

APPENDIX D

Laboratory Data Reports & Chain-of-Custody Documents

Report Date: November 24, 2014 Work Order: 14112142 Page Number: 1 of 1

Summary Report

Thomas Franklin APEX/Titan 2351 W. Northwest Hwy. Suite 3321 Dallas, Tx 75220

Report Date: November 24, 2014

Work Order: 14112142

Project Location: Lea County, NM

Project Name: Regency/RR Sims 10" MA-3 Line

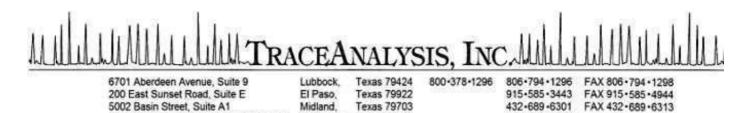
Project Number: 7030714G099

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
380403	NE Side Wall	soil	2014-11-21	12:12	2014-11-21

]	BTEX	TPH DRO - NEW	TPH GRO	
	Benzene Toluene Ethylbenzene Xylene				DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
380403 - NE Side Wall	0.0818	0.0602	0.0706	< 50.0	< 4.00	

Sample: 380403 - NE Side Wall

Param	Flag	Result	Units	RL
Chloride		96.0	m mg/Kg	4



Texas 75006 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Carroliton,

Certifications

NCTRCA DBE**NELAP** DoD LELAP Oklahoma ISO 17025 Kansas

Analytical and Quality Control Report

Thomas Franklin APEX/Titan 2351 W. Northwest Hwy. Suite 3321 Dallas, Tx, 75220

Work Order: 14112142

972-242-7750

Project Location: Lea County, NM

Regency/RR Sims 10" MA-3 Line Project Name:

(BioAquatic) 2501 Mayes Rd., Suite 100

Project Number: 7030714G099

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

			Date	111116	Date
Sample	Description	Matrix	Taken	Taken	Received
380403	NE Side Wall	soil	2014-11-21	12:12	2014-11-21

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.

This report consists of a total of 18 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

Report Date: November 24, 2014

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Case Narrative

Samples for project Regency/RR Sims 10" MA-3 Line were received by TraceAnalysis, Inc. on 2014-11-21 and assigned to work order 14112142. Samples for work order 14112142 were received intact at a temperature of 6.7 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	99299	2014-11-21 at 14:20	117451	2014-11-23 at 08:01
Chloride (Titration)	$\mathrm{SM}\ 4500\text{-}\mathrm{Cl}\ \mathrm{B}$	99308	2014-11-21 at $17:25$	117457	2014-11-22 at 16:48
TPH DRO - NEW	S 8015 D	99311	2014-11-21 at 15:00	117474	2014-11-24 at 11:40
TPH GRO	S 8015 D	99299	2014-11-21 at 14:20	117452	2014-11-23 at 08:03

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 14112142 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: November 24, 2014 Work Order: 14112142 Page Number: 4 of 18 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Analytical Report

Sample: 380403 - NE Side Wall

Laboratory: Midland

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 Sample Preparation: 2014-11-21 Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene		5	0.0818	mg/Kg	1	0.0200
Toluene		5	$\boldsymbol{0.0602}$	mg/Kg	1	0.0200
Ethylbenzene		5	0.0706	mg/Kg	1	0.0200
Xylene		5	0.162	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.98	mg/Kg	1	2.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)			2.18	mg/Kg	1	2.00	109	70 - 130

Sample: 380403 - NE Side Wall

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 117457 Date Analyzed: 2014-11-22 Analyzed By: SC Prep Batch: 99308 Sample Preparation: 2014-11-21 Prepared By: SC

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			96.0	mg/Kg	5	4.00

Sample: 380403 - NE Side Wall

Laboratory: Midland

Analysis: TPH DRO - NEW Analytical Method: Prep Method: S 8015 D N/AQC Batch: 117474 Date Analyzed: 2014-11-24 Analyzed By: SCPrep Batch: 99311 Sample Preparation: 2014-11-21 Prepared By: SC

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
DRO	U	5	< 50.0	mg/Kg	1	50.0

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Lea County, NM

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			118	mg/Kg	1	100	118	70 - 130

Sample: 380403 - NE Side Wall

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 117452 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 Sample Preparation: 2014-11-21 Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
GRO	U	5	< 4.00	mg/Kg	1	4.00

Cumposata	Elo m	Cont	Dogult	Unita	Dilution	Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.83	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.76	mg/Kg	1	2.00	88	70 - 130

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Method Blanks

Method Blank (1) QC Batch: 117451

QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

			MDL		
Parameter	Flag	Cert	Result	Units	RL
Benzene		5	< 0.00533	mg/Kg	0.02
Toluene		5	< 0.00645	mg/Kg	0.02
Ethylbenzene		5	< 0.0116	mg/Kg	0.02
Xvlene		5	< 0.00874	mg/Kg	0.02

						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)			2.24	mg/Kg	1	2.00	112	70 - 130

Method Blank (1) QC Batch: 117452

QC Batch: 117452 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

						$_{ m Spike}$	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)			1.70	mg/Kg	1	2.00	85	70 - 130

Method Blank (1) QC Batch: 117457

QC Batch: 117457 Date Analyzed: 2014-11-22 Analyzed By: SC Prep Batch: 99308 QC Preparation: 2014-11-21 Prepared By: SC

Work Order: 14112142 Regency/RR Sims 10" MA-3 Line Page Number: 7 of 18 Lea County, NM

mg/Kg

SC

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

Method Blank (1) QC Batch: 117474

 $\overline{\mathrm{DRO}}$

QC Batch: 117474Date Analyzed: Analyzed By: SC 2014 - 11 - 24Prep Batch: 99311 QC Preparation: 2014-11-21 Prepared By:

MDLUnits ${\bf Parameter}$ Flag Cert Result RL

< 7.41

•								
						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			109	mg/Kg	1	100	109	70 - 130

Report Date: November 24, 2014 Work Order: 14112142 Page Number: 8 of 18 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	1.71	mg/Kg	1	2.00	< 0.00533	86	70 - 130
Toluene		5	1.80	mg/Kg	1	2.00	< 0.00645	90	70 - 130
Ethylbenzene		5	1.97	mg/Kg	1	2.00	< 0.0116	98	70 - 130
Xylene		5	5.94	mg/Kg	1	6.00	< 0.00874	99	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		5	1.75	mg/Kg	1	2.00	< 0.00533	88	70 - 130	2	20
Toluene		5	1.82	mg/Kg	1	2.00	< 0.00645	91	70 - 130	1	20
Ethylbenzene		5	1.98	mg/Kg	1	2.00	< 0.0116	99	70 - 130	0	20
Xylene		5	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.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.05	2.00	mg/Kg	1	2.00	102	100	70 - 130
4-Bromofluorobenzene (4-BFB)	2.27	2.23	mg/Kg	1	2.00	114	112	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117452 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		5	15.3	mg/Kg	1	20.0	< 2.32	76	70 - 130

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 ...

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			LCSD			Spike	Matrix		Rec.		RPD
Param	F	С	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	${ m Rec.} \ { m Limit}$	RPD	$\begin{array}{c} \mathrm{RPD} \\ \mathrm{Limit} \end{array}$

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

	LCS	LCSD			$_{ m Spike}$	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.78	1.75	mg/Kg	1	2.00	89	88	70 - 130
4-Bromofluorobenzene (4-BFB)	1.66	1.68	mg/Kg	1	2.00	83	84	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117457 Date Analyzed: 2014-11-22 Analyzed By: SC Prep Batch: 99308 QC Preparation: 2014-11-21 Prepared By: SC

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2600	mg/Kg	5	2500	<19.2	104	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	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2600	mg/Kg	5	2500	<19.2	104	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: 117474 Date Analyzed: 2014-11-24 Analyzed By: SC Prep Batch: 99311 QC Preparation: 2014-11-21 Prepared By: SC

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		5	252	mg/Kg	1	250	< 7.41	101	70 - 130

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

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Report Date: November 24, 2014 Work Order: 14112142 Page Number: 10 of 18 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM control spikes continued . . .

