

From: [Yu, Olivia, EMNRD](#)
To: [Aguilar, Raymond A](#); [Hernandez, Christina, EMNRD](#)
Cc: [Dittrich, John W](#)
Subject: RE: Fwd: Report for WO 591178, Project Name: South Hobbs Unit CTB
Date: Tuesday, August 7, 2018 10:23:00 AM

Good morning Tony:

Thank you for following up on 1RP-5017. Where was SP-1 taken? Please include a scaled map with the sample locations marked.

Please be advised that the surface sample is above permissible level of 100 mg/kg TPH extended. Depth to groundwater data from USGS, NMOSE, and NMOCD groundwater monitoring wells, all indicate less than 50 ft. bgs. The area represented by SP-1 will need to have impacted soil removed and confirmation samples taken for TPH extended analyses.

Thanks,
Olivia

From: Aguilar, Raymond A <Raymond_Aguilar@oxy.com>
Sent: Monday, August 6, 2018 10:44 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>
Cc: Aguilar, Raymond A <Raymond_Aguilar@oxy.com>; Dittrich, John W <Wade_Dittrich@oxy.com>
Subject: FW: Fwd: Report for WO 591178, Project Name: South Hobbs Unit CTB

Olivia,
Here is the test results from the over spray incident at the SHUCTB as per your request. Let me or Wade know if you have any questions, thanks
Tony

From: Dittrich, John W
Sent: Friday, August 3, 2018 9:16 AM
To: Aguilar, Raymond A <Raymond_Aguilar@oxy.com>
Subject: Fwd: [EXTERNAL] Fwd: Report for WO 591178, Project Name: South Hobbs Unit CTB

FYI

Sent from my iPhone

Begin forwarded message:

From: Ben Arguijo <ben@trinityoilfieldservices.com>
Date: August 3, 2018 at 9:14:12 AM MDT
To: "Dittrich, John W" <Wade_Dittrich@oxy.com>
Subject: [EXTERNAL] Fwd: Report for WO 591178, Project Name: South Hobbs Unit CTB

Ben J. Arguijo
Environmental Project Manager
Trinity Oilfield Services & Rentals, LLC
(575)390-7208

Begin forwarded message:

From: holly.taylor@xenco.com
Date: July 12, 2018 at 8:28:56 AM MDT
To: Ben Arguijo <ben@trinityoilfieldservices.com>, Wade Dittrich
<Wade_Dittrich@oxy.com>
Subject: Report for WO 591178, Project Name: South Hobbs
Unit CTB
Reply-To: Holly Taylor <holly.taylor@xenco.com>

Please find attached report for WO 591178, Project Name: South
Hobbs Unit CTB.

We thank you for selecting Xenco Laboratories to serve your
analytical needs. If you have any questions or concerns please
contact:

Holly Taylor
Project Manager
Xenco Laboratories
Email: holly.taylor@xenco.com
Phone:

Please take a minute to rate your experience with Xenco Laboratories
at <http://www.xenco.com/environmental-survey.php>

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Certificate of Analysis Summary 591178

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: South Hobbs Unit CTB



Project Id:

