# **REVIEWED**

By Kellie Jones at 2:53 pm, Dec 14, 2015



Robert Grubbs Jr.
Senior Environmental Coordinator

November 10, 2015

Oil Conservation Division District 1 – Hobbs 1625 N. French Drive Hobbs, New Mexico 88240

**APPROVED** 

**CONDITIONAL** 

By Kellie Jones at 2:53 pm, Dec 14, 2015

Re: Bebidas State #1H 30-025-40855 Sec. 16 TagS-RagE

Sec. 16, T23S-R33E Lea County, NM

- 1. Please remove material down to 2 feet at T-2.
- 2. Ensure State Land Office approval.

Ms. Kellie Jones,

COG Operating LLC would like to submit for your consideration the closure documents for the above captioned well. The letter is in response to the C-141 Initial report dated February 27, 2015.

# Background

The release was caused when a switch on the wellhead had failed. The pressure on the packing caused a release of 212bbls of oil and 252bbls of produced water. The majority the release of the fluid contained on the pad with the exception of a 15' X 30' area in the pasture. The situation was remediated by replacing the faulty switch. This area was addressed with an initial scrap and all impacted material hauled to an NMOCD approved facility.

# Groundwater

Based on the information obtained on the NMOSE website (Sec. 16, T23S-R33E), the release area would be classified at a site ranking of Zero with depth to groundwater at approximately >400'.

# Soil Assessment and Analytical Results

Sample points labeled as T-1, T-2, T-3, T-4 and SP-1 on the attached site diagram depict the approximate sample locations within the release area along with a summary of the analytical results. Sample results show TPH and BTEX to be non-detect for all sample points at a depth of 1'. Chloride results show to be elevated in the area of T-2 to a depth of 1'

[Recipient Name] November 10, 2015 Page 2

# Work Plan

Due to the site, ranking being a zero COG Operating LLC proposes the excavation of the following sample area:

T-2 - Excavate to a depth of 1'

'and haul for disposal.

COG Operating LLC proposes that no further excavation be required due to chloride levels left in place being within tolerable levels for future reclamation of the location and depth to ground water at greater than 100'.

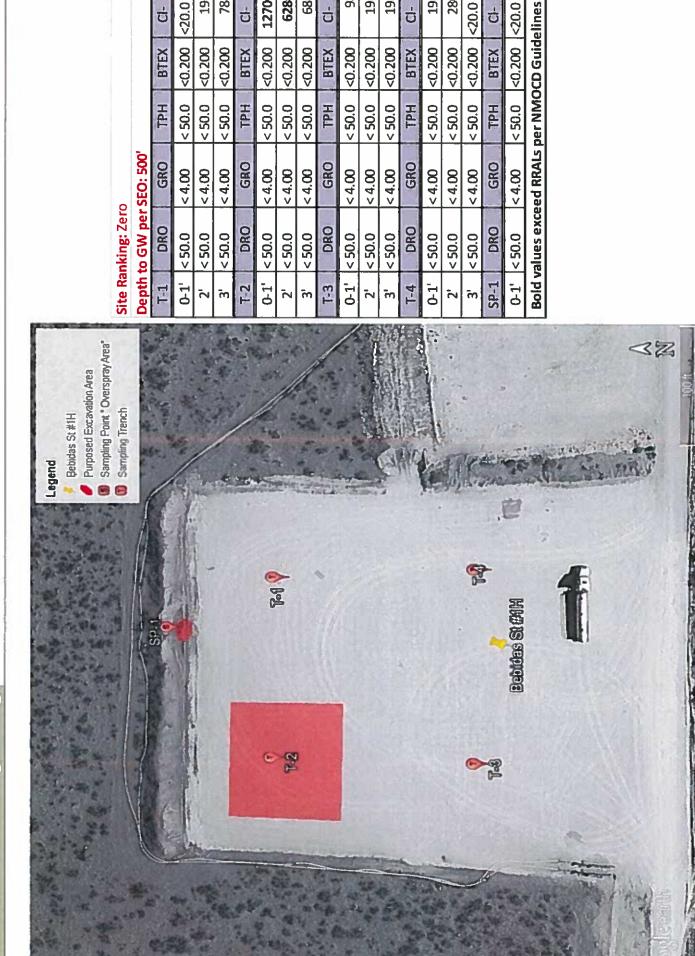
If there are no objections or further stipulations, COG Operating LLC would like to request closure of the release. Please feel free to contact me with any questions or concerns at (432) 661-6601.

Sincerely,

Robert Grubbs Jr.

#### Enclosed

- (1) C-141 Initial
- (2) Site Diagram
- (3) Laboratory Analysis



196

<0.200 <0.200

< 50.0

< 50.0 TPH

<0.200

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BTEX

TPH < 50.0 <0.200 <20.0

< 50.0

TPH

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BTEX

<0.200

< 50.0 TPH

<20.0

<0.200

< 50.0 < 50.0

ರ

TPH





6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BloAquatic) 2501 Mayes Rd., Suite 100 Lubbock, Te El Paso, Te Midland, Te Carrolton, Te

Texas 79424 Texas 79922 Texas 79703 Texas 75006

800-378-1296 806-794-1295 915-585-3443 432-689-6301 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

Report Date: May 20, 2015

15051125

Work Order:

Suite 100 Carrolton, Texas 75006 972-242 •7750 E-Mail lab@traceanalysis.com WEB www.traceanalysis.com

# Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Robert Grubbs COG Operating, LLC 550 W. Texas Avenue Suite 100 Midland, TX, 79701

Project Location: Lea Co, NM Project Name: Bebidas St #1H

Project Nume: Bebidas St #1H Project Number: Bebidas St #1H

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
393017	T-1 0-1'	soil	2015-05-07	00:00	2015-05-11
393018	T-1 2'	soil	2015-05-07	00:00	2015-05-11
393019	T-1 3' (Refusal)	soil	2015-05-07	00:00	2015-05-11
393020	T-2 0-1'	soil	2015-05-07	00:00	2015-05-11
393021	T-2 2'	soil	2015-05-07	00:00	2015-05-11
393022	T-2 3' (Refusal)	soil	2015-05-07	00:00	2015-05-11
393023	T-3 0-1'	soil	2015-05-07	00:00	2015-05-11
393024	T-3 2'	soil	2015-05-07	00:00	2015-05-11
393025	T-3 3'	soil	2015-05-07	00:00	2015-05-11
393026	T-4 0-1	soil	2015-05-07	00:00	2015-05-11
393027	T-4 2'	soil	2015-05-07	00:00	2015-05-11
393028	T-4 3' (Refusal)	soil	2015-05-07	00:00	2015-05-11
393029	SP-1 (Overspray Area)	soil	2015-05-07	00:00	2015-05-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 45 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director James Taylor, Assistant Director Brian Pellam, Operations Manager

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Matrix Spikes			34
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# Case Narrative

Samples for project Bebidas St #1H were received by TraceAnalysis, Inc. on 2015-05-11 and assigned to work order 15051125. Samples for work order 15051125 were received intact at a temperature of 5.6 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	102792	2015-05-13 at 15:07	121501	2015-05-14 at 09:32
BTEX	S 8021B	102812	2015-05-14 at 11:35	121544	2015-05-15 at 08:41
Chloride (Titration)	SM 4500-Cl B	102816	2015-05-14 at 12:08	121521	2015-05-14 at 12:09
Chloride (Titration)	SM 4500-Cl B	102888	2015-05-18 at 15:26	121616	2015-05-19 at 09:40
Chloride (Titration)	SM 4500-Cl B	102912	2015-05-19 at 12:10	121668	2015-05-20 at 08:50
TPH DRO - NEW	S 8015 D	102740	2015-05-11 at 18:46	121475	2015-05-13 at 11:15
TPH DRO - NEW	S 8015 D	102773	2015-05-12 at 17:00	121465	2015-05-13 at 08:29
TPH GRO	S 8015 D	102792	2015-05-13 at 15:07	121502	2015-05-14 at 09:34
TPH GRO	S 8015 D	102812	2015-05-14 at 11:35	121545	2015-05-15 at 08:47

