.27	20	
Surr: BFB	1100		961.5		113	77.4	118	0	0	

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1909E49

03-Oct-19

**Client:** Safety & Environmental Solutions

**Project:** Energy Quest Sahara Battery

Sample ID: <b>MB-47746</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>47746</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159639</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.3	80	120			

Sample ID: <b>LCS-47746</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>47746</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159640</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.5	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.6	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.7	80	120			

Sample ID: <b>1909E49-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SP-1 Bottom 1.5 Ft.</b>	Batch ID: <b>47746</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159643</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9911	0	98.6	76	123			
Toluene	1.0	0.050	0.9911	0.006880	103	80.3	127			
Ethylbenzene	1.1	0.050	0.9911	0	107	80.2	131			
Xylenes, Total	3.2	0.099	2.973	0.01328	109	78	133			
Surr: 4-Bromofluorobenzene	0.92		0.9911		92.6	80	120			

Sample ID: <b>1909E49-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SP-1 Bottom 1.5 Ft.</b>	Batch ID: <b>47746</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159644</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9699	0	105	76	123	4.53	20	
Toluene	1.1	0.048	0.9699	0.006880	111	80.3	127	5.20	20	
Ethylbenzene	1.1	0.048	0.9699	0	115	80.2	131	4.82	20	
Xylenes, Total	3.4	0.097	2.910	0.01328	115	78	133	3.77	20	
Surr: 4-Bromofluorobenzene	0.98		0.9699		101	80	120	0	0	

**Qualifiers:**

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1909E49

03-Oct-19

**Client:** Safety & Environmental Solutions  
**Project:** Energy Quest Sahara Battery

Sample ID: <b>MB-47753</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>47753</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159663</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.2	80	120			

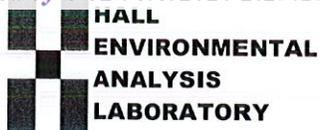
Sample ID: <b>LCS-47753</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>47753</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159664</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	110	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: <b>1909E49-021AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SP-21 North Wall</b>	Batch ID: <b>47753</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/27/2019</b>	SeqNo: <b>2159667</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9823	0	109	76	123			
Toluene	1.1	0.049	0.9823	0.006944	112	80.3	127			
Ethylbenzene	1.1	0.049	0.9823	0	115	80.2	131			
Xylenes, Total	3.4	0.098	2.947	0.01359	116	78	133			
Surr: 4-Bromofluorobenzene	0.93		0.9823		94.3	80	120			

Sample ID: <b>1909E49-021AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SP-21 North Wall</b>	Batch ID: <b>47753</b>	RunNo: <b>63284</b>								
Prep Date: <b>9/26/2019</b>	Analysis Date: <b>9/28/2019</b>	SeqNo: <b>2159668</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9843	0	110	76	123	0.939	20	
Toluene	1.1	0.049	0.9843	0.006944	113	80.3	127	1.17	20	
Ethylbenzene	1.1	0.049	0.9843	0	116	80.2	131	1.07	20	
Xylenes, Total	3.5	0.098	2.953	0.01359	117	78	133	1.24	20	
Surr: 4-Bromofluorobenzene	0.92		0.9843		93.5	80	120	0	0	

**Qualifiers:**

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



Hall Environmental Analysis Laboratory
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: 1909E49

RcptNo: 1

Received By: 9/25/2019 8:45:00 AM

Completed By: Desiree Dominguez 9/25/2019 3:09:35 PM

Reviewed By: IO 9/25/19

Handwritten initials

Chain of Custody

1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]

4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [ ] NA [ ]

5. Sample(s) in proper container(s)? Yes [checked] No [ ]

6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]

7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]

8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]

9. VOA vials have zero headspace? Yes [ ] No [ ] No VOA Vials [checked]

10. Were any sample containers received broken? Yes [ ] No [checked]

# of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: DAD 9/26/19

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No [ ]

12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]

13. Is it clear what analyses were requested? Yes [checked] No [ ]

14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No [ ]

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1 and 2.