Contact: Ben Arguijo

Project Location: NM

Date Received in Lab: Tue Jul-03-18 11:00 am

Report Date: 12-JUL-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	591178-001	591178-002	591178-003			
	Field Id:	SP-1	SP-2	SP-3			
	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Jun-27-18 15:45	Jun-27-18 16:15	Jun-27-18 16:18			
BTEX by EPA 8021B	Extracted:	Jul-08-18 08:30	Jul-09-18 15:00	Jul-09-18 10:30			
	Analyzed:	Jul-08-18 18:53	Jul-09-18 21:59	Jul-09-18 13:11			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00198 0.00198	<0.00202 0.00202	<0.00199 0.00199			
Toluene		<0.00198 0.00198	<0.00202 0.00202	<0.00199 0.00199			
Ethylbenzene		<0.00198 0.00198	<0.00202 0.00202	<0.00199 0.00199			
m,p-Xylenes		<0.00397 0.00397	<0.00404 0.00404	<0.00398 0.00398			
o-Xylene		<0.00198 0.00198	<0.00202 0.00202	<0.00199 0.00199			
Total Xylenes		<0.00198 0.00198	<0.00202 0.00202	<0.00199 0.00199			
Total BTEX		<0.00198 0.00198	<0.00202 0.00202	<0.00199 0.00199			
Chloride by EPA 300	Extracted:	Jul-10-18 15:45	Jul-10-18 15:45	Jul-10-18 15:45			
	Analyzed:	Jul-10-18 18:26	Jul-10-18 18:32	Jul-10-18 18:37			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		33.6 4.99	464 50.0	42.0 4.98			
TPH By SW8015 Mod	Extracted:	Jul-09-18 07:00	Jul-09-18 07:00	Jul-09-18 07:00			
	Analyzed:	Jul-10-18 02:52	Jul-09-18 11:24	Jul-09-18 11:44			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		19.2 15.0	<14.9 14.9	17.3 15.0			
Diesel Range Organics (DRO)		176 15.0	<14.9 14.9	<15.0 15.0			
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<14.9 14.9	<15.0 15.0			
Total TPH		195 15.0	<14.9 14.9	17.3 15.0			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 591178

for

Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

South Hobbs Unit CTB

12-JUL-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



12-JUL-18

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **591178**
South Hobbs Unit CTB
Project Address: NM

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 591178. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 591178 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 591178



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

South Hobbs Unit CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1	S	06-27-18 15:45		591178-001
SP-2	S	06-27-18 16:15		591178-002
SP-3	S	06-27-18 16:18		591178-003



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *South Hobbs Unit CTB*

Project ID:
Work Order Number(s): 591178

Report Date: 12-JUL-18
Date Received: 07/03/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3055801 BTEX by EPA 8021B

Lab Sample ID 591178-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Toluene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 591178-001.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3055848 BTEX by EPA 8021B

Lab Sample ID 591178-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 591178-003.

The Laboratory Control Sample for o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3055856 BTEX by EPA 8021B

Lab Sample ID 591178-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 591178-002.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 591178



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM South Hobbs Unit CTB

Sample Id: **SP-1**
Lab Sample Id: 591178-001

Matrix: Soil
Date Collected: 06.27.18 15.45

Date Received: 07.03.18 11.00

Analytical Method: Chloride by EPA 300
Tech: OJS
Analyst: SCM
Seq Number: 3056071

Date Prep: 07.10.18 15.45

Prep Method: E300P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.6	4.99	mg/kg	07.10.18 18.26		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3055934

Date Prep: 07.09.18 07.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	19.2	15.0	mg/kg	07.10.18 02.52		1
Diesel Range Organics (DRO)	C10C28DRO	176	15.0	mg/kg	07.10.18 02.52		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.10.18 02.52	U	1
Total TPH	PHC635	195	15.0	mg/kg	07.10.18 02.52		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	07.10.18 02.52		
o-Terphenyl	84-15-1	97	%	70-135	07.10.18 02.52		



Certificate of Analytical Results 591178



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM South Hobbs Unit CTB

Sample Id: **SP-1**
Lab Sample Id: 591178-001

Matrix: Soil
Date Collected: 06.27.18 15.45

Date Received: 07.03.18 11.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.08.18 08.30

Basis: Wet Weight

Seq Number: 3055801

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.08.18 18.53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.08.18 18.53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.08.18 18.53	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	07.08.18 18.53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.08.18 18.53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.08.18 18.53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.08.18 18.53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.08.18 18.53		
4-Bromofluorobenzene	460-00-4	112	%	70-130	07.08.18 18.53		



Certificate of Analytical Results 591178



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM South Hobbs Unit CTB

Sample Id: **SP-2** Matrix: Soil Date Received: 07.03.18 11.00
Lab Sample Id: 591178-002 Date Collected: 06.27.18 16.15
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: OJS % Moisture:
Analyst: SCM Date Prep: 07.10.18 15.45 Basis: Wet Weight
Seq Number: 3056071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	464	50.0	mg/kg	07.10.18 18.32		10