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15051125 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: May 20, 2015 Bebidas St #1H

Work Order: 15051125 Bebidas St #1H

**Analytical Report** 

Sample: 393017 - T-1 0-1'

Laboratory:

Midland

Analysis: BTEX QC Batch: 121501 Analytical Method:

S 8021B 2015-05-14 Prep Method: S 5035 Analyzed By: AK Prepared By: AK

Page Number: 6 of 45

Lea Co, NM

Prep Batch: 102792

Parameter Benzene

Ethylbenzene

Toluene

Xylene

Date Analyzed: Sample Preparation: 2015-05-13

	RL			
Cert	Result	Units	Dilution	RL
2	< 0.0200	mg/Kg	1	0.0200
2	< 0.0200	mg/Kg	1	0.0200
2	< 0.0200	mg/Kg	1	0.0200
2	< 0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.07	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			2.00	mg/Kg	1	2.00	100	70 - 130

Sample: 393017 - T-1 0-1'

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 121521 Prep Batch: 102816

Analytical Method: Date Analyzed:

SM 4500-Cl B 2015-05-14 Sample Preparation: 2015-05-14

Prep Method: N/A Analyzed By: EMPrepared By: EM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	υ		< 20.0	mg/Kg	5	4.00

Sample: 393017 - T-1 0-1'

Laboratory:

Midland

Analysis: TPH DRO - NEW QC Batch: 121475 Prep Batch: 102740

Analytical Method: Date Analyzed: Sample Preparation:

S 8015 D 2015-05-13 2015-05-11

Prep Method: N/A Analyzed By: SCPrepared By: SC

RL

Flag

U.

U

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Parameter	Flag	Cert	Result	Units	Dilution	RL
DRO	υ	2	< 50.0	mg/Kg	1	50.0

Bebidas St #1H

Work Order: 15051125 Bebidas St #1H

Page Number: 7 of 45

Lea Co, NM

AK

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			107	mg/Kg	1	100	107	70 - 130

Sample: 393017 - T-1 0-1'

Laboratory: Midland

Analysis:

TPH GRO 121502

Analytical Method:

S 8015 D

Prep Method: S 5035

QC Batch: Prep Batch: 102792

Date Analyzed: Sample Preparation: 2015-05-13

2015-05-14

Analyzed By: AKPrepared By: AK

RL

Parameter Cert Flag Result Units Dilution RLGRO < 4.00 mg/Kg 4.00 Qu,U 2

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.86	mg/Kg	1	2.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)			1.86	mg/Kg	1_	2.00	93	70 - 130

Sample: 393018 - T-1 2'

Laboratory: Midland

Analysis: BTEX QC Batch: 121501 Prep Batch: 102792

Analytical Method: Date Analyzed: Sample Preparation: 2015-05-13

S 8021B Prep Method: S 5035 2015 - 05 - 14Analyzed By: AK Prepared By:

DΙ

			ILL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	2	< 0.0200	mg/Kg	1	0.0200
Toluene	บ	2	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	υ	2	< 0.0200	mg/Kg	1	0.0200
Xylene	υ	2	< 0.0200	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.14	mg/Kg	1	2.00	107	70 - 130
4-Bromofluorobenzene (4-BFB)			2.06	mg/Kg	I	2.00	103	70 - 130

Report Date: May 20, 2015 Work Order: 15051125 Page Number: 8 of 45 Bebidas St #1H Lea Co, NM

# Sample: 393018 - T-1 2'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 121521 Date Analyzed: 2015-05-14 Analyzed By: EM Prep Batch: 102816 Sample Preparation: 2015-05-14 Prepared By: EM

#### Sample: 393018 - T-1 2'

Laboratory: Midland

Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A QC Batch: 121475 Date Analyzed: 2015-05-13 Analyzed By: SC Prep Batch: 102740 Sample Preparation: Prepared By: 2015-05-11 SC

RLParameter. Cert Result Units Dilution RL Flag DRO < 50.0 50.0 mg/Kg υ Spike Percent Recovery Surrogate Flag Cert Units Dilution Result Amount Recovery Limits

mg/Kg

100

C...11.

101

101

70 - 130

#### Sample: 393018 - T-1 2'

Laboratory: Midland

n-Tricosane

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 121502 Date Analyzed: 2015-05-14 Analyzed By: AK Prep Batch: 102792 Sample Preparation: 2015-05-13 Prepared By: AK

Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.90	mg/Kg	1	2.00	95	70 - 130
4-Bromofluorobenzene (4-BFB)	171 185		1.87	mg/Kg	1	2.00	94	70 - 130

Report Date: May 20, 2015 Bebidas St #1H Work Order: 15051125 Bebidas St #1H Page Number: 9 of 45 Lea Co, NM

# Sample: 393019 - T-1 3' (Refusal)

Laboratory: Midland

Analysis: BTEX QC Batch: 121501 Prep Batch: 102792

Analytical Method: S 8021B Date Analyzed: 2015-05-14 Sample Preparation: 2015-05-13 Prep Method: S 5035 Analyzed By: AK Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	а	< 0.0200	mg/Kg	1	0.0200
Toluene	U	2	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	3	< 0.0200	mg/Kg	1	0.0200
Xylene	U	2	< 0.0200	mg/Kg	1	 0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolucue (TFT)			2.32	mg/Kg	1	2.00	116	70 - 130
4-Bromofluorobenzene (4-BFB)			2.07	mg/Kg	1	2.00	104	70 - 130

#### Sample: 393019 - T-1 3' (Refusal)

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch: 121521 Prep Batch: 102816 Analytical Method: SM 4500-Cl B Date Analyzed: 2015-05-14 Sample Preparation: 2015-05-14 Prep Method: N/A Analyzed By: EM Prepared By: EM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			784	mg/Kg	5	4.00

# Sample: 393019 - T-1 3' (Refusal)

Laboratory: Midland

TPH DRO - NEW

Analysis: TPH D QC Batch: 121475 Prep Batch: 102740 Analytical Method: S 8015 D
Date Analyzed: 2015-05-13
Sample Preparation: 2015-05-11

Prep Method: N/A Analyzed By: SC Prepared By: SC

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
DRO	-, U	2 =	<50.0	mg/Kg	1	50.0

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			94.7	mg/Kg	1	100	95	70 - 130

Bebidas St #1H

Work Order: 15051125 Bebidas St #1H

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Lea Co, NM

Sample: 393019 - T-1 3' (Refusal)

Laboratory:

Midland

Analysis: QC Batch: TPH GRO 121502

Analytical Method:

S 8015 D

Prep Method: S 5035Analyzed By: AK

Prep Batch:

102792

Date Analyzed: Sample Preparation:

2015-05-14 2015-05-13

Prepared By: AK

RL

Parameter Flag GRO  $\mathbf{Q}_{\mathbf{H}_{i}}\mathbf{U}$ 

Cert Result < 4.00 2

Units Dilution mg/Kg

RL

4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.88	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1.	2.00	95	70 - 130

Sample: 393020 - T-2 0-1'

Laboratory: Midland

Analysis:

BTEX QC Batch: 121501 Prep Batch: 102702 Analytical Method: Date Analyzed:

Sample Preparation:

S 8021B 2015-05-14 2015-05-13 Prep Method: S 5035 Analyzed By: AK

AK

Prepared By:

			R.L			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	υ	2	< 0.0200	mg/Kg	1	0.0200
Toluenc	U	2	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	< 0.0200	mg/Kg	1	0.0200
Xylene	U	2	< 0.0200	mg/Kg	.1.	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Triffuorotoluene (TFT)			2.07	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130

Sample: 393020 - T-2 0-1'

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch: 121521 Prep Batch: 102816