### Chain-of-Custody Record

Client: Safety + Environmental Solution  
 Mailing Address: 703 G. Clinton  
Albuquerque, NM 88240  
 Phone #: 575-397-0510  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  Other  
 NELAC  Other  
 EDD (Type) \_\_\_\_\_

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
09/23	0830	S	SP-1 Bottom 1.5A	1	None	1909E49
	0850	S	SP-2 Bottom 1.5A	1		-001
	0915	S	SP-3 Bottom 1.5A	1		-002
	0935	S	SP-4 East WWH	1		-003
	0950	S	SP-5 North WWH	1		-004
	1015	S	SP-6 South WWH	1		-005
	1035	S	SP-7 North WWH	1		-006
	1100	S	SP-8 South WWH	1		-007
	1125	S	SP-9 North WWH	1		-008
	1140	S	SP-10 South WWH	1		-009
	1300	S	SP-11 Bottom 1FA	1		-010
	1345	S	SP-12 Bottom 1FA	1		-011
						-012

Date: 09/24 Time: 1500 Relinquished by: Jon Juncos  
 Date: 9/24/19 Time: 1910 Relinquished by: [Signature]

Turn-Around Time: 5 Day Rush  
 Standard  Rush  
 Project Name: Energy Quest  
Santa Ana Battery  
 Project #: ENV-19-001

Project Manager: Allan Rob  
 Sampler: Jon Juncos  
 On Ice:  Yes  No  
 # of Coolers: 2  $P_1 + P_2 = 0.2$   
 Cooler Temp (including CF): 1.0 + 0.1 = 1.1

TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, 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)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					

Received by: [Signature] Date: 9/24/19 Time: 1600  
 Received by: [Signature] Date: 9/25/19 Time: 8:45

**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)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, 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)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							

Remarks: Chloride

### Chain-of-Custody Record

Client: Energy + Environmental Solutions  
 Mailing Address: 703 E. Clinton  
Albino New 8826  
 Phone #: 575-397-0510  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  AZ Compliance  Other \_\_\_\_\_  
 NELAC  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: 5 Day Rush  
 Standard  Rush  
 Project Name: Energy Over  
Sutro Bldg  
 Project #: ENQ-19-001

Project Manager: Allen Bob  
 Sampler: Sonny  
 On Ice:  Yes  No CF  
 # of Coolers: 2 0.1+0.1=0.2  
 Cooler Temp (including CF): 1.0+0.1=1.1

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9/24	1345	S	SP-13 Boston (F)	1	Dist.	-013
	1405	S	SP-14 North Wall	1		-014
	1430	S	SP-15 South Wall	1		-015
9/24	1445	S	SP-16 North Wall	1		-016
	1505	S	SP-17 South Wall	1		-017
9/24	0820	S	SP-18 Boston (F)	1		-018
	0845	S	SP-19 Boston (F)	1		-019
9/24	0920	S	SP-20 Boston (F)	1		-020
	0940	S	SP-21 North Wall	1		-021
9/24	1010	S	SP-22 South Wall	1		-022
		S	SP-23 North Wall	1		-023

Date: 9/24/19 Time: 1502 Relinquished by: Sonny  
 Date: 9/25/19 Time: 1940 Relinquished by: [Signature]

### Analysis Request

<input checked="" type="checkbox"/>	BTEX / MTBE / TMBs (8021)
<input checked="" type="checkbox"/>	TPH:8015D(GRO / DRO / MRO)
<input type="checkbox"/>	8081 Pesticides/8082 PCBs
<input type="checkbox"/>	EDB (Method 504.1)
<input type="checkbox"/>	PAHs by 8310 or 8270SIMS
<input type="checkbox"/>	RCRA 8 Metals
<input type="checkbox"/>	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>
<input type="checkbox"/>	8260 (VOA)
<input type="checkbox"/>	8270 (Semi-VOA)
<input type="checkbox"/>	Total Coliform (Present/Absent)

Chlorides

Received by: [Signature] Date: 9/24/19 Time: 1602  
 Received by: [Signature] Date: 9/25/19 Time: 8:45

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 notated on the analytical report.