$control\ spikes\ continued\ \dots$											
			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			LCSD			$_{\rm Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		5	246	mg/Kg	1	250	< 7.41	98	70 - 130	2	20

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

	LCS	LCSD			$_{ m Spike}$	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	109	109	mg/Kg	1	100	109	109	70 - 130

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Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380216

QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	1.73	mg/Kg	1	2.00	< 0.00533	86	70 - 130
Toluene		5	1.83	mg/Kg	1	2.00	< 0.00645	92	70 - 130
Ethylbenzene		5	1.94	mg/Kg	1	2.00	< 0.0116	97	70 - 130
Xylene		5	5.95	mg/Kg	1	6.00	< 0.00874	99	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	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	1.72	mg/Kg	1	2.00	< 0.00533	86	70 - 130	1	20
Toluene		5	1.80	mg/Kg	1	2.00	< 0.00645	90	70 - 130	2	20
Ethylbenzene		5	1.96	mg/Kg	1	2.00	< 0.0116	98	70 - 130	1	20
Xylene		5	5.98	mg/Kg	1	6.00	< 0.00874	100	70 - 130	0	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)	2.14	1.97	mg/Kg	1	2	107	98	70 - 130
4-Bromofluorobenzene (4-BFB)	2.24	2.25	mg/Kg	1	2	112	112	70 - 130

Matrix Spike (MS-1) Spiked Sample: 380216

QC Batch: 117452 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		5	16.0	mg/Kg	1	20.0	< 2.32	80	70 - 130

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

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matrix spikes continued . . .

-			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			MSD			Spike	Matrix		Rec.		RPD
Param	F	\mathbf{C}	MSD Result	Units	Dil.	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Matrix Result	Rec.	$\begin{array}{c} { m Rec.} \\ { m Limit} \end{array}$	RPD	$\begin{array}{c} \mathrm{RPD} \\ \mathrm{Limit} \end{array}$

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)	1.75	1.80	mg/Kg	1	2	88	90	70 - 130
4-Bromofluorobenzene (4-BFB)	1.71	1.73	mg/Kg	1	2	86	86	70 - 130

Matrix Spike (MS-1) Spiked Sample: 380376

QC Batch: 117457 Date Analyzed: 2014-11-22 Analyzed By: SC Prep Batch: 99308 QC Preparation: 2014-11-21 Prepared By: SC

			MS			$_{ m Spike}$	Matrix		Rec.
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			15500	mg/Kg	5	2500	13000	100	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	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			15600	mg/Kg	5	2500	13000	104	78.9 - 121	1	20

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

Matrix Spike (xMS-1) Spiked Sample: 380313

QC Batch: 117474 Date Analyzed: 2014-11-24 Analyzed By: SC Prep Batch: 99311 QC Preparation: 2014-11-21 Prepared By: SC

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		5	232	mg/Kg	1	250	10.8	88	70 - 130

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

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matrix spikes co	$ntinued \dots$
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			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			MSD			Spike	Matrix		Rec.		RPD
			1.102			Spine	111001111		1000.		101 1
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit

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	123	124	mg/Kg	1	100	123	124	70 - 130

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Lea County, NM

Calibration Standards

Standard (CCV-2)

QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/kg	0.100	0.0965	96	80 - 120	2014-11-23
Toluene		5	$\mathrm{mg/kg}$	0.100	0.100	100	80 - 120	2014-11-23
Ethylbenzene		5	mg/kg	0.100	0.0995	100	80 - 120	2014-11-23
Xylene		5	mg/kg	0.300	0.302	101	80 - 120	2014-11-23

Standard (CCV-3)

QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/kg	0.100	0.0949	95	80 - 120	2014-11-23
Toluene		5	mg/kg	0.100	0.0967	97	80 - 120	2014-11-23
Ethylbenzene		5	mg/kg	0.100	0.0980	98	80 - 120	2014-11-23
Xylene		5	mg/kg	0.300	0.296	99	80 - 120	2014-11-23

Standard (CCV-2)

QC Batch: 117452 Date Analyzed: 2014-11-23 Analyzed By: AK

0017-

				CCVs	CCVs	CCvs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	mg/Kg	1.00	0.917	92	80 - 120	2014-11-23

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COV-

Standard (CCV-3)

QC Batch: 117452 Date Analyzed: 2014-11-23 Analyzed By: AK

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				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	mg/Kg	1.00	0.899	90	80 - 120	2014-11-23

Standard (ICV-1)

QC Batch: 117457 Date Analyzed: 2014-11-22 Analyzed By: SC

				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2014-11-22

Standard (CCV-1)

QC Batch: 117457 Date Analyzed: 2014-11-22 Analyzed By: SC

				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	2014-11-22

Standard (CCV-2)

QC Batch: 117474 Date Analyzed: 2014-11-24 Analyzed By: SC

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		5	mg/Kg	250	253	101	80 - 120	2014-11-24

Standard (CCV-3)

QC Batch: 117474 Date Analyzed: 2014-11-24 Analyzed By: SC

Work Order: 14112142 Regency/RR Sims 10" MA-3 Line

Page Number: 16 of 18

Lea County, NM

CCVs CCVs CCVs Percent True Found Percent Recovery Date Limits Param Flag Cert ${\bf Units}$ Conc. ${\rm Conc.}$ Recovery Analyzed mg/Kg $\overline{\mathrm{DRO}}$ 250 263 105 80 - 120 2014-11-24 Report Date: November 24, 2014 Work Order: 14112142 Page Number: 17 of 18 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Appendix

Report Definitions

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

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

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.

Report Date: November 24, 2014 Work Order: 14112142 Page Number: 18 of 18 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

F Description

Qsr Surrogate recovery outside of laboratory limits.

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

Brandon & Clark 3403 Industrial Blvd. **Hobbs, NM 88240** Tel (575) 392-7561 Fax (575) 392-4508

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Circle of Specify Method BioAquatic Testing 2501 Mayes Rd., Ste 100 Carrollton, Texas 75006 Tel (972) 242-7750 **ANALYSIS REQUEST** Pesticides 8081 / 608 **LCB's 8082 / 608** GC/MS Semi. Vol. 8270 / 625 REMARKS GC/W2 A91' 8560 / 624 **BCI** TCLP Pesticides TCLP Semi Volatiles TCLP Volatiles LAB USE 200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443 TCLP Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 PAH 8270 / 625 **CEH 8015 GRO / DROY TVHC** TPH 418.1 / TX1005 / TX1005 Ext(C35) 80517 602 / 8260 / 624 **BTEX** INST PO 8021 / 602 / 8260 / 624 **HTBE** SAMPLING **3MIT** 5002 Basin Street, Suite A1

Midland, Texas 79703

Tel (432) 689-6301

Fax (432) 689-6313 ONEKOS COM Time: ∃TAØ NONE PRESERVATIVE ICE METHOD bler Signature: NaOH Company: OS^zH Project Name: 6701 Aberdeen Avenue, Suite 9 **Lubbock, Texas 79424**Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296 EONH Phone # HCI E-mail: Received by SCUDGE MATRIX AIA SOIF **A**3TAW JuomA \ emuloV Time: FraceAnalysis, Inc. # CONTAINERS Date: email: lab@traceanalysis.com FIELD CODE Company Street, City, Zip) (including state) (If different from above) LAB Order ID # Relinduished by 7020714 Project Location Thomas Company Name: Hoex Contact Person LAB USE) Invoice to: roject #: 0 LAB# Address:

Turn Around Time if different from standard

003 -0, 002 -0, P04 -P, Alkalinity

Na, Ca, Mg, K, TDS, EC

'⁵os

BOD, TSS, pH

Moisture Content

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C. ONORAL CODY

Dry Weight Basis Required

ONLY

15,02 COR 6,7

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TRRP Report Required

Check If Special Reporting Limits Are Needed

Report Date: November 24, 2014 Work Order: 14112101 Page Number: 1 of 2

Summary Report

Thomas Franklin APEX/Titan 2351 W. Northwest Hwy. Suite 3321

Dallas, Tx 75220

Report Date: November 24, 2014

Work Order: 14112101

Project Location: Lea County, NM

Project Name: Regency/RR Sims 10" MA-3 Line

Project Number: 7030714G099

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
380215	NW Side Wall	soil	2014-11-20	11:27	2014-11-20
380216	Bottom Hole West	soil	2014-11-20	11:27	2014-11-20
380217	SE Side Wall	soil	2014-11-20	12:12	2014-11-20
380218	Bottom Hole East	soil	2014-11-20	12:14	2014-11-20

]	BTEX	TPH DRO - NEW	TPH GRO	
	Benzene	Benzene Toluene Ethylbenzene Xylene			DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
380215 - NW Side Wall	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 4.00
380216 - Bottom Hole West	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 4.00
380217 - SE Side Wall	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 4.00
380218 - Bottom Hole East	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 4.00

Sample: 380215 - NW Side Wall

Param	Flag	Result	Units	RL
Chloride		< 20.0	m mg/Kg	4

Sample: 380216 - Bottom Hole West

Param	Flag	Result	Units	RL
Chloride		99.0	m mg/Kg	4

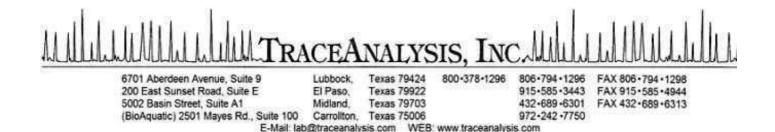
Sample: 380217 - SE Side Wall

Report Date: November 24, 2014 Work Order: 14112101 Page Number: 2 of 2

Param	Flag	Result	Units	RL
Chloride		< 20.0	mg/Kg	4

Sample: 380218 - Bottom Hole East

Param	Flag	Result	Units	RL
Chloride		99.0	m mg/Kg	4



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Thomas Franklin APEX/Titan 2351 W. Northwest Hwy. Suite 3321 Dallas, Tx, 75220

Report Date: November 24, 2014

Work Order: 14112101

Project Location: Lea County, NM

Project Name: Regency/RR Sims 10" MA-3 Line

Project Number: 7030714G099

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
380215	NW Side Wall	soil	2014-11-20	11:27	2014-11-20
380216	Bottom Hole West	soil	2014-11-20	11:27	2014-11-20
380217	SE Side Wall	soil	2014-11-20	12:12	2014-11-20
380218	Bottom Hole East	soil	2014-11-20	12:14	2014-11-20

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.