Analytical Method: SM 4500-Cl B Date Analyzed: 2015-05-14 Sample Preparation: 2015-05-14

Prep Method: N/A Analyzed By: EM Prepared By: EM

Bebidas St #1H

Work Order: 15051125 Bebidas St #1H Page Number: 11 of 45

Lea Co, NM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	∥ ≋RL
Chloride			12700	mg/Kg	5	4.00

Sample: 393020 - T-2 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 121475 Prep Batch: 102740 Analytical Method: Date Analyzed: S 8015 D 2015-05-13 2015-05-11 Prep Method: N/A

Analyzed By: SC Prepared By: SC

RL

Parameter Flag Cert Result Units Dilution RL DRO  $\upsilon$  2 <50.0 mg/Kg 1 50.0

Sample Preparation:

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			105	mg/Kg	1	100	105	70 - 130

Sample: 393020 - T-2 0-1'

Laboratory: Midland

Analysis: TPH GRO
QC Batch: 121502
Prep Batch: 102792

Analytical Method: S 8015 D Date Analyzed: 2015-05-14 Sample Preparation: 2015-05-13 Prep Method: S 5035 Analyzed By: AK Prepared By: AK

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Sample: 393021 - T-2 2'

Laboratory: Midland

Analytical Method: Analysis: BTEX S 8021B Prep Method: S 5035 2015-05-14 QC Batch: 121501 Date Analyzed: Analyzed By: ΑK Prep Batch: 102792 Sample Preparation: 2015-05-13 Prepared By: AK

Bebidas St #1H

Work Order: 15051125

Page Number: 12 of 45 Bebidas St #1H Lea Co. NM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	υ	2	< 0.0200	mg/Kg	1	0.0200
Toluene	υ	2	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	υ	2	< 0.0200	mg/Kg	1	0.0200
Xylene	υ	2	< 0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Triffuorotoluene (TFT)	G		2.26	mg/Kg	1	2.00	113	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

#### Sample: 393021 - T-2 2'

Laboratory:

Midland Chloride (Titration)

Analysis: QC Batch: 121521 Prep Batch: 102816 Analytical Method: Date Analyzed:

SM 4500-CLB 2015-05-14 Sample Preparation: 2015-05-14

Prep Method: N/A Analyzed By: EM

EM

Prepared By:

RL Parameter Flag Cert Result Units Dilution RLChloride 6280 mg/Kg 4.00

#### Sample: 393021 - T-2 2'

Laboratory:

Midland

Analysis: TPH DRO - NEW QC Batch: 121475Prep Batch: 102740

Analytical Method: Date Analyzed:

S 8015 D 2015-05-13 2015-05-11

Prep Method: N/A Analyzed By: SC Prepared By: SC

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
DRO	U	2	< 50.0	mg/Kg	1	50.0

Sample Preparation:

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			110	mg/Kg	1	100	110	70 - 130

#### Sample: 393021 - T-2 2'

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 121502 Date Analyzed: 2015-05-14 Analyzed By: AK Prep Batch: 102792 Sample Preparation: 2015-05-13 Prepared By: AK

Bebidas St #1H

Work Order: 15051125 Bebidas St #1H

Page Number: 13 of 45 Lea Co, NM

					RL				
Parameter	Flag		Cert		Result	Uni	ts	Dilution	RL
GRO	Q≡,U		2		<4.00	mg/K	g	1	4.00
							Spike	Percent	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)				1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)				1.89	mg/Kg	1	2.00	94	70 - 130

Sample: 393022 - T-2 3' (Refusal)

Laboratory: Midland

Analysis: BTEX QC Batch: 121501 Prep Batch: 102792

S 8021B Analytical Method: Date Analyzed:

2015-05-14 Sample Preparation: 2015-05-13 Prep Method: S 5035 Analyzed By: AK Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	2	< 0.0200	mg/Kg	1	0.0200
Toluene	υ	2	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	ប	3	< 0.0200	mg/Kg	1	0.0200
Xylene	U	2	< 0.0200	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.10	mg/Kg	1	2.00	105	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130

Sample: 393022 - T-2 3' (Refusal)

Laboratory: Midland

Prep Batch: 102816

Chloride (Titration) Analysis: QC Batch: 121521

Analytical Method: Date Analyzed:

SM 4500-Cl B 2015-05-14 Sample Preparation: 2015-05-14

Prep Method: N/A Analyzed By: EM Prepared By: EM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride		.,60	686	mg/Kg	5	4.00

Work Order: 15051125

Bebidas St #1H

Bebidas St #1H

Page Number: 14 of 45

Lea Co, NM

SC

RL

50.0

# Sample: 393022 - T-2 3' (Refusal)

Laboratory:

Midland

TPH DRO - NEW

Analysis: QC Batch: 121475 Prep Batch: 102740

Analytical Method: S 8015 D Date Analyzed: Sample Preparation: 2015-05-11

2015-05-13

Prep Method: N/A Analyzed By: SC

Prepared By:

RLDilution Parameter Flag Cert Result Units DRO < 50.0 mg/Kg U 2

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	W. C. C. C.	92.9	mg/Kg	1	100	93	70 - 130

#### Sample: 393022 - T-2 3' (Refusal)

Laboratory:

Midland

Analysis: TPH GRO QC Batch: 121502 Prep Batch: 102792

Analytical Method: S 8015 D Date Analyzed: 2015-05-14 Sample Preparation: 2015-05-13

Prep Method: S 5035 Analyzed By: AK Prepared By: AK

RL

Result Parameter Flag Cert Units Dilution RLGRO < 4.00 4.00 mg/Kg Qu,U 2

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.89	mg/Kg	1	2.00	94	70 - 130

#### Sample: 393023 - T-3 0-1'

Laboratory:

Midland

Analysis: BTEX QC Batch: 121501 Prep Batch: 102792 Analytical Method: S 8021B Date Analyzed: 2015-05-14 Sample Preparation: 2015-05-13

Prep Method: S 5035 Analyzed By: AK Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	บ	2	< 0.0200	mg/Kg	1	0.0200
Toluene	U	2	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	3	< 0.0200	mg/Kg	1	0.0200

continued ...

Bebidas St #1H

Work Order: 15051125

Bebidas St #1H

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Lea Co, NM

sample 393023 continued ...

				RL				
Parameter	Flag	Cert		Result	Unit	S	Dilution	RL
Xylene	υ	2	<	< 0.0200	mg/K	g	1	0.0200
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.20	mg/Kg	1	2.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)			1.95	mg/Kg	1	2.00	98	70 - 130

Sample: 393023 - T-3 0-1'

Laboratory: Midland

Analysis:

QC Batch: 121521 Prep Batch: 102816

Chloride (Titration)

Analytical Method:

Date Analyzed: Sample Preparation: SM 4500-Cl B

2015-05-14 2015 - 05 - 14

Prep Method: N/A Analyzed By:

EM Prepared By: EM

RLParameter Units Dilution Flag Cert Result RL Chloride 98.0 mg/Kg 5 4.00

Sample: 393023 - T-3 0-1'

Laboratory:

Midland

Analysis: QC Batch:

TPH DRO - NEW

121475 Prep Batch: 102740 Analytical Method: Date Analyzed:

Sample Preparation:

S 8015 D 2015-05-13 2015-05-11 Prep Method: N/A Analyzed By: SC

Prepared By: SC

RLFlag Parameter Cert Result Units Dilution RL DRO < 50.0 U 2 mg/Kg 50.0

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			86.5	mg/Kg	1	100	86	70 - 130

Sample: 393023 - T-3 0-1'

Laboratory: Midland

Analysis: TPH GRO QC Batch: 121502 Prep Batch: 102792

Analytical Method: Date Analyzed:

S 8015 D 2015-05-14 Sample Preparation: 2015-05-13 Prep Method: S 5035 Analyzed By: AK Prepared By: AK