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 07.09.18 07.00 Basis: Wet Weight
Seq Number: 3055934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	07.09.18 11.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	07.09.18 11.24	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	07.09.18 11.24	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	07.09.18 11.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	07.09.18 11.24	
o-Terphenyl	84-15-1	95	%	70-135	07.09.18 11.24	



Certificate of Analytical Results 591178



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM South Hobbs Unit CTB

Sample Id: **SP-2**
Lab Sample Id: 591178-002

Matrix: Soil
Date Collected: 06.27.18 16.15

Date Received: 07.03.18 11.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.09.18 15.00

Basis: Wet Weight

Seq Number: 3055856

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.09.18 21.59	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.09.18 21.59	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.09.18 21.59	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	07.09.18 21.59	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.09.18 21.59	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.09.18 21.59	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.09.18 21.59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	07.09.18 21.59		
4-Bromofluorobenzene	460-00-4	74	%	70-130	07.09.18 21.59		



Certificate of Analytical Results 591178



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM South Hobbs Unit CTB

Sample Id: **SP-3** Matrix: Soil Date Received: 07.03.18 11.00
Lab Sample Id: 591178-003 Date Collected: 06.27.18 16.18
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: OJS % Moisture:
Analyst: SCM Date Prep: 07.10.18 15.45 Basis: Wet Weight
Seq Number: 3056071

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.0	4.98	mg/kg	07.10.18 18.37		1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 07.09.18 07.00 Basis: Wet Weight
Seq Number: 3055934

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	17.3	15.0	mg/kg	07.09.18 11.44		1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.09.18 11.44	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	07.09.18 11.44	U	1
Total TPH	PHC635	17.3	15.0	mg/kg	07.09.18 11.44		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	07.09.18 11.44	
o-Terphenyl	84-15-1	92	%	70-135	07.09.18 11.44	



Certificate of Analytical Results 591178



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM South Hobbs Unit CTB

Sample Id: **SP-3**
Lab Sample Id: 591178-003

Matrix: Soil
Date Collected: 06.27.18 16.18

Date Received: 07.03.18 11.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 07.09.18 10.30

Basis: Wet Weight

Seq Number: 3055848

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.09.18 13.11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.09.18 13.11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.09.18 13.11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.09.18 13.11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.09.18 13.11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.09.18 13.11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.09.18 13.11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	127	%	70-130	07.09.18 13.11		
4-Bromofluorobenzene	460-00-4	73	%	70-130	07.09.18 13.11		

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 591178

Trinity Oilfield Services & Rentals, LLC South Hobbs Unit CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3056071

MB Sample Id: 7658134-1-BLK

Matrix: Solid

LCS Sample Id: 7658134-1-BKS

Prep Method: E300P

Date Prep: 07.10.18

LCSD Sample Id: 7658134-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.99	250	267	107	267	107	90-110	0	20	mg/kg	07.10.18 17:27	

Analytical Method: Chloride by EPA 300

Seq Number: 3056071

Parent Sample Id: 591177-016

Matrix: Soil

MS Sample Id: 591177-016 S

Prep Method: E300P

Date Prep: 07.10.18

MSD Sample Id: 591177-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.15	250	254	99	255	99	90-110	0	20	mg/kg	07.10.18 17:43	

Analytical Method: Chloride by EPA 300

Seq Number: 3056071

Parent Sample Id: 591230-003

Matrix: Soil

MS Sample Id: 591230-003 S

Prep Method: E300P

Date Prep: 07.10.18

MSD Sample Id: 591230-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	78.0	245	327	102	332	104	90-110	2	20	mg/kg	07.10.18 18:59	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3055934

MB Sample Id: 7658090-1-BLK

Matrix: Solid

LCS Sample Id: 7658090-1-BKS

Prep Method: TX1005P

Date Prep: 07.09.18

LCSD Sample Id: 7658090-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	970	97	961	96	70-135	1	20	mg/kg	07.09.18 08:29	
Diesel Range Organics (DRO)	<15.0	1000	989	99	979	98	70-135	1	20	mg/kg	07.09.18 08:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		127		122		70-135	%	07.09.18 08:29
o-Terphenyl	104		116		112		70-135	%	07.09.18 08:29