This report consists of a total of 23 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

Report Contents

Case Narrative	4
Analytical Report Sample 380215 (NW Side Wall) Sample 380216 (Bottom Hole West) Sample 380217 (SE Side Wall) Sample 380218 (Bottom Hole East)	5 6 7 9
QC Batch 117437 - Method Blank (1)	11 11 11 12
QC Batch 117437 - LCS (1) QC Batch 117451 - LCS (1) QC Batch 117452 - LCS (1)	13 13 14 14
QC Batch 117437 - MS (1)	16 16 17 17
QC Batch 117437 - ICV (1) QC Batch 117437 - CCV (2) QC Batch 117451 - CCV (1) QC Batch 117451 - CCV (2) QC Batch 117452 - CCV (1) QC Batch 117452 - CCV (2) QC Batch 117457 - CCV (2)	19 19 19 19 20 20 20
Report Definitions	22 22 22 22

Case Narrative

Samples for project Regency/RR Sims 10" MA-3 Line were received by TraceAnalysis, Inc. on 2014-11-20 and assigned to work order 14112101. Samples for work order 14112101 were received intact at a temperature of 5.9 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	99299	2014-11-21 at 14:20	117451	2014-11-23 at 08:01
Chloride (Titration)	$\mathrm{SM}\ 4500\text{-}\mathrm{Cl}\ \mathrm{B}$	99288	2014-11-21 at 09:50	117437	2014-11-21 at 14:34
TPH DRO - NEW	S 8015 D	99286	2014-11-21 at 14:04	117467	2014-11-24 at $10:51$
TPH GRO	S 8015 D	99299	2014-11-21 at 14:20	117452	2014-11-23 at 08:03

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 14112101 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: November 24, 2014 Work Order: 14112101 Page Number: 5 of 23 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Analytical Report

Sample: 380215 - NW Side Wall

Laboratory: Midland

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 Sample Preparation: 2014-11-21 Prepared By: AK

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

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.00	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.19	mg/Kg	1	2.00	110	70 - 130

Sample: 380215 - NW Side Wall

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 117437 Date Analyzed: 2014-11-21 Analyzed By: AK Prep Batch: 99288 Sample Preparation: 2014-11-21 Prepared By: AK

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

Sample: 380215 - NW Side Wall

Laboratory: Midland

Analysis: TPH DRO - NEW Analytical Method: Prep Method: S 8015 D N/AQC Batch: 117467 Date Analyzed: 2014-11-24 Analyzed By: SCPrep Batch: 99286 Sample Preparation: Prepared By: SC

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

Work Order: 14112101 Regency/RR Sims 10" MA-3 Line

Page Number: 6 of 23

Lea County, NM

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			108	mg/Kg	1	100	108	70 - 130

Sample: 380215 - NW Side Wall

Laboratory: Midland

S 5035 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: QC Batch: 117452Date Analyzed: 2014-11-23 Analyzed By: AKPrep Batch: 99299 Sample Preparation: Prepared By: AK2014-11-21

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
GRO	U	1	< 4.00	mg/Kg	1	4.00

						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)			1.66	mg/Kg	1	2.00	83	70 - 130

Sample: 380216 - Bottom Hole West

Laboratory: Midland

Analysis: BTEXAnalytical Method: S 8021B Prep Method: S 5035 QC Batch: 117451 Date Analyzed: 2014 - 11 - 23Analyzed By: AKPrep Batch: 99299 Sample Preparation: 2014-11-21 Prepared By: AK

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

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.11	mg/Kg	1	2.00	106	70 - 130
4-Bromofluorobenzene (4-BFB)			2.22	mg/Kg	1	2.00	111	70 - 130

Report Date: November 24, 2014 Work Order: 14112101 Page Number: 7 of 23
7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Sample: 380216 - Bottom Hole West

Laboratory: Midland

Chloride (Titration) Analysis: Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 117437 Date Analyzed: 2014-11-21 Analyzed By: AK Sample Preparation: Prep Batch: 99288 2014-11-21 Prepared By: AK

Sample: 380216 - Bottom Hole West

Laboratory: Midland

Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/AQC Batch: Analyzed By: SC117467 Date Analyzed: 2014-11-24 Prep Batch: 99286 Sample Preparation: Prepared By: SC

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

Sample: 380216 - Bottom Hole West

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 117452 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 Sample Preparation: Prepared By: 2014-11-21 AK

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.88	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.66	mg/Kg	1	2.00	83	70 - 130

Report Date: November 24, 2014 Work Order: 14112101 Page Number: 8 of 23 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Sample: 380217 - SE Side Wall

Laboratory: Midland

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 Sample Preparation: 2014-11-21 Prepared By: AK

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

						$_{ m Spike}$	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.07	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			2.20	mg/Kg	1	2.00	110	70 - 130

Sample: 380217 - SE Side Wall

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 117437 Date Analyzed: 2014-11-21 Analyzed By: AKPrepared By: Prep Batch: 99288 Sample Preparation: AK2014-11-21

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	U		< 20.0	$\mathrm{mg/Kg}$	5	4.00

Sample: 380217 - SE Side Wall

Laboratory: Midland

TPH DRO - NEW Analysis: Analytical Method: S 8015 D Prep Method: N/AQC Batch: 117467 Date Analyzed: 2014-11-24 Analyzed By: SCPrep Batch: 99286 Sample Preparation: Prepared By: SC

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

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

Report Date: November 24, 2014 Work Order: 14112101 Page Number: 9 of 23 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Sample: 380217 - SE Side Wall

Laboratory: Midland

S 5035 Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: QC Batch: 117452 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 Sample Preparation: 2014-11-21 Prepared By: AK

						$_{ m Spike}$	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)			1.67	mg/Kg	1	2.00	84	70 - 130

Sample: 380218 - Bottom Hole East

Laboratory: Midland

Analysis: **BTEX** Analytical Method: S_{8021B} Prep Method: S 5035 QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK2014-11-21 Prep Batch: 99299 Sample Preparation: Prepared By: AK

RLParameter Flag Cert Result Units Dilution RL0.0200 Benzene < 0.0200 mg/Kg 1 U 1 Toluene < 0.0200 mg/Kg1 0.0200 U 0.0200Ethylbenzene < 0.0200 mg/Kg1 U Xylene < 0.0200 mg/Kg1 0.0200

	T.I.	Q .	D 1	TT	Dil .	Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.12	mg/Kg	1	2.00	106	70 - 130
4-Bromofluorobenzene (4-BFB)			2.15	mg/Kg	1	2.00	108	70 - 130

Sample: 380218 - Bottom Hole East

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 117437 Date Analyzed: 2014-11-21 Analyzed By: AK Prep Batch: 99288 Sample Preparation: 2014-11-21 Prepared By: AK

 $\overline{continued}$. . .

Work Order: 14112101 Regency/RR Sims 10" MA-3 Line

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sample 380218 continued ...