Bebidas St #1H

Work Order: 15051125 Bebidas St #1H

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					RL				
Parameter	Flag		Cert		Result	Uni	ts	Dilution	RL
GRO	$\mathbf{Q}_0,\mathbf{U}$		2		<4.00	mg/K	g	1	4.00
							Spike	Percent	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)				1.85	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)				1.84	mg/Kg	1	2.00	92	70 - 130

# Sample: 393024 - T-3 2'

Laboratory:

Midland

Analysis: BTEX QC Batch: 121501 Prep Batch: 102792 Analytical Method: Date Analyzed:

S 8021B 2015-05-14 Prep Method: S 5035 AK

Analyzed By: Sample Preparation: 2015-05-13 Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	u	2	< 0.0200	mg/Kg	1	0.0200
Toluene	U	2	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	< 0.0200	mg/Kg	1	0.0200
Xylene	U	2	< 0.0200	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.25	mg/Kg	1	2.00	112	70 - 130
4-Bromofluorobenzene (4-BFB)			1.98	mg/Kg	1	2.00	99	70 - 130

# Sample: 393024 - T-3 2'

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 121521Prep Batch: 102816

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2015-05-14 2015-05-14

Prep Method: N/A Analyzed By: EM Prepared By: EM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			196	mg/Kg	5	4.00

Bebidas St #1H

Work Order: 15051125

Page Number: 17 of 45 Bebidas St #1H Lea Co, NM

Sample: 393024 - T-3 2'

Laboratory: Midland

Analysis:

TPH DRO - NEW

QC Batch: 121475 Prep Batch: 102740

Analytical Method: Date Analyzed:

Sample Preparation:

S 8015 D 2015-05-13

2015-05-11

Prep Method: N/A

Analyzed By: SC Prepared By: SC

RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
DRO	U	2	< 50.0	mg/Kg	1	50.0

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			89.6	mg/Kg	1	100	90	70 - 130

Sample: 393024 - T-3 2'

Laboratory: Midland

Analysis: TPH GRO QC Batch: 121502 Prep Batch: 102792

Analytical Method: Date Analyzed:

S 8015 D 2015-05-14 Sample Preparation: 2015-05-13 Prep Method: S 5035 Analyzed By: AK Prepared By:

AK

RL

Parameter Flag Cert Result Units Dilution RL GRO < 4.00 4.00 Qa,U 2 mg/Kg

22-011				100		Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.80	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.84	mg/Kg	1	2.00	92	70 - 130

Sample: 393025 - T-3 3'

Laboratory: Midland

Analysis: BTEX QC Batch: 121544 Prep Batch: 102812 Analytical Method: S 8021B Date Analyzed: 2015-05-15 Sample Preparation: 2015-05-14

Prep Method: S 5035 Analyzed By: AK Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	3	< 0.0200	mg/Kg	1	0.0200
Toluene	Ű	2	< 0.0200	$\mathrm{mg}/\mathrm{Kg}$	1	0.0200
Ethylbenzene	U	2	< 0.0200	$\mathrm{mg}/\mathrm{Kg}$	1	0.0200
Xylene	U	2	< 0.0200	mg/Kg	1	0.0200

Bebidas St #1H

Work Order: 15051125 Bebidas St #1H

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.18	mg/Kg	1	2.00	109	70 - 130
4-Bromofluorobenzene (4-BFB)			2.00	mg/Kg	1	2.00	100	70 - 130

#### Sample: 393025 - T-3 3'

Laboratory:

Prep Batch:

Midland

102816

Analysis: Chloride (Titration) QC Batch: 121521 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2015-05-14 2015-05-14 Prep Method: N/A Analyzed By: EM Prepared By: EM

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Lea Co, NM

RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			196	mg/Kg	5	4.00

#### Sample: 393025 - T-3 3'

Laboratory: Midland

Analysis: TPH DRO - NEW QC Batch: 121475 Prep Batch: 102740 Analytical Method: S 8015 D Date Analyzed: 2015-05-13 Sample Preparation: 2015-05-11

Prep Method: N/A Analyzed By: SC Prepared By: SC

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	1 1 1 2		106	mg/Kg	1	100	106	70 - 130

#### Sample: 393025 - T-3 3'

Laboratory: Midland

Analysis: TPH GRO QC Batch: 121545 Prep Batch: 102812 Analytical Method: S 8015 D Date Analyzed: 2015-05-15 Sample Preparation: 2015-05-14

Prep Method: S 5035 Analyzed By: AK Prepared By: AK

Bebidas St #1H

Work Order: 15051125

Page Number: 19 of 45 Bebidas St #1H Lea Co, NM

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.82	mg/Kg	1	2.00	91	70 - 130
4-Bromofluorobenzene (4-BFB)			1.87	mg/Kg	1	2.00	94	70 - 130

Sample: 393026 - T-4 0-1'

Laboratory: Midland

Analysis: BTEX QC Batch: 121544 Prep Batch: 102812 Analytical Method: S 8021B Date Analyzed: 2015 - 05 - 15Sample Preparation: 2015-05-14 Prep Method: S 5035 Analyzed By: AK Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	2	< 0.0200	mg/Kg	1	0.0200
Toluene	U	2	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	< 0.0200	mg/Kg	1	0.0200
Xylene	will II u	2	< 0.0200	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.08	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			1.94	mg/Kg	1	2.00	97	70 - 130

Sample: 393026 - T-4 0-1'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 121521 Date Analyzed: 2015-05-14 Analyzed By: EM Prep Batch: 102816 Sample Preparation: 2015-05-14 Prepared By: EM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution —	RL
Chloride		111	196	mg/Kg	5	4.00

Sample: 393026 - T-4 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A QC Batch: Date Analyzed: SC 121475 2015-05-13 Analyzed By: Prep Batch: 102740 Sample Preparation: 2015-05-11 Prepared By: SC

Work Order: 15051125 Bebidas St #1H

Bebidas St #1H Lea Co, NM

					RL			
Parameter		Flag	Cert	Res	sult	Units	Dilution	RL
DRO		U	2	< 5	0.0	mg/Kg	1	50.0
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			96.5	mg/Kg	1	100	96	70 - 130

#### Sample: 393026 - T-4 0-1'

Laboratory:

Midland

Analysis: TPH GRO QC Batch: 121545 Prep Batch: 102812 Analytical Method: S 8015 D
Date Analyzed: 2015-05-15
Sample Preparation: 2015-05-14

Prep Method: S 5035 Analyzed By: AK Prepared By: AK

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						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.76	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.82	mg/Kg	1	2.00	91	70 - 130

# Sample: 393027 - T-4 2'

Laboratory: Midland

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 121544 Date Analyzed: 2015-05-15 Analyzed By: AK Prep Batch: 102812 Sample Preparation: 2015-05-14 Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	2	< 0.0200	mg/Kg	1	0.0200
Toluene	U	2	< 0.0200	$\mathrm{mg}/\mathrm{Kg}$	1	0.0200
Ethylbenzene	U.	2	< 0.0200	mg/Kg	1	0.0200
Xylene	U	2	< 0.0200	mg/Kg	1	0.0200

_						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromoffuorobenzene (4-BFB)			1.74	mg/Kg	1	2.00	87	70 - 130

Bebidas St #1H

Work Order: 15051125 Bebidas St #1H

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Lea Co, NM

Sample: 393027 - T-4 2'

Laboratory: Midland

Analysis:

Chloride (Titration)

Analytical Method:

SM 4500-Cl B

Prep Method:

N/A

RL

4.00

QC Batch:

121616

Date Analyzed: Sample Preparation: 2015-05-19

Analyzed By:

AK ΑK

Prep Batch: 102888

2015-05-18

Prepared By:

RLResult

Parameter Flag Cert Chloride

Units Dilution mg/Kg

Sample: 393027 - T-4 2'

Laboratory: Midland

Analysis:

TPH DRO - NEW

Analytical Method:

S 8015 D

Prep Method: N/A

QC Batch:

121465 Prep Batch: 102773 Date Analyzed: 2015-05-13 Sample Preparation:

280

Analyzed By: SC SC

2015-05-12 Prepared By:

RL

Parameter Flag Cert Result Units Dilution RLDRO < 50.0 mg/Kg 50.0 2

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			97.8	mg/Kg	1	100	98	70 - 130

Sample: 393027 - T-4 2'

Laboratory: Analysis:

QC Batch:

Midland TPH GRO

121545Prep Batch: 102812 Analytical Method:

S 8015 D 2015-05-15 Date Analyzed: Sample Preparation: 2015-05-14 Prep Method: S 5035

Analyzed By: AK Prepared By: AK

RL Flag Parameter Cert Result Units Dilution RL **GRO** <4.00 mg/Kg 4.00 2

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.58	mg/Kg	I	2.00	79	70 - 130
4-Bromofluorobenzene (4-BFB)			1.62	$\mathrm{mg}/\mathrm{Kg}$	1	2.00	81	70 - 130

Report Date: May 20, 2015 Work Order: 15051125 Page Number: 22 of 45 Bebidas St #1H Lea Co, NM

Prep Method: S 5035

AK

0.0200

Analyzed By:

# Sample: 393028 - T-4 3' (Refusal)

Laboratory:	Midland		
Analysis:	BTEX	Analytical Method:	S 8021B
QC Batch:	121544	Date Analyzed:	2015-05-15
Pren Batch:	102812	Sample Preparation:	2015-05-14

Prep Batch: 102812		Sample Preparent	aration: 2015-05-	14	Prepared By:	AK
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	υ	2	< 0.0200	mg/Kg	1	0.0200
Toluene	υ	2	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	ช	2	< 0.0200	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.14	mg/Kg	1	2.00	107	70 - 130
4-Bromofhorobenzene (4-BFB)			1.98	mg/Kg	1	2.00	99	70 - 130

< 0.0200

mg/Kg

#### Sample: 393028 - T-4 3' (Refusal)

Laboratory: Midland

Xylene

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 121668 Date Analyzed: 2015-05-20 Analyzed By: AK Prep Batch: 102912 Sample Preparation: 2015-05-19 Prepared By: AK

#### Sample: 393028 - T-4 3' (Refusal)

Laboratory: Midland

Analysis: TPH DRO - NEW Prep Method: N/A Analytical Method: S 8015 D QC Batch: 121465 Date Analyzed: Analyzed By: SC 2015-05-13 Prep Batch: 102773 Sample Preparation: 2015-05-12 Prepared By: SC

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			95.9	mg/Kg	1	100	96	70 - 130

Bebidas St #1H

Work Order: 15051125

Bebidas St #1H

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Lea Co, NM

Sample: 393028 - T-4 3' (Refusal)

Laboratory:

Midland

Analysis:

TPH GRO 121545

Analytical Method:

S 8015 D

Prep Method:

S 5035

QC Batch: Prep Batch:

102812

Date Analyzed:

2015-05-15

Analyzed By:

AK

Sample Preparation:

2015-05-14

Prepared By:

AK

RL

Parameter Flag Cert Result Units Dilution RL GRO < 4.00 4.00 U mg/Kg 2

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.80	mg/Kg	1	2.00	90	$70 \pm 130$
4-Bromofluorobenzene (4-BFB)			1.82	mg/Kg	1	2.00	91	70 - 130

#### Sample: 393029 - SP-1 (Overspray Area)

Laboratory: Midland

Analysis: BTEX

QC Batch: 121544 Prep Batch: 102812

Analytical Method: S 8021B Date Analyzed: 2015-05-15 Sample Preparation: 2015-05-14 Prep Method: S 5035 Analyzed By: AK Prepared By: AK

RLParameter Cert Units Dilution RLFlag Result Benzene < 0.0200 mg/Kg 1 0.0200 U 2 Toluene mg/Kg 1 < 0.0200 0.0200U 2 Ethylbenzene mg/Kg 1 U 2 < 0.0200 0.0200Xylene < 0.0200 mg/Kg 1 0.0200U 2

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.19	mg/Kg	1	2.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

# Sample: 393029 - SP-1 (Overspray Area)

Laboratory: Midland

Prep Batch: 102912

Analysis: Chloride (Titration) QC Batch: 121668

Analytical Method: Date Analyzed: Sample Preparation:

SM 4500-Cl B 2015-05-20 2015-05-19

Prep Method: N/A Analyzed By: AK Prepared By: AK

Bebidas St #1H

Work Order: 15051125 Bebidas St #1H

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Lea Co, NM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	U		<20.0	mg/Kg	5	4.00

#### Sample: 393029 - SP-1 (Overspray Area)

Laboratory:

Midland

Analysis: QC Batch: TPH DRO - NEW

Analytical Method:

S 8015 D

Prep Method: N/A

121465 102773

Date Analyzed: Sample Preparation:

2015-05-13 2015-05-12 Analyzed By: SCPrepared By: SC

Prep Batch:

RL

Parameter DRO

Flag Cert Result < 50.0 2

Units mg/Kg

RLDilution 50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			102	mg/Kg	-1-	100	102	70 - 130

# Sample: 393029 - SP-1 (Overspray Area)

Laboratory:

Midland

TPH GRO Analysis: 121545

Analytical Method: Date Analyzed:

S 8015 D 2015-05-15 Prep Method: S 5035 Analyzed By: AK

QC Batch: Prep Batch:

Prepared By: AK

CRO

102812

Sample Preparation: 2015-05-14

RL Units

Flag Parameter

U

Cert Result 2 < 4.00

mg/Kg

Dilution RL4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.91	mg/Kg	1	2.00	96	70 - 130

Report Date: May 20, 2015 Bebidas St #1H Work Order: 15051125 Bebidas St #1H

Method Blanks

Method Blank (1)

QC Batch: 121465

QC Batch: 121465 Prep Batch: 102773

Date Analyzed: 2015-05-13 QC Preparation: 2015-05-12 Analyzed By: SC Prepared By: SC

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Lea Co, NM

Parameter Flag Cert Result

 Parameter
 Flag
 Cert
 Result
 Units
 RL

 DRO
 2
 <7.41</td>
 mg/Kg
 50

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			101	mg/Kg	1	100	101	70 - 130

Method Blank (1)

QC Batch: 121475

QC Batch: 121475 Prep Batch: 102740 Date Analyzed: 2015-05-13 QC Preparation: 2015-05-11 Analyzed By: SC Prepared By: SC

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			92.6	mg/Kg	1	100	_ 93	70 - 130

Method Blank (1)

QC Batch: 121501

QC Batch: 121501 Prep Batch: 102792 Date Analyzed: 2015-05-14 QC Preparation: 2015-05-13 Analyzed By: AK Prepared By: AK

MDL Parameter Flag Cert Result Units RL Benzene mg/Kg 0.02 < 0.00533 2 Toluene 0.02< 0.00645 mg/Kg 2 Ethylbenzene < 0.0116 mg/Kg 0.022 Xylene < 0.00874 mg/Kg 0.02

Bebidas St#1H

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.28	mg/Kg	1	2.00	114	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130

Method Blank (1)

QC Batch: 121502

QC Batch: 121502 Prep Batch: 102792 Date Analyzed: 2015-05-14 QC Preparation: 2015-05-13 Analyzed By: AK Prepared By: AK

			MDL		
Parameter	Flag	Cert	Result	Units	RL
GRO		3	< 2.32	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.90	mg/Kg	1	2.00	95	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Method Blank (1)

QC Batch: 121521

QC Batch: 121521 Prep Batch: 102816 Date Analyzed: 2015-05-14 QC Preparation: 2015-05-14 Analyzed By: EM Prepared By: EM

			MDL		
Parameter	Flag	Cert	Result	Units	RL
Chloride			< 3.85	mg/Kg	4

Method Blank (1)

QC Batch: 121544

QC Batch: 121544 Prep Batch: 102812 Date Analyzed: 2015-05-15 QC Preparation: 2015-05-14 Analyzed By: AK Prepared By: AK

			MDL		
Parameter	Flag	Cert	Result	Units	RL
Benzene		2	< 0.00533	mg/Kg	0.02
Toluene		2	< 0.00645	mg/Kg	0.02
Ethylbenzene		2	< 0.0116	mg/Kg	0.02

continued . . .