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 591178

Trinity Oilfield Services & Rentals, LLC South Hobbs Unit CTB

Analytical Method: TPH By SW8015 Mod

Seq Number: 3055934

Parent Sample Id: 591176-001

Matrix: Soil

MS Sample Id: 591176-001 S

Prep Method: TX1005P

Date Prep: 07.09.18

MSD Sample Id: 591176-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	966	97	963	96	70-135	0	20	mg/kg	07.09.18 09:27	
Diesel Range Organics (DRO)	<15.0	999	985	99	998	100	70-135	1	20	mg/kg	07.09.18 09:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		120		70-135	%	07.09.18 09:27
o-Terphenyl	107		103		70-135	%	07.09.18 09:27

Analytical Method: BTEX by EPA 8021B

Seq Number: 3055801

MB Sample Id: 7658002-1-BLK

Matrix: Solid

LCS Sample Id: 7658002-1-BKS

Prep Method: SW5030B

Date Prep: 07.08.18

LCSD Sample Id: 7658002-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0837	84	0.0829	82	70-130	1	35	mg/kg	07.08.18 17:04	
Toluene	<0.00200	0.100	0.0837	84	0.0837	83	70-130	0	35	mg/kg	07.08.18 17:04	
Ethylbenzene	<0.00200	0.100	0.0839	84	0.0822	81	70-130	2	35	mg/kg	07.08.18 17:04	
m,p-Xylenes	<0.00401	0.200	0.173	87	0.171	85	70-130	1	35	mg/kg	07.08.18 17:04	
o-Xylene	<0.00200	0.100	0.0809	81	0.0847	84	70-130	5	35	mg/kg	07.08.18 17:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	122		90		85		70-130	%	07.08.18 17:04
4-Bromofluorobenzene	112		76		88		70-130	%	07.08.18 17:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3055848

MB Sample Id: 7658020-1-BLK

Matrix: Solid

LCS Sample Id: 7658020-1-BKS

Prep Method: SW5030B

Date Prep: 07.09.18

LCSD Sample Id: 7658020-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.102	101	0.0861	86	70-130	17	35	mg/kg	07.09.18 11:25	
Toluene	<0.00202	0.101	0.115	114	0.0891	89	70-130	25	35	mg/kg	07.09.18 11:25	
Ethylbenzene	<0.00202	0.101	0.108	107	0.0881	88	70-130	20	35	mg/kg	07.09.18 11:25	
m,p-Xylenes	<0.00404	0.202	0.225	111	0.182	91	70-130	21	35	mg/kg	07.09.18 11:25	
o-Xylene	<0.00202	0.101	0.0997	99	0.0843	84	70-130	17	35	mg/kg	07.09.18 11:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		117		83		70-130	%	07.09.18 11:25
4-Bromofluorobenzene	80		89		86		70-130	%	07.09.18 11:25

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Trinity Oilfield Services & Rentals, LLC
South Hobbs Unit CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3055856

MB Sample Id: 7658027-1-BLK

Matrix: Solid

LCS Sample Id: 7658027-1-BKS

Prep Method: SW5030B

Date Prep: 07.09.18

LCSD Sample Id: 7658027-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0927	93	0.102	102	70-130	10	35	mg/kg	07.09.18 20:10	
Toluene	<0.00200	0.0998	0.101	101	0.106	106	70-130	5	35	mg/kg	07.09.18 20:10	
Ethylbenzene	<0.00200	0.0998	0.0928	93	0.103	103	70-130	10	35	mg/kg	07.09.18 20:10	
m,p-Xylenes	<0.00399	0.200	0.199	100	0.214	106	70-130	7	35	mg/kg	07.09.18 20:10	
o-Xylene	<0.00200	0.0998	0.0941	94	0.104	104	70-130	10	35	mg/kg	07.09.18 20:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	83		117		116		70-130	%	07.09.18 20:10
4-Bromofluorobenzene	71		84		96		70-130	%	07.09.18 20:10