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			99.0	m mg/Kg	5	4.00

Sample: 380218 - Bottom Hole East

Laboratory: Midland

Analysis: TPH DRO - NEW Analytical Method: S 8015 D QC Batch: 117467 Date Analyzed: 2014-11-24 Prep Batch: 99286 Sample Preparation:

Analyzed By: SC Prepared By: SC

Prep Method: N/A

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			104	mg/Kg	1	100	104	70 - 130

Sample: 380218 - Bottom Hole East

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 117452Date Analyzed: 2014-11-23 Analyzed By: AKPrep Batch: Sample Preparation: Prepared By: 99299 2014-11-21AK

						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)			1.62	mg/Kg	1	2.00	81	70 - 130

Report Date: November 24, 2014 Work Order: 14112101 Page Number: 11 of 23 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Method Blanks

Method Blank (1) QC Batch: 117437

QC Batch: 117437 Date Analyzed: 2014-11-21 Analyzed By: AK Prep Batch: 99288 QC Preparation: 2014-11-21 Prepared By: AK

			MDL		
Parameter	Flag	Cert	Result	Units	RL
Chloride			< 3.85	$\mathrm{mg/Kg}$	4

Method Blank (1) QC Batch: 117451

QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

			MDL		
Parameter	Flag	Cert	Result	Units	RL
Benzene		1	< 0.00533	mg/Kg	0.02
Toluene		1	< 0.00645	mg/Kg	0.02
Ethylbenzene		1	< 0.0116	mg/Kg	0.02
Xvlene		1	< 0.00874	m mg/Kg	0.02

						$_{ m Spike}$	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)			2.24	mg/Kg	1	2.00	112	70 - 130

Method Blank (1) QC Batch: 117452

QC Batch: 117452 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

Work Order: 14112101 Regency/RR Sims 10" MA-3 Line

Page Number: 12 of 23

Lea County, NM

						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)			1.70	mg/Kg	1	2.00	85	70 - 130

Method Blank (1) QC Batch: 117467

QC Batch: 117467 Date Analyzed: 2014-11-24 Analyzed By: SC Prep Batch: 99286 QC Preparation: 2014-11-21 Prepared By: SC

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			97.7	mg/Kg	1	100	98	70 - 130

Report Date: November 24, 2014 Work Order: 14112101 Page Number: 13 of 23 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117437 Date Analyzed: 2014-11-21 Analyzed By: AK Prep Batch: 99288 QC Preparation: 2014-11-21 Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2660	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	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2660	mg/Kg	5	2500	<19.2	106	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: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		1	1.71	mg/Kg	1	2.00	< 0.00533	86	70 - 130
Toluene		1	1.80	mg/Kg	1	2.00	< 0.00645	90	70 - 130
Ethylbenzene		1	1.97	mg/Kg	1	2.00	< 0.0116	98	70 - 130
Xylene		1	5.94	mg/Kg	1	6.00	< 0.00874	99	70 - 130

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

			LCSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		1	1.75	mg/Kg	1	2.00	< 0.00533	88	70 - 130	2	20
Toluene		1	1.82	mg/Kg	1	2.00	< 0.00645	91	70 - 130	1	20
Ethylbenzene		1	1.98	mg/Kg	1	2.00	< 0.0116	99	70 - 130	0	20
Xylene		1	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.

 $continued \dots$

Report Date: November 24, 2014 7030714G099

Work Order: 14112101 Regency/RR Sims 10" MA-3 Line

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)	2.05	2.00	mg/Kg	1	2.00	102	100	70 - 130
4-Bromofluorobenzene (4-BFB)	2.27	2.23	mg/Kg	1	2.00	114	112	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117452 Prep Batch: 99299 Date Analyzed: 2014-11-23 QC Preparation: 2014-11-21 Analyzed By: AK Prepared By: AK

Page Number: 14 of 23

Lea County, NM

			LCS			Spike	Matrix		Rec.
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		1	15.3	mg/Kg	1	20.0	< 2.32	76	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		1	15.3	mg/Kg	1	20.0	< 2.32	76	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)	1.78	1.75	mg/Kg	1	2.00	89	88	70 - 130
4-Bromofluorobenzene (4-BFB)	1.66	1.68	mg/Kg	1	2.00	83	84	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117467 Prep Batch: 99286 Date Analyzed: 2014-11-24 QC Preparation: 2014-11-21 Analyzed By: SC Prepared By: SC

			LCS			$_{ m Spike}$	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1	232	mg/Kg	1	250	< 7.41	93	70 - 130

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

 $continued \dots$

Report Date: November 24, 2014 7030714G099

Param

 $\overline{\mathrm{DRO}}$

Work Order: 14112101 Regency/RR Sims 10" MA-3 Line

Amount

250

Result

< 7.41

 ${\rm Rec.}$

98

Limit

70 - 130

Page Number: 15 of 23

RPD

5

 ${\bf Limit}$

20

Lea County, NM

control spikes continued											
•			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			LCSD			Spike	Matrix		Rec.		RPD

Dil.

 ${\bf Units}$

mg/Kg

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

Result

244

F C

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	104	106	mg/Kg	1	100	104	106	70 - 130

Report Date: November 24, 2014 Work Order: 14112101 Page Number: 16 of 23 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380198

QC Batch: 117437 Date Analyzed: 2014-11-21 Analyzed By: AK Prep Batch: 99288 QC Preparation: 2014-11-21 Prepared By: AK

			MS			$_{ m Spike}$	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2760	mg/Kg	5	2500	99	106	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	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2710	mg/Kg	5	2500	99	104	78.9 - 121	2	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: 380216

QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		1	1.73	mg/Kg	1	2.00	< 0.00533	86	70 - 130
Toluene		1	1.83	mg/Kg	1	2.00	< 0.00645	92	70 - 130
Ethylbenzene		1	1.94	mg/Kg	1	2.00	< 0.0116	97	70 - 130
Xylene		1	5.95	mg/Kg	1	6.00	< 0.00874	99	70 - 130

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

			MSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		1	1.72	mg/Kg	1	2.00	< 0.00533	86	70 - 130	1	20
Toluene		1	1.80	mg/Kg	1	2.00	< 0.00645	90	70 - 130	2	20
Ethylbenzene		1	1.96	mg/Kg	1	2.00	< 0.0116	98	70 - 130	1	20
Xylene		1	5.98	mg/Kg	1	6.00	< 0.00874	100	70 - 130	0	20

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

 $continued \dots$

Report Date: November 24, 2014 7030714G099

Work Order: 14112101

Page Number: 17 of 23 Regency/RR Sims 10" MA-3 Line Lea County, NM

matrix spikes continued ...

Surrogate	$rac{MS}{Result}$	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.14	1.97	mg/Kg	1	2	107	98	70 - 130
4-Bromofluorobenzene (4-BFB)	2.24	2.25	mg/Kg	1	2	112	112	70 - 130

Matrix Spike (MS-1) Spiked Sample: 380216

QC Batch: 117452Date Analyzed: 2014 - 11 - 23Analyzed By: AK Prep Batch: 99299 QC Preparation: 2014-11-21 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		1	16.0	mg/Kg	1	20.0	< 2.32	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	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		1	17.8	mg/Kg	1	20.0	< 2.32	89	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
Trifluorotoluene (TFT)	1.75	1.80	mg/Kg	1	2	88	90	70 - 130
4-Bromofluorobenzene (4-BFB)	1.71	1.73	mg/Kg	1	2	86	86	70 - 130

Matrix Spike (xMS-1) Spiked Sample: 380198

QC Batch: Date Analyzed: 117467 2014-11-24 Analyzed By: SC Prep Batch: 99286 QC Preparation: 2014-11-21 Prepared By: SC

			MS			$_{ m Spike}$	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		1	259	mg/Kg	1	250	< 7.41	104	70 - 130

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

 $continued \dots$

Report Date: November 24, 2014

Work Order: 14112101 Regency/RR Sims 10" MA-3 Line Page Number: 18 of 23

7030714G099 Lea County, NM

			MSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		1	237	mg/Kg	1	250	< 7.41	95	70 - 130	9	20

	MS	MSD			Spike	$_{ m MS}$	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	105	102	mg/Kg	1	100	105	102	70 - 130

Report Date: November 24, 2014 7030714G099

 Page Number: 19 of 23

Lea County, NM

Calibration Standards

Standard (ICV-1)

QC Batch: 117437 Date Analyzed: 2014-11-21 Analyzed By: AK

				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2014-11-21

Standard (CCV-2)

QC Batch: 117437 Date Analyzed: 2014-11-21 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	2014-11-21

Standard (CCV-1)

QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		1	mg/kg	0.100	0.0982	98	80 - 120	2014-11-23
Toluene		1	mg/kg	0.100	0.0992	99	80 - 120	2014-11-23
Ethylbenzene		1	mg/kg	0.100	0.0997	100	80 - 120	2014-11-23
Xylene		1	mg/kg	0.300	0.300	100	80 - 120	2014-11-23

Standard (CCV-2)

QC Batch: 117451 Date Analyzed: 2014-11-23 Analyzed By: AK

Report Date: November 24, 2014 7030714G099

Work Order: 14112101 Regency/RR Sims 10" MA-3 Line Page Number: 20 of 23

Lea County, NM

				CCVs True	CCVs Found	CCVs Percent	Percent	Date
				rrue	round	rercent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		1	mg/kg	0.100	0.0965	96	80 - 120	2014-11-23
Toluene		1	mg/kg	0.100	0.100	100	80 - 120	2014-11-23
Ethylbenzene		1	mg/kg	0.100	0.0995	100	80 - 120	2014-11-23
Xylene		1	mg/kg	0.300	0.302	101	80 - 120	2014-11-23