Bebidas St #1H

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method blank continued ...

Parameter	Flag		Cert		MDL Result		Units	RL	
Xylene			2		< 0.00874	1	mg/Kg	0.02	
						Spike	Percent	Recovery	
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)			2.28	mg/Kg	1	2.00	114	70 - 130	
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130	

Method Blank (1)

QC Batch: 121545

QC Batch: 121545 Prep Batch: 102812 Date Analyzed: 2015-05-15 QC Preparation: 2015-05-14 Analyzed By: AK Prepared By: AK

-						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.4	1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.91	mg/Kg	1	2.00	96	70 - 130

Method Blank (1)

QC Batch: 121616

QC Batch: 121616 Prep Batch: 102888 Date Analyzed: 2015-05-19 QC Preparation: 2015-05-18

Analyzed By: AK Prepared By: AK

Method Blank (1)

QC Batch: 121668

QC Batch: 121668 Prep Batch: 102912 Date Analyzed: 2015-05-20 QC Preparation: 2015-05-19

Analyzed By: AK Prepared By: AK Report Date: May 20, 2015 Bebidas St #1H Work Order: 15051125 Bebidas St #1H Page Number: 28 of 45

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			MDL		
Parameter	Flag	Cert	Result	Units	RL
Chloride			<3.85	mg/Kg	4

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# **Laboratory Control Spikes**

Laboratory Control Spike (LCS-1)

OC Batch: 121465 Date Analyzed:

2015-05-13

Analyzed By: SC

Prep Batch: 102773

QC Preparation:

2015-05-12

Prepared By: SC

			LCS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		2	235	mg/Kg	1	250	<7.41	94	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		2	249	mg/Kg	1	250	<7.41	100	70 - 130	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	100	107	mg/Kg	1	100	100	107	70 - 130

#### Laboratory Control Spike (LCS-1)

QC Batch: 121475 Date Analyzed:

2015-05-13

Analyzed By: Prepared By:

Prep Batch: 102740

QC Preparation: 2015-05-11

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit DRO 239 mg/Kg 250 7.66 70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		2	219	mg/Kg	1	250	7.66	8-1	70 - 130	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	118	113	mg/Kg	1	100	118	113	70 - 130

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#### Laboratory Control Spike (LCS-1)

QC Batch:

121501Prep Batch: 102792 Date Analyzed: QC Preparation:

2015-05-14 2015-05-13 Analyzed By: AK

Prepared By: AK

Param	F C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2	2.26	mg/Kg	1	2.00	< 0.00533	113	70 - 130
Toluene	2	1.99	mg/Kg	1	2.00	< 0.00645	100	70 - 130
Ethylbenzene	2	1.94	mg/Kg	1	2.00	< 0.0116	97	70 - 130
Xylene	2	5.76	mg/Kg	1	6.00	< 0.00871	96	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		2	2.23	mg/Kg	1	2.00	< 0.00533	112	70 - 130	1	20
Toluene		2	2.01	mg/Kg	1	2.00	< 0.00645	100	70 - 130	1	20
Ethylbenzene		2	1.96	mg/Kg	1	2.00	< 0.0116	98	70 - 130	1	20
Xylene		2	5.75	mg/Kg	1	6.00	< 0.00874	96	70 - 130	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.20	2.12	mg/Kg	1	2.00	4110	106	70 - 130
4-Bromofluorobenzene (4-BFB)	1.94	1.92	mg/Kg	1	2.00	97	96	70 - 130

#### Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 102792

121502

Date Analyzed:

2015-05-14 QC Preparation: 2015-05-13 Analyzed By: AK

Prepared By: AK

			LCS			Spike	Matrix		Rec.	
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	
GRO		2	14.5	mg/Kg	1	20.0	< 2.32	72	70 - 130	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		2	15.2	mg/Kg	1	20.0	< 2.32	76	70 - 130	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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control spikes continued	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil	Amount	Rec.	Rec.	Limit
	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.72	1.79	mg/Kg	1	2.00	86	90	70 - 130
4-Bromofluorobenzene (4-BFB)	1.85	1.92	mg/Kg	1	2.00	92	96	70 - 130

#### Laboratory Control Spike (LCS-1)

QC Batch: 121521 Prep Batch: 102816 Date Analyzed: 2015-05-14 QC Preparation: 2015-05-14 Analyzed By: EM Prepared By: EM

			LCS			Spike	Matrix		Rec.
Param	F	C	Resuit	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2650	mg/Kg	5	2500	<19.2	106	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2550	mg/Kg	5	2500	<19.2	102	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch: 121544 Prep Batch: 102812 Date Analyzed: 2015-05-15 QC Preparation: 2015-05-14

Analyzed By: AK Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		2	2.16	mg/Kg	1	2.00	< 0.00533	108	70 - 130
Toluene		3	1.92	mg/Kg	1	2.00	< 0.00645	96	70 - 130
Ethylbenzene		2	1.86	mg/Kg	1	2.00	< 0.0116	93	70 - 130
Xylene		2	5.58	mg/Kg	1	6.00	< 0.00874	93	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	11	2	2.17	mg/Kg	1	2.00	< 0.00533	108	70 - 130	0	20
Toluene		3	1.89	mg/Kg	1	2.00	< 0.00645	94	70 - 130	2	20

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control spikes continued . . .

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Ethylbenzene		2	1.87	mg/Kg	1	2.00	< 0.0116	94	70 - 130	0	20
Xylene		2	5.53	mg/Kg	1	6.00	< 0.00874	92	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.20	2.26	mg/Kg	1	2.00	110	113	70 - 130
4-Bromofluorobenzene (4-BFB)	1.92	1.93	mg/Kg	1	2.00	96	96	70 - 130

# Laboratory Control Spike (LCS-1)

QC Batch:

121545

Date Analyzed:

2015-05-15

Analyzed By: AK

Prep Batch: 102812

QC Preparation: 2015-05-14

Prepared By: AK

44 7000			LCS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		2	14.0	mg/Kg	1	20.0	< 2.32	70	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		2	16.1	mg/Kg	1	20.0	< 2.32	80	70 - 130	14	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Triffuorotoluene (TFT)	1.92	1.92	mg/Kg	1	2.00	96	96	70 - 130
4-Bromoftuorobenzene (4-BFB)	2.03	2.02	mg/Kg	1	2.00	102	101	70 - 130

#### Laboratory Control Spike (LCS-1)

QC Batch:

121616

Date Analyzed:

2015-05-19

Analyzed By: AK

Prep Batch: 102888

QC Preparation: 2015-05-18

Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dit.	Amount	Result	Rec.	Limit
Chloride			2520	mg/Kg	5	2500	<19.2	101	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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			LCSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2520	mg/Kg	5	2500	<19.2	101	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Laboratory Control Spike (LCS-1)

QC Batch:

121668

Date Analyzed:

2015-05-20

Analyzed By: AK

Prep Batch: 102912

QC Preparation: 2015-05-19

Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2370	mg/Kg	5	2500	<19.2	95	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2460	mg/Kg	5	2500	<19.2	98	85 - 115	4	20

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Report Date: May 20, 2015

## **Matrix Spikes**

Matrix Spike (xMS-1) Spiked Sample: 393110

QC Batch: 121465 Prep Batch: 102773 Date Analyzed: 2015-05-13 QC Preparation: 2015-05-12 Analyzed By: SC Prepared By: SC