Analytical Method: BTEX by EPA 8021B

Seq Number: 3055801

Parent Sample Id: 591178-001

Matrix: Soil

MS Sample Id: 591178-001 S

Prep Method: SW5030B

Date Prep: 07.08.18

MSD Sample Id: 591178-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0959	96	0.0722	71	70-130	28	35	mg/kg	07.08.18 17:40	
Toluene	<0.00200	0.100	0.0759	76	0.0642	64	70-130	17	35	mg/kg	07.08.18 17:40	X
Ethylbenzene	<0.00200	0.100	0.0586	59	0.0451	45	70-130	26	35	mg/kg	07.08.18 17:40	X
m,p-Xylenes	<0.00401	0.200	0.118	59	0.0902	45	70-130	27	35	mg/kg	07.08.18 17:40	X
o-Xylene	<0.00200	0.100	0.0591	59	0.0415	41	70-130	35	35	mg/kg	07.08.18 17:40	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	122		90		70-130	%	07.08.18 17:40
4-Bromofluorobenzene	88		77		70-130	%	07.08.18 17:40

Analytical Method: BTEX by EPA 8021B

Seq Number: 3055848

Parent Sample Id: 591178-003

Matrix: Soil

MS Sample Id: 591178-003 S

Prep Method: SW5030B

Date Prep: 07.09.18

MSD Sample Id: 591178-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0821	82	0.0874	87	70-130	6	35	mg/kg	07.09.18 12:01	
Toluene	<0.00201	0.100	0.0789	79	0.0826	82	70-130	5	35	mg/kg	07.09.18 12:01	
Ethylbenzene	<0.00201	0.100	0.0701	70	0.0703	70	70-130	0	35	mg/kg	07.09.18 12:01	
m,p-Xylenes	<0.00402	0.201	0.141	70	0.146	73	70-130	3	35	mg/kg	07.09.18 12:01	
o-Xylene	<0.00201	0.100	0.0670	67	0.0652	65	70-130	3	35	mg/kg	07.09.18 12:01	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	117		106		70-130	%	07.09.18 12:01
4-Bromofluorobenzene	105		104		70-130	%	07.09.18 12:01

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference $[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$ LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
South Hobbs Unit CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3055856

Parent Sample Id: 591178-002

Matrix: Soil

MS Sample Id: 591178-002 S

Prep Method: SW5030B

Date Prep: 07.09.18

MSD Sample Id: 591178-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0805	81	0.0774	77	70-130	4	35	mg/kg	07.09.18 20:46	
Toluene	<0.00200	0.100	0.0771	77	0.0742	73	70-130	4	35	mg/kg	07.09.18 20:46	
Ethylbenzene	<0.00200	0.100	0.0640	64	0.0644	64	70-130	1	35	mg/kg	07.09.18 20:46	X
m,p-Xylenes	<0.00401	0.200	0.126	63	0.131	65	70-130	4	35	mg/kg	07.09.18 20:46	X
o-Xylene	<0.00200	0.100	0.0635	64	0.0617	61	70-130	3	35	mg/kg	07.09.18 20:46	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	124		88		70-130	%	07.09.18 20:46
4-Bromofluorobenzene	101		95		70-130	%	07.09.18 20:46

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West 120 East Odessa, TX 79765 (432)563-1800

CHAIN OF CUSTODY RECORD

Page 1 of 1

LAB W.O. #:

Field billable Hrs.:

TAT Work Days = D Need results by: Time:

Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other

ANALYSES REQUESTED

Company: Trinity Oilfield Services & Rentals, LLC Phone: (575)390-7208
Address: P.O. Box 2587 Fax:
City: Hobbs State: NM Zip: 88241
PM/Attn: Ben J. Arguilo Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID: South Hobbs Unit CTB PO#:
Invoice To: Oxy - Wade Dittrich (575)390-2828 Quote #:

Sampler Name: Circle One Event: Daily Weekly Monthly
Tristan Payne Quarterly Semi-Annual Annual N/A