Standard (CCV-1)

QC Batch: 117452 Date Analyzed: 2014-11-23 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	0.922	92	80 - 120	2014-11-23

Standard (CCV-2)

QC Batch: 117452Date Analyzed: 2014-11-23 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	0.917	92	80 - 120	2014-11-23

Standard (CCV-1)

QC Batch: 117467 Date Analyzed: 2014-11-24 Analyzed By: SC

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	255	102	80 - 120	2014-11-24

Standard (CCV-2)

QC Batch: 117467 Analyzed By: SC Date Analyzed: 2014-11-24

Report Date: November 24, 2014 7030714G099

Work Order: 14112101 Regency/RR Sims 10" MA-3 Line Page Number: 21 of 23

Lea County, NM CCVsCCVs

				CCVS	CCVS	CCVS	rercent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		1	mg/Kg	250	233	93	80 - 120	2014-11-24

Report Date: November 24, 2014 Work Order: 14112101 Page Number: 22 of 23 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Appendix

Report Definitions

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

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	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

Attachments

Report Date: November 24, 2014 Work Order: 14112101 Page Number: 23 of 23 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-3494 1 (888) 588-3443 5002 Basin Street, Suite A1

Midland, Texas 79703

Tel (432) 689-6301

Fax (432) 689-6313 970-7563 6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1298 Phone #: √33 fraceAnalysis, Inc. email: lab@traceanalysis.com Address: (Street, City, Zip) Sompany Name

S

SAMA

Big

SOS N Contact Person:

Thomas

Invoice to:

GARNEY

(If different from above)

Project #:

70307 14年の99 Project Location (including state)

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BioAquatic Testing 2501 Mayes Rd., Ste 100 **Carrollton, Texas 75006** Tel (972) 242-7750

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Page_

Brandon & Clark 3403 Industrial Blvd. **Hobbs, NM 88240** Tel (575) 392-7561 Fax (575) 392-4508

7 Turn Around Time if different from standard >Ź allow X Na, Ca, Mg, K, TDS, EC Circle of Specify Nethod 103 -10, 1102 -10, 1204 -12, Alkalinity Cl' E' 20[†] Moisture Content **ANALYSIS REQUEST** BOD, TSS, pH Pesticides 8081 / 608 **bCB**,2 8082 \ 608 GC/MS Semi. Vol. 8270 / 625 GC/W2 API 8560 / 624 RCI TCLP Pesticides TCLP Semi Volatiles TCLP Volatiles TCLP Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 PAH 8270 / 625 OPH 8015 GRO / DRO)/ TVHC X TPH 418.1 / TX1005 / TX1005 Ext(C35) 8021/ 602 / 8260 / 624 X₃TEX **BATM** 8021 / 602 / 8260 / 624 12:14 11:37 19:12 SAMPLING **TIME** 2 DATE 202 In @ GOEXUSS. MA-3 NONE PRESERVATIVE > METHOD ICE 9 NaOH Sampler Signature DS2H Project Name: HAO3 S. F. S. HCI Hran E-mail SLUDGE MATRIX AIR ROIL Rosenes **MATER** Services 70 JulomA \ AmuloV > # CONTAINERS

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SOC RECIPE

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O.

Report Date: December 1, 2014 Work Order: 14112523 Page Number: 1 of 2

Summary Report

(Corrected Report)

Thomas Franklin APEX/Titan 2351 W. Northwest Hwy. Suite 3321 Dallas, Tx 75220

Report Date: December 1, 2014

Work Order: 14112523

Project Location: Lea County, NM

Project Name: Regency/RR Sims 10" MA-3 Line

Project Number: 7030714G099

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
380703	NW Side Wall 2	soil	2014-11-25	11:05	2014-11-25
380704	SW Side Wall	soil	2014-11-25	11:00	2014-11-25
380705	SE Side Wall 2	soil	2014-11-25	10:55	2014-11-25

	BTEX				TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	$(\mathrm{mg}/\mathrm{Kg})$	(mg/Kg)
380703 - NW Side Wall 2	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 4.00
380704 - SW Side Wall	0.0831	0.0758	0.0897	0.222	< 50.0	< 4.00
380705 - SE Side Wall 2	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 4.00

Sample: 380703 - NW Side Wall 2

Param	Flag	Result	Units	RL
Chloride		50.0	mg/Kg	4

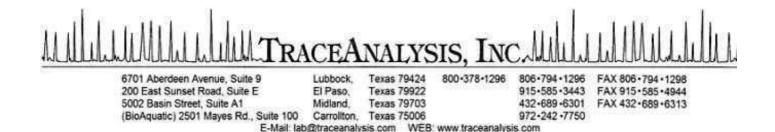
Sample: 380704 - SW Side Wall

Param	Flag	Result	Units	RL
Chloride		250	m mg/Kg	4

Sample: 380705 - SE Side Wall 2

Report Date: December 1, 2014 Work Order: 14112523 Page Number: 2 of 2

Param	Flag	Result	Units	RL
Chloride		< 20.0	m mg/Kg	4



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

(Corrected Report)

Thomas Franklin APEX/Titan 2351 W. Northwest Hwy. Suite 3321 Dallas, Tx, 75220

Report Date: December 1, 2014

Work Order: 14112523

Project Location: Lea County, NM

Project Name: Regency/RR Sims 10" MA-3 Line

Project Number: 7030714G099

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
380703	NW Side Wall 2	soil	2014-11-25	11:05	2014-11-25
380704	SW Side Wall	soil	2014-11-25	11:00	2014-11-25
380705	SE Side Wall 2	soil	2014-11-25	10:55	2014-11-25

Report Corrections (Work Order 14112523)

• 12/1/14: Corrected sample 380705 description.

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.

This report consists of a total of 20 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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Case Narrative

Samples for project Regency/RR Sims 10" MA-3 Line were received by TraceAnalysis, Inc. on 2014-11-25 and assigned to work order 14112523. Samples for work order 14112523 were received intact at a temperature of 5.9 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	99379	2014-11-25 at 15:00	117548	2014-11-26 at 08:36
Chloride (Titration)	SM 4500-Cl B	99377	2014-11-26 at 07:48	117562	2014-11-26 at 10:53
TPH DRO - NEW	S 8015 D	99378	2014-11-25 at 15:51	117547	2014-11-26 at 08:19
TPH GRO	S 8015 D	99379	2014-11-25 at 15:00	117550	2014-11-26 at 08:39

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 14112523 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: December 1, 2014 Work Order: 14112523 Page Number: 5 of 20 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Analytical Report

Sample: 380703 - NW Side Wall 2

Laboratory: Midland

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035 QC Batch: 117548 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: 99379 Sample Preparation: 2014-11-25 Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	5	< 0.0200	m mg/Kg	1	0.0200
Toluene	U	5	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	5	< 0.0200	mg/Kg	1	0.0200
Xylene	U	5	< 0.0200	mg/Kg	1	0.0200

						$_{ m Spike}$	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.84	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			2.10	mg/Kg	1	2.00	105	70 - 130

Sample: 380703 - NW Side Wall 2

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 117562 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: 99377 Sample Preparation: 2014-11-26 Prepared By: AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			50.0	$\mathrm{mg/Kg}$	5	4.00

Sample: 380703 - NW Side Wall 2

Laboratory: Midland

Analysis: TPH DRO - NEW Analytical Method: Prep Method: S 8015 D N/AQC Batch: Date Analyzed: 2014-11-26 Analyzed By: SC117547 Prep Batch: 99378 Sample Preparation: 2014-11-25 Prepared By: SC

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
DRO	U	5	< 50.0	mg/Kg	1	50.0

Report Date: December 1, 2014 7030714G099

Work Order: 14112523 Regency/RR Sims 10" MA-3 Line

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Lea County, NM

70 - 130

						$_{ m Spike}$	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits

mg/Kg

124

Sample: 380703 - NW Side Wall 2

Laboratory: Midland

n-Tricosane

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 117550Date Analyzed: 2014 - 11 - 26Analyzed By: AKPrep Batch: 99379 Sample Preparation: Prepared By: 2014-11-25 AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
GRO	IJ	5	< 4.00	mg/Kg	1	4.00

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.61	mg/Kg	1	2.00	80	70 - 130

Sample: 380704 - SW Side Wall

Laboratory: Midland

Analysis: BTEXAnalytical Method: S 8021B Prep Method: S 5035 QC Batch: 117548 Date Analyzed: 2014 - 11 - 26Analyzed By: AKPrep Batch: 99379 Sample Preparation: Prepared By: 2014-11-25 AK