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			MS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		2	216	mg/Kg	1	250	16.4	80	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		2	242	mg/Kg	1	250	16.4	90	70 - 130	11	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	99.9	104	mg/Kg	1	100	100	104	70 - 130

Matrix Spike (MS-1) Spiked Sample: 393011

 QC Batch:
 121475
 Date Analyzed:
 2015-05-13
 Analyzed By:
 SC

 Prep Batch:
 102740
 QC Preparation:
 2015-05-11
 Prepared By:
 SC

			MS			Spike	Matrix		Rec.
Param	F	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		2	197	mg/Kg	1	250	18.7	71	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}_{i}$	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		2	206	mg/Kg	1	250	18.7	75	70 - 130	4	20

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	94.7	97.6	mg/Kg	1	100	95	98	70 - 130

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Matrix Spike (MS-1) Spiked Sample: 393011

QC Batch: 121501 Prep Batch: 102792 Date Analyzed: 2015-05-14 QC Preparation: 2015-05-13 Analyzed By: AK Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	$\mathbf{F}$	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		2	2.07	mg/Kg	1	2.00	< 0.00533	104	70 - 130
Toluene		3	1.88	mg/Kg	1	2.00	< 0.00645	94	70 - 130
Ethylbenzene		2	1.88	mg/Kg	1	2.00	< 0.0116	94	70 - 130
Xylene		2	5.69	mg/Kg	1	6.00	< 0.00874	95	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		2	2.03	mg/Kg	1	2.00	< 0.00533	102	70 - 130	2	20
Toluene		2	1.86	mg/Kg	1	2.00	< 0.00645	93	70 - 130	1	20
Ethylbenzene		2	1.91	mg/Kg	1	2.00	< 0.0116	96	70 - 130	2	20
Xylene		2	5.61	mg/Kg	1	6.00	< 0.00874	94	70 - 130	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	$_{ m MS}$	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.93	1.66	mg/Kg	1	2	96	83	70 - 130
4-Bromofluorobenzene (4-BFB)	1.95	1.71	mg/Kg	1	2	98	86	70 - 130

Matrix Spike (MS-1) Spiked Sample: 393011

QC Batch: 121502 Prep Batch: 102792 Date Analyzed: QC Preparation: 2015-05-13

2015-05-14

Analyzed By: AK Prepared By: AK

				MS			Spike	Matrix		Rec.
Param		F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		Qı Qı	2	11.4	mg/Kg	1	20.0	< 2.32	57	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

				MSD			Spike	Matrix		Rec.		RPD
Param		F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	Qs	Qs	2	12.8	mg/Kg	1	20.0	< 2.32	64	70 - 130	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Changement	MS Result	MSD Result	Halle	Dill	Spike	MS	MSD Rec.	Rec.
Surrogate	Result	resuit	Units	Dil.	Amount	Rec.	Rec.	Limit
	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.77	1.74	mg/Kg	- 1	2	88	87	70 - 130
4-Bromoffuorobenzene (4-BFB)	1.86	1.91	mg/Kg	1	2	93	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 393026

QC Batch: 121521 Prep Batch: 102816 Date Analyzed: 2015-05-14 QC Preparation: 2015-05-14 Analyzed By: EM Prepared By: EM

			MS			Spike	Matrix		Rec.
Param	$\mathbf{F}$	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2740	mg/Kg	- 5	2500	196	102	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit_	RPD	Limit
Chloride		-	2550	mg/Kg	5	2500	196	94	78.9 - 121	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 393029

 QC Batch:
 121544
 Date Analyzed:
 2015-05-15

 Prep Batch:
 102812
 QC Preparation:
 2015-05-14

Analyzed By: AK Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		2	2.25	mg/Kg	1	2.00	< 0.00533	112	70 - 130
Toluene		2	2.03	mg/Kg	1	2.00	< 0.00645	102	70 - 130
Ethylbenzene		2	2.09	mg/Kg	1	2.00	< 0.0116	104	70 - 130
Xylene		3	6.20	mg/Kg	1	6.00	< 0.00874	103	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

		MSD			Spike	Matrix		Rec.		RPD
Param F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	2	2.18	mg/Kg	1	2.00	< 0.00533	109	70 - 130	3	20
Toluene	2	2.01	mg/Kg	- 1	2.00	< 0.00645	100	70 - 130	1	20

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matrix spikes continued . . .

			MSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Ethylbenzene		2	2.04	mg/Kg	_ 1	2.00	< 0.0116	102	70 - 130	2	20
Xylene		2	6.07	mg/Kg	1	6.00	< 0.00874	101	70 - 130	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.17	2.24	mg/Kg	1	2	108	112	70 - 130
4-Bromofluorobenzene (4-BFB)	2.12	2.07	mg/Kg	1	2	106	104	70 - 130

Matrix Spike (MS-1) Spiked Sample: 393029

QC Batch:

121545 Prep Batch: 102812 Date Analyzed: QC Preparation:

2015-05-15 2015-05-14

Analyzed By: AK

Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		2	14.1	mg/Kg	1	20.0	< 2.32	70	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{F}$	С	Result	Units	Dil.	Amount		Rec.	Limit	RPD	Limit
GRO		2	14.5	mg/Kg	I	20.0	< 2.32	72	70 - 130	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.70	1.83	mg/Kg	1	2	85	92	70 - 130
4-Bromofluorobenzene (4-BFB)	1.88	1.97	mg/Kg	1	2	94	98	70 - 130

Matrix Spike (MS-1) Spiked Sample: 391853

QC Batch: 121616 Prep Batch: 102888

Date Analyzed: 2015-05-19 QC Preparation: 2015-05-18 Analyzed By: AK Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2900	mg/Kg	5	2500	748	86	78.9 - 121

Bebidas St #1H

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			MSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec	Limit	RPD	Limit
Chloride			2900	mg/Kg	5	2500	748	86	78.9 - 121	-0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1)

Spiked Sample: 393034

QC Batch:

121668

Date Analyzed:

2015-05-20

Analyzed By: AK

Prepared By: AK

Prep Batch: 102912

QC Preparation: 2015-05-19

			MS			Spike	Matrix		Rec.
Param	E	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2460	mg/Kg	5	2500	<19.2	98	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MSD			Spike	Matrix		Rec.		RPD
Param	F	$\mathbf{C}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2650	mg/Kg	5	2500	<19.2	106	78.9 - 121	7	20

Bebidas St #1H

Work Order: 15051125

Bebidas St #1H

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# Calibration Standards

Standard (CCV-1)

QC Batch: 121465

Date Analyzed: 2015-05-13

Analyzed By: SC

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		2	mg/Kg	250	244	98	80 - 120	2015-05-13

Standard (CCV-2)

QC Batch: 121465

Date Analyzed: 2015-05-13

Analyzed By: SC

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		3	mg/Kg	250	225	90	80 - 120	2015-05-13

Standard (CCV-2)

QC Batch: 121475

Date Analyzed: 2015-05-13

Analyzed By: SC

				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		2	mg/Kg	250	224	90	80 - 120	2015-05-13

Standard (CCV-3)

QC Batch: 121475

Date Analyzed: 2015-05-13

Analyzed By: SC

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		2	mg/Kg	250	245	98	80 - 120	2015-05-13

Bebidas St #1H

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Standard (CCV-2)

QC Batch: 121501

Date Analyzed: 2015-05-14

Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		2	mg/kg	0.100	0.109	109	80 - 120	2015-05-14
Toluene		2	mg/kg	0.100	0.0970	97	80 - 120	2015-05-14
Ethylbenzene		2	mg/kg	0.100	0.0955	96	80 - 120	2015-05-14
Xylene		2	mg/kg	0.300	0.281	94	80 - 120	2015-05-14

Standard (CCV-3)

QC Batch: 121501

Date Analyzed: 2015-05-14

Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		2	mg/kg	0.100	0.106	106	80 - 120	2015-05-14
Toluene		2	mg/kg	0.100	0.0931	93	80 - 120	2015-05-14
Ethylbenzene		2	mg/kg	0.100	0.0911	91	80 - 120	2015-05-14
Xylene		2	mg/kg	0.300	0.269	90	80 - 120	2015-05-14