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)

November 14, 2019

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

RE: Energy Quest Sahara Battery

OrderNo.: 1911342

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/8/2019 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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **1911342**

Date Reported: **11/14/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-24 West Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 11/6/2019 11:20:00 AM

**Lab ID:** 1911342-001

**Matrix:** SOIL

**Received Date:** 11/8/2019 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	150	61		mg/Kg	20	11/13/2019 12:17:06 PM	48762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2019 10:27:36 AM	48677
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/11/2019 10:27:36 AM	48677
Surr: DNOP	97.5	70-130		%Rec	1	11/11/2019 10:27:36 AM	48677
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2019 7:00:12 PM	48675
Surr: BFB	93.6	77.4-118		%Rec	1	11/11/2019 7:00:12 PM	48675
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/11/2019 7:00:12 PM	48675
Toluene	ND	0.049		mg/Kg	1	11/11/2019 7:00:12 PM	48675
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2019 7:00:12 PM	48675
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2019 7:00:12 PM	48675
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/11/2019 7:00:12 PM	48675

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		

**Analytical Report**

Lab Order **1911342**

Date Reported: **11/14/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-25 East Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 11/6/2019 11:25:00 AM

**Lab ID:** 1911342-002

**Matrix:** SOIL

**Received Date:** 11/8/2019 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	120	60		mg/Kg	20	11/13/2019 12:29:27 PM	48762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2019 10:36:41 AM	48677
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/11/2019 10:36:41 AM	48677
Surr: DNOP	102	70-130		%Rec	1	11/11/2019 10:36:41 AM	48677
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2019 8:10:19 PM	48675
Surr: BFB	93.2	77.4-118		%Rec	1	11/11/2019 8:10:19 PM	48675
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	11/11/2019 8:10:19 PM	48675
Toluene	ND	0.049		mg/Kg	1	11/11/2019 8:10:19 PM	48675
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2019 8:10:19 PM	48675
Xylenes, Total	ND	0.099		mg/Kg	1	11/11/2019 8:10:19 PM	48675
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/11/2019 8:10:19 PM	48675

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		

**Analytical Report**

Lab Order **1911342**

Date Reported: **11/14/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-26 Bottom 1Ft

**Project:** Energy Quest Sahara Battery

**Collection Date:** 11/6/2019 11:40:00 AM

**Lab ID:** 1911342-003

**Matrix:** SOIL

**Received Date:** 11/8/2019 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1300	60		mg/Kg	20	11/13/2019 12:41:47 PM	48762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/11/2019 10:45:48 AM	48677
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2019 10:45:48 AM	48677
Surr: DNOP	93.3	70-130		%Rec	1	11/11/2019 10:45:48 AM	48677
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/11/2019 8:33:42 PM	48675
Surr: BFB	90.6	77.4-118		%Rec	1	11/11/2019 8:33:42 PM	48675
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	11/11/2019 8:33:42 PM	48675
Toluene	ND	0.050		mg/Kg	1	11/11/2019 8:33:42 PM	48675
Ethylbenzene	ND	0.050		mg/Kg	1	11/11/2019 8:33:42 PM	48675
Xylenes, Total	ND	0.099		mg/Kg	1	11/11/2019 8:33:42 PM	48675
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	11/11/2019 8:33:42 PM	48675

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		

**Analytical Report**

Lab Order **1911342**

Date Reported: **11/14/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-27 West Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 11/6/2019 11:55:00 AM

**Lab ID:** 1911342-004

**Matrix:** SOIL

**Received Date:** 11/8/2019 9:18:00 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	11/13/2019 12:54:08 PM	48762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/11/2019 10:54:56 AM	48677
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/11/2019 10:54:56 AM	48677
Surr: DNOP	105	70-130		%Rec	1	11/11/2019 10:54:56 AM	48677
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/11/2019 8:57:01 PM	48675
Surr: BFB	96.4	77.4-118		%Rec	1	11/11/2019 8:57:01 PM	48675
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/11/2019 8:57:01 PM	48675
Toluene	ND	0.049		mg/Kg	1	11/11/2019 8:57:01 PM	48675
Ethylbenzene	ND	0.049		mg/Kg	1	11/11/2019 8:57:01 PM	48675
Xylenes, Total	ND	0.098		mg/Kg	1	11/11/2019 8:57:01 PM	48675
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	11/11/2019 8:57:01 PM	48675