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene		5	0.0831	m mg/Kg	1	0.0200
Toluene		5	0.0758	mg/Kg	1	0.0200
Ethylbenzene		5	0.0897	mg/Kg	1	0.0200
Xylene		5	0.222	mg/Kg	1	0.0200

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.88	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			2.11	mg/Kg	1	2.00	106	70 - 130

Sample: 380704 - SW Side Wall Laboratory: Midland Chloride (Titration) Analysis: Analytical Method: SM 4500-Cl B Prep Method: N/AQC Batch: 117562 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: 99377 Sample Preparation: 2014-11-26 Prepared By: AK RLParameter Cert Result Dilution Flag Units RLChloride $\overline{250}$ 5 4.00 mg/Kg Sample: 380704 - SW Side Wall Midland Laboratory: Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/AQC Batch: SC117547 Date Analyzed: 2014-11-26 Analyzed By: Prep Batch: 99378 Sample Preparation: 2014-11-25 Prepared By: SCRLFlag Cert Result Dilution RLParameter Units $\overline{\mathrm{DRO}}$ < 50.0 mg/Kg 1 50.0 5 Spike Percent Recovery Surrogate Flag Cert Result Units Dilution Amount Recovery Limits 70 - 130 n-Tricosane 123 mg/Kg 1 100 123 Sample: 380704 - SW Side Wall Laboratory: Midland Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 117550 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: Sample Preparation: 99379 2014-11-25 Prepared By: AK RLDilution Parameter Flag Cert Result Units RLGRO < 4.00mg/Kg 4.00 Spike Percent Recovery Surrogate Flag Cert Result Units Dilution Amount Recovery Limits

1.78

1.68

mg/Kg

mg/Kg

1

1

2.00

2.00

89

84

70 - 130

70 - 130

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Regency/RR Sims 10" MA-3 Line

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Report Date: December 1, 2014

7030714G099

Trifluorotoluene (TFT)

4-Bromofluorobenzene (4-BFB)

Report Date: December 1, 2014 Work Order: 14112523 Page Number: 8 of 20 7030714G099Regency/RR Sims 10" MA-3 Line Lea County, NM

Sample: 380705 - SE Side Wall 2

Laboratory: Midland

BTEX Prep Method: S 5035 Analysis: Analytical Method: S 8021BQC Batch: 117548 Date Analyzed: 2014-11-26 Analyzed By: Prep Batch: 99379 Sample Preparation: 2014-11-25 Prepared By:

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Benzene	U	5	< 0.0200	m mg/Kg	1	0.0200
Toluene	U	5	< 0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	5	< 0.0200	mg/Kg	1	0.0200
Xylene	U	5	< 0.0200	mg/Kg	1	0.0200

AK

AK

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.68	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130

Sample: 380705 - SE Side Wall 2

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 117562Date Analyzed: 2014-11-26 Analyzed By: AKPrep Batch: 99377 Sample Preparation: Prepared By: AK2014-11-26

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

Sample: 380705 - SE Side Wall 2

Laboratory: Midland

TPH DRO - NEW Analysis: Analytical Method: S 8015 D Prep Method: N/A QC Batch: 117547 Date Analyzed: 2014-11-26 Analyzed By: SCPrep Batch: 99378 Sample Preparation: 2014 - 11 - 25Prepared By: SC

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
DRO	U	5	< 50.0	mg/Kg	1	50.0

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			126	mg/Kg	1	100	126	70 - 130

Report Date: December 1, 2014 Work Order: 14112523 Page Number: 9 of 20 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Sample: 380705 - SE Side Wall 2

Laboratory: Midland

Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035 QC Batch: 117550 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: 99379 Sample Preparation: 2014-11-25 Prepared By: AK

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.79	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.56	mg/Kg	1	2.00	78	70 - 130

Report Date: December 1, 2014 Work Order: 14112523 Page Number: 10 of 20 7030714G099 Regency/RR Sims 10" MA-3 Line Lea County, NM

Method Blanks

Method Blank (1) QC Batch: 117547

QC Batch: 117547 Date Analyzed: 2014-11-26 Analyzed By: SC Prep Batch: 99378 QC Preparation: 2014-11-25 Prepared By: SC

						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane			118	mg/Kg	1	100	118	70 - 130

Method Blank (1) QC Batch: 117548

QC Batch: 117548 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: 99379 QC Preparation: 2014-11-25 Prepared By: AK

MDL Parameter Cert Result Units RLFlag Benzene 0.02 < 0.00533 mg/Kg 5 Toluene < 0.00645 mg/Kg 0.025 Ethylbenzene mg/Kg0.02 < 0.0116 5 Xylene < 0.00874 mg/Kg0.02

						$_{ m Spike}$	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)			2.13	mg/Kg	1	2.00	106	70 - 130

Method Blank (1) QC Batch: 117550

QC Batch: 117550 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: 99379 QC Preparation: 2014-11-25 Prepared By: AK

Report Date: December 1, 2014

4-Bromofluorobenzene (4-BFB)

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mg/Kg

2.00

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81

Donormoton	Ela m		Cont		MDL Result		Units	DI
Parameter	Flag		Cert		Result		Units	RL
GRO			5		< 2.32		mg/Kg	4
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.84	mg/Kg	1	2.00	92	70 - 130

1.62

Method Blank (1) QC Batch: 117562

 QC Batch:
 117562
 Date Analyzed:
 2014-11-26

 Prep Batch:
 99377
 QC Preparation:
 2014-11-26

Analyzed By: AK Prepared By: AK

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117547 Date Analyzed: 2014-11-26 Analyzed By: SC Prep Batch: 99378 QC Preparation: 2014-11-25 Prepared By: SC

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		5	264	mg/Kg	1	250	< 7.41	106	70 - 130

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

			LCSD			$_{\rm Spike}$	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		5	280	mg/Kg	1	250	< 7.41	112	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	116	118	mg/Kg	1	100	116	118	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117548 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: 99379 QC Preparation: 2014-11-25 Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	1.70	mg/Kg	1	2.00	< 0.00533	85	70 - 130
Toluene		5	1.75	mg/Kg	1	2.00	< 0.00645	88	70 - 130
Ethylbenzene		5	1.84	mg/Kg	1	2.00	< 0.0116	92	70 - 130
Xylene		5	5.72	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.

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	1.70	mg/Kg	1	2.00	< 0.00533	85	70 - 130	0	20
Toluene		5	1.73	mg/Kg	1	2.00	< 0.00645	86	70 - 130	1	20
Ethylbenzene		5	1.88	mg/Kg	1	2.00	< 0.0116	94	70 - 130	2	20
Xylene		5	5.71	mg/Kg	1	6.00	< 0.00874	95	70 - 130	0	20

Report Date: December 1, 2014

4-Bromofluorobenzene (4-BFB)

Work Order: 14112523 Regency/RR Sims 10" MA-3 Line

mg/Kg

mg/Kg

1

1

2.00

2.00

7030714G099	Regeno	ey/RR Sim	Lea County, NM					
Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec.

1.87

2.18

Laboratory Control Spike (LCS-1)

117550 QC Batch: Prep Batch: 99379

Trifluorotoluene (TFT)

Date Analyzed: 2014-11-26QC Preparation: 2014-11-25 Analyzed By: AK Prepared By: AK

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70 - 130

70 - 130

94

109

94

114

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		5	14.9	mg/Kg	1	20.0	< 2.32	74	70 - 130

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

1.89

2.29

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		5	15.3	mg/Kg	1	20.0	< 2.32	76	70 - 130	3	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)	1.74	1.76	mg/Kg	1	2.00	87	88	70 - 130
4-Bromofluorobenzene (4-BFB)	1.70	1.65	mg/Kg	1	2.00	85	82	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117562Date Analyzed: Analyzed By: AK 2014-11-26 Prep Batch: 99377 QC Preparation: 2014-11-26 Prepared By: AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			2600	mg/Kg	5	2500	<19.2	104	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	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2550	mg/Kg	5	2500	<19.2	102	85 - 115	2	20

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Matrix Spikes

Matrix Spike (xMS-1) Spiked Sample: 380374

QC Batch: 117547 Date Analyzed: 2014-11-26 Analyzed By: SC Prep Batch: 99378 QC Preparation: 2014-11-25 Prepared By: SC

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		5	220	mg/Kg	1	250	< 7.41	88	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
DRO		5	235	mg/Kg	1	250	< 7.41	94	70 - 130	7	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	123	121	mg/Kg	1	100	123	121	70 - 130