Standard (CCV-2)

QC Batch: 121502

Date Analyzed: 2015-05-14

Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		2	mg/Kg	1.00	0.904	90	80 - 120	2015-05-14

Standard (CCV-3)

QC Batch: 121502

Date Analyzed: 2015-05-14

Analyzed By: AK

				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Cone.	Recovery	Limits	Analyzed
GRO		2	mg/Kg	1.00	0.797	80	80 - 120	2015-05-14

Bebidas St #1H

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Standard (ICV-1)

QC Batch: 121521

Date Analyzed: 2015-05-14

Analyzed By: EM

				<b>ICVs</b>	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride	40.11.400	- 8	mg/Kg	100	101	101	85 - 115	2015-05-14

Standard (CCV-1)

QC Batch: 121521

Date Analyzed: 2015-05-14

Analyzed By: EM

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units _	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		10	mg/Kg	100	99.0	99	85 - 115	2015-05-14

Standard (CCV-1)

QC Batch: 121544

Date Analyzed: 2015-05-15

Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		2	mg/kg	0.100	0.106	106	80 - 120	2015-05-15
Toluene		3	mg/kg	0.100	0.0931	93	80 - 120	2015-05-15
Ethylbenzene		2	mg/kg	0.100	0.0911	91	80 - 120	2015-05-15
Xylene		2	mg/kg	0.300	0.269	90	80 - 120	2015-05-15

Standard (CCV-2)

QC Batch: 121544

Date Analyzed: 2015-05-15

Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	 Flag	Cert	Units	Cone.	Conc.	Recovery	Limits	Analyzed
Benzene		2	mg/kg	0.100	0.111	111	80 - 120	2015-05-15
Toluene		2	mg/kg	0.100	0.0977	98	80 - 120	2015-05-15
Ethylbenzene		2	mg/kg	0.100	0.0972	97	80 - 120	2015-05-15
Xylene		2	mg/kg	0.300	0.283	94	80 - 120	2015-05-15

Report Date: May 20, 2015 Bebidas St #1H				Work Orde Bebidas		Page Number: 42 of 45 Lea Co, NM		
Standard (C	CV-1)							
QC Batch: 12	21545		Date	Analyzed:	2015-05-15		Analy	zed By: AK
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Cone.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.797	80	80 - 120	2015-05-15
QC Batch: 12	Flag	Cert	Units	Analyzed: CCVs True Conc.	2015-05-15 CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	zed By: AK  Date  Analyzed
GRO	ring	2	ng/Kg	1.00	0.968	97	80 - 120	2015-05-15
Standard (IC QC Batch: 12	CV-1) 21616		Date	Analyzed:	2015-05-19		Analy	zed By: AK
Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Cone.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
70.1 1.1			/17	100	101	101	05 115	2018 05 10

#### Standard (CCV-1)

Chloride

QC Batch: 121616 Date Analyzed: 2015-05-19 Analyzed By: AK

mg/Kg

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	99.0	99	85 - 115	2015-05-19

100

101

101

85 - 115

2015-05-19

#### Standard (ICV-1)

QC Batch: 121668 Date Analyzed: 2015-05-20 Analyzed By: AK

Bebidas St $\#1\mathrm{H}$ 

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				ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2015-05-20

Standard (CCV-1)

QC Batch: 121668

Date Analyzed: 2015-05-20

Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2015-05-20

Report Date: May 20, 2015 Work Order: 15051125 Page Number: 44 of 45 Bebidas St #1H Lea Co, NM

## **Appendix**

### Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

### **Laboratory Certifications**

	Certifying	Certification	Laboratory
C	Authority	Number	Location
	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
•	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418	Lubbock
2	NELAP	T104704392-14-8	Midland

## Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.
  - U The analyte is not detected above the SDL

Report Date: May 20, 2015 Bebidas St $\#1\mathrm{H}$ 

Work Order: 15051125 Bebidas St #1H

Page Number: 45 of 45 Lea Co, NM

### Attachments

The scanned attachments will follow this page. Please note, each attachment may consist of more than one page.

LAB Order 10 # 1505 | 135

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2501 Mayes Rd., Ste 100 Carrollton, Texas 75006 Circle or Specify Method No.) Tel (972) 242-7750 BoAquatic Testing Page ANALYSIS REQUEST REMARKS El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 200 East Sunset Rd., Suite LAB USE × × × × ××× ××× × × ××× × × × ××× 81S08 X3T8 × × M2108 H41 × × × Chlorides 5002 Basin Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313 SAMPLING 3WiJ INST **ў** эт А О rgrubbs@concho.com Bebidas St #1H (432) 661-6601 PRESERVATIVE NONE Ë, × ICE × × × × × × × METHOD  $\times$ × HOBN OSZH Lubbock,Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 5701 Aberdeen Ave, Ste 9 Date: **EONH** HCL Project Name: Company Sampler Signature: SUDDEE MATRIX Phone #: AIA E-mall: Fax#:  $\star$ COIL × × × × × × × × × × Concho **MATER** 1-4-0z-4 oz 4 oz 4 02 4 oz 4 02 4 oz 1 4 oz 1 4 oz 4 oz 1 4 oz Received by: FraceAnalysis, Inc. InuomA\amuloV # CONTAINERS email: lab@traceanalysis.com 600 W. Illinois Ave. Robert Grubbs Jr. Lea County, NM Time: Concho FIELD CODE Date: (Refusal) (Refusal) (Refusal) Company: 9 9-1-9 9 ්ෆ N 'n ñ Ñ N Ň 4 Ė Ξ 23 £3 1-3 2 1-2 7-2 7 Relinquished by: 39303c 92024 92024 343 Wb Project Location: 935092 230P Company Name: Contact Person: 3087 3087 202 **39301**8 292019 3320 (Include state) LAB USE 3201 LAB# ONLY nvoice to: roject#: Address:

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PIOH N bisbnists mort friendflib if emiT bruorA muT ŏ Check If Special Reporting Limits Are Needed 2501 Mayes Rd., Ste 100 Carrollton, Texas 75005 (Circle or Specify Method No.) Tel (972) 242-7750 BioAqualic Testing ANALYSIS REQUEST Dry Weight Basis Required TRRP Report Required 200 East Sunset Rd., Surin E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 "C Headspace Y / N /NA LAB USE Y/N ONLY "CLog-in Review BTEX 8021B × × Märos Hat Intact Chlorides × 5002 Basin Street, Suite A. Midland, Texas 79703 SAMPLING TIME Tel (432) 689-6301 Fax (432) 689-6313 S41-15 14:18085 **3TA**<sub>Q</sub> rgrubbs@concho.com Bebidas St #1H INST COR S02 OBS SBO NST. (432) 661-6601 NONE Time: Fine: ICE **METHOD**  $\times$ × HOSN OS<sup>z</sup>H Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 376-1296 Lubbock, Texas 79424 Dale: СОИН нсг Arallo ! Sampler Signature: Project Name: Company: Company: **STADGE** MATRIX Phone #: E-mall: AIR Fax#: TIOS × × Concho **NATER** 4 oz 4 oz **FraceAnalysis**, Inc. Recaived by Received by: Received by InuomA\amuloV # CONTAINERS email: lab@traceanalysis.com Submittal of samples constitutes agreement to Terms and Conditions 600 W. Illinois Ave. Robert Grubbs Jr. Lea County, NM 91/21 Time: Time: Concho (Overspray Area) 5-2/2-6 Date: FIELD CODE Oale: Date: (Refusal) Company: Company: ö SP-1 7-4 Relinquished by: Relinquished by: Relinquished by: poject Location: 32,020 ompany Name: Contact Person: 3930X Include state) LAB USE LAB# ONLY avoice to: Address: Project #:

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