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		

**Analytical Report**

Lab Order **1911342**

Date Reported: **11/14/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-28 South Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 11/6/2019 12:15:00 PM

**Lab ID:** 1911342-005

**Matrix:** SOIL

**Received Date:** 11/8/2019 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	230	60		mg/Kg	20	11/13/2019 1:06:29 PM	48762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/11/2019 11:04:03 AM	48677
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/11/2019 11:04:03 AM	48677
Surr: DNOP	92.0	70-130		%Rec	1	11/11/2019 11:04:03 AM	48677
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/11/2019 10:30:43 PM	48675
Surr: BFB	89.8	77.4-118		%Rec	1	11/11/2019 10:30:43 PM	48675
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	11/11/2019 10:30:43 PM	48675
Toluene	ND	0.050		mg/Kg	1	11/11/2019 10:30:43 PM	48675
Ethylbenzene	ND	0.050		mg/Kg	1	11/11/2019 10:30:43 PM	48675
Xylenes, Total	ND	0.099		mg/Kg	1	11/11/2019 10:30:43 PM	48675
Surr: 4-Bromofluorobenzene	96.8	80-120		%Rec	1	11/11/2019 10:30:43 PM	48675

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		

**Analytical Report**

Lab Order **1911342**

Date Reported: **11/14/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-29 Bottom 1Ft

**Project:** Energy Quest Sahara Battery

**Collection Date:** 11/6/2019 12:35:00 PM

**Lab ID:** 1911342-006

**Matrix:** SOIL

**Received Date:** 11/8/2019 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1300	61		mg/Kg	20	11/13/2019 1:18:50 PM	48762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/11/2019 11:13:12 AM	48677
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/11/2019 11:13:12 AM	48677
Surr: DNOP	95.4	70-130		%Rec	1	11/11/2019 11:13:12 AM	48677
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/11/2019 10:54:06 PM	48675
Surr: BFB	89.2	77.4-118		%Rec	1	11/11/2019 10:54:06 PM	48675
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	11/11/2019 10:54:06 PM	48675
Toluene	ND	0.050		mg/Kg	1	11/11/2019 10:54:06 PM	48675
Ethylbenzene	ND	0.050		mg/Kg	1	11/11/2019 10:54:06 PM	48675
Xylenes, Total	ND	0.099		mg/Kg	1	11/11/2019 10:54:06 PM	48675
Surr: 4-Bromofluorobenzene	95.8	80-120		%Rec	1	11/11/2019 10:54:06 PM	48675

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		

**Analytical Report**

Lab Order **1911342**

Date Reported: **11/14/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-30 North wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 11/6/2019 12:45:00 PM

**Lab ID:** 1911342-007

**Matrix:** SOIL

**Received Date:** 11/8/2019 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	140	59		mg/Kg	20	11/13/2019 1:55:52 PM	48762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/11/2019 11:22:20 AM	48677
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/11/2019 11:22:20 AM	48677
Surr: DNOP	82.8	70-130		%Rec	1	11/11/2019 11:22:20 AM	48677
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/11/2019 11:17:27 PM	48675
Surr: BFB	87.0	77.4-118		%Rec	1	11/11/2019 11:17:27 PM	48675
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/11/2019 11:17:27 PM	48675
Toluene	ND	0.048		mg/Kg	1	11/11/2019 11:17:27 PM	48675
Ethylbenzene	ND	0.048		mg/Kg	1	11/11/2019 11:17:27 PM	48675
Xylenes, Total	ND	0.097		mg/Kg	1	11/11/2019 11:17:27 PM	48675
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	11/11/2019 11:17:27 PM	48675