Matrix Spike (MS-1) Spiked Sample: 380429

QC Batch: 117548 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: 99379 QC Preparation: 2014-11-25 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	1.71	mg/Kg	1	2.00	< 0.00533	86	70 - 130
Toluene		5	1.77	mg/Kg	1	2.00	< 0.00645	88	70 - 130
Ethylbenzene		5	1.92	mg/Kg	1	2.00	< 0.0116	96	70 - 130
Xylene		5	5.76	mg/Kg	1	6.00	< 0.00874	96	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		5	1.65	mg/Kg	1	2.00	< 0.00533	82	70 - 130	4	20
Toluene		5	1.71	mg/Kg	1	2.00	< 0.00645	86	70 - 130	3	20
Ethylbenzene		5	1.82	mg/Kg	1	2.00	< 0.0116	91	70 - 130	5	20
Xylene		5	5.60	mg/Kg	1	6.00	< 0.00874	93	70 - 130	3	20

Report Date: December 1, 2014

 $7030714G099 \hspace{35mm} Regency/RR \hspace{1mm} Sims \hspace{1mm} 10" \hspace{1mm} MA-3 \hspace{1mm} Line$

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	MS	MSD			$_{ m Spike}$	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.86	1.87	mg/Kg	1	2	93	94	70 - 130
4-Bromofluorobenzene (4-BFB)	2.15	2.16	mg/Kg	1	2	108	108	70 - 130

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Matrix Spike (MS-1) Spiked Sample: 380704

QC Batch: 117550 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: 99379 QC Preparation: 2014-11-25 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		5	15.4	mg/Kg	1	20.0	< 2.32	77	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
GRO		5	15.3	mg/Kg	1	20.0	< 2.32	76	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	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.73	1.70	mg/Kg	1	2	86	85	70 - 130
4-Bromofluorobenzene (4-BFB)	1.71	1.70	mg/Kg	1	2	86	85	70 - 130

Matrix Spike (MS-1) Spiked Sample: 380761

QC Batch: 117562 Date Analyzed: 2014-11-26 Analyzed By: AK Prep Batch: 99377 QC Preparation: 2014-11-26 Prepared By: AK

			MS			Spike	Matrix		Rec.
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			12900	mg/Kg	5	2500	10000	116	78.9 - 121

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

			MSD			$_{\mathrm{Spike}}$	Matrix		Rec.		RPD
Param	F	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			13000	mg/Kg	5	2500	10000	120	78.9 - 121	1	20

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Lea County, NM

Calibration Standards

Standard (CCV-1)

QC Batch: 117547 Date Analyzed: 2014-11-26 Analyzed By: SC

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		5	mg/Kg	250	252	101	80 - 120	2014-11-26

Standard (CCV-2)

QC Batch: 117547 Date Analyzed: 2014-11-26 Analyzed By: SC

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		5	mg/Kg	250	267	107	80 - 120	2014-11-26

Standard (CCV-1)

QC Batch: 117548 Date Analyzed: 2014-11-26 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/kg	0.100	0.0961	96	80 - 120	2014-11-26
Toluene		5	mg/kg	0.100	0.0970	97	80 - 120	2014-11-26
Ethylbenzene		5	$\mathrm{mg/kg}$	0.100	0.0973	97	80 - 120	2014-11-26
Xylene		5	mg/kg	0.300	0.293	98	80 - 120	2014-11-26

Standard (CCV-2)

QC Batch: 117548 Date Analyzed: 2014-11-26 Analyzed By: AK

Report Date: December 1, 2014 7030714G099

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene	0	5	mg/kg	0.100	0.0963	96	80 - 120	2014-11-26
Toluene		5	mg/kg	0.100	0.0963	96	80 - 120	2014-11-26
Ethylbenzene		5	mg/kg	0.100	0.0962	96	80 - 120	2014-11-26
Xylene		5	mg/kg	0.300	0.287	96	80 - 120	2014-11-26

Standard (CCV-1)

QC Batch: 117550 Date Analyzed: 2014-11-26 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	mg/Kg	1.00	0.826	83	80 - 120	2014-11-26

Standard (CCV-2)

QC Batch: 117550 Date Analyzed: 2014-11-26 Analyzed By: AK

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	mg/Kg	1.00	0.856	86	80 - 120	2014-11-26

Standard (ICV-1)

QC Batch: 117562 Date Analyzed: 2014-11-26 Analyzed By: AK

				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	102	102	85 - 115	2014-11-26

Standard (CCV-1)

QC Batch: 117562 Date Analyzed: 2014-11-26 Analyzed By: AK

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				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			mg/Kg	100	98.0	98	85 - 115	2014-11-26

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Appendix

Report Definitions

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

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

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.

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F Description

Qsr Surrogate recovery outside of laboratory limits.

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

LAB Order 1D# 1412523

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Brandon & Clark 3403 Industrial Blvd. **Hobbs, NM 88240** Tel (575) 392-7561 Fax (575) 392-4508 Turn Around Time if different from standard 2 Na, Ca, Mg, K, TDS, EC Circle or Specify Nethod CI' E' 2O⁴' NO3 -N, NO2 -N, PO4 -P, Alkalinity Moisture Content **ANALYSIS REQUEST** BioAquatic Testing 2501 Mayes Rd., Ste 100 **Carrollton, Texas 75006** Tel (972) 242-7750 Dry Weight Basis Required Check If Special Reporting Limits Are Needed BOD, TSS, pH TRRP Report Required Pesticides 8081 / 608 from Freld **BCB**,2 8082 \ 608 GC/MS Semi. Vol. 8270 / 625 REMARKS CC/W2 A91' 8560 / 654 BCI TCLP Pesticides کم TCLP Semi Volatiles TCLP Volatiles LAB USE Carry Log-in-Review B ONLY 200 East Sunset Rd., Suite El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443 Suite TCLP Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 329 \ 07<u>2</u>8 HA9 TPH 8015 GRO / DRO / TVHC ⋑ ပ TPH 418.1 / TX1005 / TX1005 Ext(C35) 8023 / 602 / 8260 / 624 0-9 SBO X3T8 COR 5.9 **BETM** 8021 / 602 / 8260 / 624 INST OBS INST OBS INST COR COR 00:11 10.55 SAMPLING **JMIT** Q OSEKOS.COM 5002 Basin Street, Suite A1

Midland, Texas 79703

Tel (432) 689-6301

Fax (432) 689-6313 A DATE Time: 13:5 Time: Time: 270-7562 75-14 Date: Date: NONE PRESERVÁTIVE MAL ➾ Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. METHOD ICE pler Signature: NaOH Company Company ⁵OS^zH = Project Name Suite 9 6701 Aberdeen Avenue, Suite Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 Phone # HCI Fax #: 8 Received by: Received by: SUDDE MATRIX SOMERS AIR 30 IA econcy-RD SOIF **A**3TAW 13:50 م Time: JnuomA \ emuloV Time: Ste FraceAnalysis, Inc. # CONTAINERS Tie 11-25-14 Date: Date: 20 TO email: lab@traceanalysis.com boency مل ماہدک FIELD CODE Company Company 900 Project Location (including state): City, Zip) 7030714 (If different from above) 490 (045w) b-orner's MASE Relinquished by Contact Person: Company Name Relinquished Relinquished nvoice to: AB USE a Project #: ONLY Address: **#8**

Carrier #

ONIDINAL CODY



APPENDIX D

Manifests



SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231

TICKET No. 325309

' ' (575) 394-2511		.)			
LEASE OPERATOR/SHIPPER/COMPANY:	egenous				
LEASE NAME: // / - 3 //	0 E				
TRANSPORTER COMPANY: 11+11	or Fullar	TIME SO SO AM/PM			
DATE: 11-26-14 VEHICLE NO: 3	GENERA	TOR COMPANY MAN'S NAME: P 2 1 1 1 1 1			
CHARGETO: Page 11		NAME NUMBER			
TYPE OF MATERIAL					
[] Production Water	[] Drilling Fluids	[] Rinsate			
[] Tank Bottoms	[] Contaminated Soil	[] Jet Out			
[] Solids	[] BS&W Content:	[] Call Out			
Description:	>				
RRC or API #		C-133#			
VOLUME OF MATERIAL [] BBLS	: [] YARD	2 : []			
AS A CONDITION TO SUNDANCE SERVITICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, COTO TIME, 40 U.S.C. § 6901, et seq., THE NM HERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DEGEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SETTICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transpabove described location, and that it was termaterials were added to this load, and that the DRIVER: (SIGNATURE)	AND WARRANTS THAT THE WAST ONSERVATION AND RECOVERY AC HEALTH AND SAF. CODE § 361.001 AFFORDED DRILLING FLUIDS, PROVELOPMENT OR PRODUCTION OF RIVICES, INC.'S ACCEPTANCE OF THIS AND WARRANTS THAT ONLY NOW DELIVERED BY TRANSPORT OF THE PROPERTY OF THE PROP	TE MATERIAL SHIPPED HEREWITH IS CT OF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE F CRUDE OIL OR NATURAL GAS OR EMATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY TER TO SUNDANCE SERVICES, INC.'S ed by this Transporter Statement at the per. This will certify that no additional			
FACILITY REPRESENTATIVE: (SIGNATURE)					
White - Sundance Canary - Sundance Acct #1 Pink - Transporter					
Re-order from: TOTALLY SHARP ADVERTISING • 432-586-5401 • www.PromoSupermarket.com					