Sample # Sample ID Collect Date Collect Time Matrix Code Field Filtered Integrity OK (Y/N) Total # of Containers

Example Volatiles by 8260

TPH 8015M BTEX Chloride

Hold Sample (CALL) Run PAH on Highest TPH Only if

Matrix Type Codes
GW Ground Water S Soil/Sediment/Solid
WW Waste Water W Wipe
DW Drinking Water A Air
SW Surface Water O Oil
OW Ocean/Sea Water T Tissue
PL Product-Liquid U Urine
PS Product-Solid B Blood
SL Sludge
Other

REMARKS

Reg Program / Clean-up Std	STATE for Cents & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C	Lab Use Only	YES NO N/A
CTIS TRRP DW NPDES LPST DryCln	FL TX GA NC SC NJ PA OK	1 2 3 4 CLP AFCEE QAPP	ADAPT SEDD ERPIMS	Match Incomplete Absent Under	1-2 228 3 0.04		
Other:	LA AL NM Other:	NELAC DOD-ELAP Other:	XLS Other:				
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	Brilliant	7/21/18	14:20	Brilliant	M.S.	7/21/18	2:17
2	Brilliant	M.S.	7/21/18	2:23			
3							
4							
5							
6							
7							
8							
9							
0							

Container Type Codes
VA Vial Amber ES Encore Sampler
VC Vial Clear TS TerraCore Sampler
VP Vial Pre-preserved AC Air Canister
GA Glass Amber TB Tedlar Bag
GC Glass Clear ZB Zip Lock Bag
PA Plastic Amber PC Plastic Clear
Other

Preservative Type Codes

A. None E. HCL I. Ice
B. HNO₃ F. MeOH J. MeAA
C. H₂SO₄ G. Na₂S₂O₃ K. ZnAc₂/NaOH
D. NaOH H. NaHSO₄ L. Ascic Acid/NaOH
O.

Matrix Type Codes

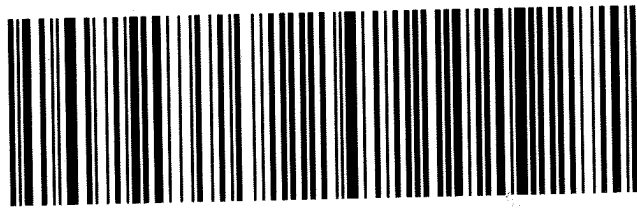
GW Ground Water S Soil/Sediment/Solid
WW Waste Water W Wipe
DW Drinking Water A Air
SW Surface Water O Oil
OW Ocean/Sea Water T Tissue
PL Product-Liquid U Urine
PS Product-Solid B Blood
SL Sludge
Other

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.
Revision Date: Nov 12, 2009

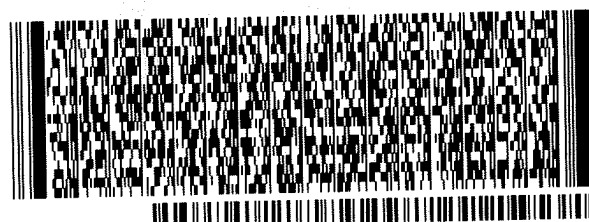
Part # 156148-434 RRD 09/16



41 MAF

TX-US LBB
79701

TRK# 0201 6606 3917 2434
TUE - 03 JUL 10:30A
PRIORITY OVERNIGHT



J171016102081LV

PO: INV: (432) 563-1800 DEPT: REF:

MIDLAND TX 79701

TO XENCO LABORATORIES
1211 W FLORIDA AVE

546C2/0532/53C1

ORIGIN ID: H08A (5/5) 392-/550
MAIL SERVICES ETC, LLC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
SHIP DATE: 02JUL18
ACTWGT: 53.00 LB MAN
CDD: 0909328/CAFE3111
DIMS: 23x17x16 IN
BILL RECIPIENT



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 07/03/2018 11:00:00 AM

Work Order #: 591178

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 07/03/2018

Checklist reviewed by:

Holly Taylor

Date: 07/03/2018