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		

**Analytical Report**

Lab Order **1911342**

Date Reported: **11/14/2019**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-31 East Wall

**Project:** Energy Quest Sahara Battery

**Collection Date:** 11/6/2019 12:55:00 PM

**Lab ID:** 1911342-008

**Matrix:** SOIL

**Received Date:** 11/8/2019 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	220	60		mg/Kg	20	11/13/2019 2:08:13 PM	48762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/11/2019 11:31:30 AM	48677
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/11/2019 11:31:30 AM	48677
Surr: DNOP	87.5	70-130		%Rec	1	11/11/2019 11:31:30 AM	48677
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/11/2019 11:40:48 PM	48675
Surr: BFB	89.3	77.4-118		%Rec	1	11/11/2019 11:40:48 PM	48675
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/11/2019 11:40:48 PM	48675
Toluene	ND	0.047		mg/Kg	1	11/11/2019 11:40:48 PM	48675
Ethylbenzene	ND	0.047		mg/Kg	1	11/11/2019 11:40:48 PM	48675
Xylenes, Total	ND	0.095		mg/Kg	1	11/11/2019 11:40:48 PM	48675
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	11/11/2019 11:40:48 PM	48675

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#: 1911342

14-Nov-19

**Client:** Safety & Environmental Solutions

**Project:** Energy Quest Sahara Battery

Sample ID: <b>MB-48762</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48762</b>	RunNo: <b>64469</b>								
Prep Date: <b>11/13/2019</b>	Analysis Date: <b>11/13/2019</b>	SeqNo: <b>2207935</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-48762</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48762</b>	RunNo: <b>64469</b>								
Prep Date: <b>11/13/2019</b>	Analysis Date: <b>11/13/2019</b>	SeqNo: <b>2207936</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	95.1	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#: 1911342

14-Nov-19

**Client:** Safety & Environmental Solutions

**Project:** Energy Quest Sahara Battery

Sample ID: <b>LCS-48677</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48677</b>	RunNo: <b>64373</b>								
Prep Date: <b>11/8/2019</b>	Analysis Date: <b>11/11/2019</b>	SeqNo: <b>2203564</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.2	63.9	124			
Surr: DNOP	4.8		5.000		96.4	70	130			

Sample ID: <b>MB-48677</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48677</b>	RunNo: <b>64380</b>								
Prep Date: <b>11/8/2019</b>	Analysis Date: <b>11/11/2019</b>	SeqNo: <b>2203857</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	12		10.00		116	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#: 1911342

14-Nov-19

**Client:** Safety & Environmental Solutions

**Project:** Energy Quest Sahara Battery

Sample ID: <b>MB-48675</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48675</b>	RunNo: <b>64386</b>								
Prep Date: <b>11/8/2019</b>	Analysis Date: <b>11/11/2019</b>	SeqNo: <b>2204164</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	960		1000		96.2	77.4	118			

Sample ID: <b>LCS-48675</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48675</b>	RunNo: <b>64386</b>								
Prep Date: <b>11/8/2019</b>	Analysis Date: <b>11/11/2019</b>	SeqNo: <b>2204165</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.7	80	120			
Surr: BFB	1100		1000		107	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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911342

14-Nov-19

**Client:** Safety & Environmental Solutions

**Project:** Energy Quest Sahara Battery

Sample ID: <b>MB-48675</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48675</b>	RunNo: <b>64386</b>								
Prep Date: <b>11/8/2019</b>	Analysis Date: <b>11/11/2019</b>	SeqNo: <b>2204196</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: <b>LCS-48675</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48675</b>	RunNo: <b>64386</b>								
Prep Date: <b>11/8/2019</b>	Analysis Date: <b>11/11/2019</b>	SeqNo: <b>2204197</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.2	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: <b>1911342-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SP-24 West Wall</b>	Batch ID: <b>48675</b>	RunNo: <b>64386</b>								
Prep Date: <b>11/8/2019</b>	Analysis Date: <b>11/11/2019</b>	SeqNo: <b>2204199</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9785	0	93.3	76	123			
Toluene	0.94	0.049	0.9785	0	96.2	80.3	127			
Ethylbenzene	0.95	0.049	0.9785	0	97.0	80.2	131			
Xylenes, Total	2.8	0.098	2.935	0	96.8	78	133			
Surr: 4-Bromofluorobenzene	0.97		0.9785		99.1	80	120			

Sample ID: <b>1911342-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SP-24 West Wall</b>	Batch ID: <b>48675</b>	RunNo: <b>64386</b>								
Prep Date: <b>11/8/2019</b>	Analysis Date: <b>11/11/2019</b>	SeqNo: <b>2204200</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9921	0	96.8	76	123	5.03	20	
Toluene	1.0	0.050	0.9921	0	101	80.3	127	5.84	20	
Ethylbenzene	1.0	0.050	0.9921	0	101	80.2	131	5.24	20	
Xylenes, Total	3.0	0.099	2.976	0	101	78	133	5.90	20	
Surr: 4-Bromofluorobenzene	1.0		0.9921		103	80	120	0	0	

**Qualifiers:**

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



Hall Environmental Analysis Laboratory
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: 1911342 RcptNo: 1

Received By: Yazmine Garduno 11/8/2019 9:18:00 AM
Completed By: Erin Melendrez 11/8/2019 10:29:52 AM
Reviewed By: YG 11/8/19

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [ ] NA [ ]
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [ ] NA [ ]
5. Sample(s) in proper container(s)? Yes [checked] No [ ]
6. Sufficient sample volume for indicated test(s)? Yes [checked] No [ ]
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No [ ]
8. Was preservative added to bottles? Yes [ ] No [checked] NA [ ]
9. VOA vials have zero headspace? Yes [ ] No [ ] No VOA Vials [checked]
10. Were any sample containers received broken? Yes [ ] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No [ ]
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No [ ]
13. Is it clear what analyses were requested? Yes [checked] No [ ]
14. Were all holding times able to be met? Yes [checked] No [ ]

# of preserved bottles checked for pH: (< or >12 unless noted)
Adjusted?
Checked by: [signature] 11/8/19

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: [ ] Date: [ ]
By Whom: [ ] Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person [ ]
Regarding: [ ]
Client Instructions: [ ]

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 4.5, Good, Yes, [ ], [ ], [ ]

### Chain-of-Custody Record

Client: Safety & Environmental Solutions  
 Mailing Address: 703 E. Clinton  
Chubb's NW 88240  
 Phone #: 575-397-0570  
 email or Fax#:

QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/06	1120	S	SP-24 WEST WYALL	1	Ice	1911312
	1125	S	SP-25 EAST WYALL	1	Next	-001
	1140	S	SP-26 BOTTOM LF	1		-002
	1155	S	SP-27 WEST WYALL	1		-003
	1215	S	SP-28 SOUTH WYALL	1		-004
	1235	S	SP-29 BOTTOM LF	1		-005
	1245	S	SP-30 NORTH WYALL	1		-006
11/06	1255	S	SP-31 EAST WYALL	1		-007
						-008

# of Coolers: 1  
 Cooler Temp (including CF): 4.6 - 0.3 = 4.5

Container Type and #

Preservative Type

HEAL No.

Turn-Around Time:  
 Standard  Rush  
 Project Name: ENERGY QUEST

Project #: SAHARA BATTERY

Project #: ENQ-19-001

Project Manager:  
Allen, Bob

Sampler: Sara Jerry  
 On Ice:  Yes  No

Analysis Request

BTEX / MTBE / TMS (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO<sub>2</sub>, NO<sub>3</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

X Chlorides

Received by: [Signature] Date: 11/6/19 Time: 1830  
 Relinquished by: [Signature] Date: 11/8/19 Time: 0918

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 notated on the analytical report.

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
 Action 4286

**CONDITIONS**

Operator: Safety & Environmental Solutions, Inc. PO Box 1613 Hobbs, NM 88240	OGRID: 329088
	Action Number: 4286
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
bbillings	Approved as per previously approved Work Plan	9/7/2021