SUNDANCE SERVICES, Inc. TICKET No. 324258 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY: TIME AM/PM GENERATOR COMPANY DATE: **VEHICLE NO:** RIG NAME AND NUMBER **CHARGE TO:** TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms [X] Contaminated Soil [] Jet Out [] Solids [] BS&W Content: [] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** [] BBLS. [YARD [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE associated with the exploration, development or production of crude oil or natural gas or

GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: (SIGNATURE) **FACILITY REPRESENTATIVE:** (SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

SUNDANCE SERVICES, Inc. PO. Bbx 1737 Funice New Mexico 88231

(575) 394-2511	0 88231	IICKLI W	
LEASE OPERATOR/SHIPPER/COMPANY: Rec	1011011		
LEASE NAME: 1119 3 F	1 Deline		
TRANSPORTER COMPANY: Panther	Enerall		TIME SOS AM/PM
DATE: // - 20 - // VEHICLE NO: 33	GENERA	TOR COMPANY MAN'S NAME:	Willip Lille
CHARGETO: REGENELY		NAME NUMBER	
TY	PE OF MATERIAL	-	
[] Production Water	[] Drilling Fluids	[] Rin	sate
[] Tank Bottoms	Contaminated Soil	[] Jet	
[] Solids	[] BS&W Content:	[] Cal	2
Description:			
RRC or API #		C-133#	
VOLUME OF MATERIAL [] BBLS.	: [)() YARD/	2 :	[]
AS A CONDITION TO SUNDANCE SERVICES, TICKET, OPERATOR/SHIPPER REPRESENTS AND MATERIAL EXEMPT FROM THE RESOURCE, CONS TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALT THERETO, BY VIRTUE OF THE EXEMPTION AFFO ASSOCIATED WITH THE EXPLORATION, DEVELO GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICITICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NOW FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter above described location, and that it was tendered materials were added to this load, and that the meaning of the second	WARRANTS THAT THE WAST ERVATION AND RECOVERY ACTH AND SAF. CODE § 361.001 RDED DRILLING FLUIDS, PRODPMENT OR PRODUCTION OF SAME AND SAFE OF THE WARRANTS THAT ONLY DELIVERED BY TRANSPORT STANDARD SAFE OF THE SAF	E MATERIAL S T OF 1976, AS, et seq., AND RI DUCED WATER F CRUDE OIL G MATERIALS SI THE MATER ER TO SUNDA d by this Transp per. This will cel cident.	SHIPPED HEREWITH IS AMENDED FROM TIME EGULATIONS RELATED IS, AND OTHER WASTE OR NATURAL GAS OR HIPPED WITH THIS JOB IAL DELIVERED BY ANCE SERVICES, INC.'S DOORTER Statement at the rtify that no additional
	ry - Sundance Acct #1	Pink - Tran	nsporter
Re-order from: TOTALLY SHARP AL	OVERTISING • 432-586-5401 • www.PromoS	upermarket.com	

SUNDANCE SERVICES, Inc. TICKET No. 324921 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: TIME AM/PM VEHICLE NO: GENERATOR COMPANY DATE: MAN'S NAME RIG NAME **CHARGE TO:** AND NUMBER TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms [] Contaminated Soil [] Jet Out [] Solids [] BS&W Content: [] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** [] BBLS. A YARD [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: (SIGNATURE)

FACILITY REPRESENTATIVE: (SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SER P.O. Box 1737 Eunice, New (575) 394-251	Mexico 88231	TICKET No. 324882
LEASE OPERATOR/SHIPPER/COMPANY:	Regency	
LEASE NAME: //// -3	Pivelane J	
TRANSPORTER COMPANY:	Ur Theras	TIME////AM/PM
DATE: //- 74-14 VEHICLE NO:	GENERA	TOR COMPANY MAN'S NAME:
CHARGETO: Rege		NAME NUMBER
	TYPE OF MATERIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	[1] Contaminated Soil	[] Jet Out
[] Solids	[] BS&W Content:	[] Call Out
Description:	<i>ID</i>	
RRC or API #		C-133#
VOLUME OF MATERIAL [] BBLS.	: X] YARD_/_	<u> </u>

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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(SIGNATURE)	
FACILITY REPRESENTATIVE:	D. 3/4 (11/2-
(SIGNATU	URE)
White - Sundance	Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SER P.O. Box 1737 Eunice, New (575) 394-25	v Mexico 88231	TICKET NO. 324676
LEASE OPERATOR/SHIPPER/COMPANY:	Pearney	
LEASE NAME: 171 A - 3 1	ine line	
TRANSPORTER COMPANY:	MHER Energy	TIME // 55AM/PM
DATE: /1-24-14 VEHICLE NO: =		TOR COMPANY P. 1141/E
CHARGETO: Realli		NAME NUMBER
TYPE OF MATERIAL		
[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	【] Contaminated Soil	[] Jet Out
[] Solids	[] BS&W Content:	[] Call Out
Description:	1/D	
RRC or API #		C-133#
VOLUME OF MATERIAL [] BBLS	: X[]YARD_/_	. []

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER:	Incort	Day	ale_		į.
(SIGNATURE)	1	and the same	and the same of th		8 :
FACILITY REPRESENTATIV	/E: _	na	Cau	A. C. Carrier	
	(SIGNATURE)	- Indeed	Widow -	7/\	1, %

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

P.O. Box 1737 Eun	ERVICES, Inc. ice, New Mexico 88231 394-2511	TICKET No. 324919
LEASE OPERATOR/SHIPPER/COMPANY:	Rossian	,
LEASE NAME:	1110	
TRANSPORTER COMPANY:	nthey Energ	TIME/ AM/PM
DATE: // 74-/4 VEHICLE N		ATOR COMPANY MAN'S NAME:
CHARGE TO: Rege		S NAME ID NUMBER
	TYPE OF MATERIAL	
[] Production Wa		[] Rinsate
[] Tank Bottoms	Contaminated Soil	
[] Solids	[] BS&W Content:	[] Jet Out
2 1 30 llas	1 1 body Content:	[] Call Out
Description:		
RRC or API #		C-133#
VOLUME OF MATERIAL [] BBLS	: X1 YARD_/	2_: []_
MATERIAL EXEMPT FROM THE RESO TO TIME, 40 U.S.C. § 6901, et seq., T THERETO, BY VIRTUE OF THE EXEM ASSOCIATED WITH THE EXPLORATI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDA TICKET. TRANSPORTER REPRESE	CE SERVICES, INC.'S ACCEPTANCE OF THE ESENTS AND WARRANTS THAT THE WAS DURCE, CONSERVATION AND RECOVERY AND HE NM HEALTH AND SAF. CODE § 361.001 PTION AFFORDED DRILLING FLUIDS, PROJON, DEVELOPMENT OR PRODUCTION CONTROL SERVICES, INC.'S ACCEPTANCE OF THE INTS AND WARRANTS THAT ONLY REFER IS NOW DELIVERED BY TRANSPORT	TE MATERIAL SHIPPED HEREWITH IS CT OF 1976, AS AMENDED FROM TIME I et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE OF CRUDE OIL OR NATURAL GAS OR IE MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY
above described location, and that it	e Transporter loaded the material represent t was tendered by the above described ship of that the material was delivered without in	oper This will certify that no additional

Canary - Sundance Acct #1

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Pink - Transporter

White - Sundance

P.O. Box 1737 Eur	ERVICES, Inc. ice, New Mexico 88231 394-2511	TICKET No.	324937
LEASE OPERATOR/SHIPPER/COMPANY	Ropen	A	
LEASE NAME: 11 1 - 3	Pinot		
TRANSPORTER COMPANY:	Alder She	TIN	ME / 3/ AM/PM
DATE: // Z 4/-/ 4 VEHICLE N	10: 33	GENERATOR COMPANY MAN'S NAME:	114/0
CHARGE TO: Regs	1104	RIG NAME AND NUMBER	
1.00	TYPE OF MATERIAL	•	
[] Production W	ater [], Drilling Fluids	[] Rinsate	
[] Tank Bottoms	N /		
[] Solids	[] BS&W Content:	[] Call Out	
Description:	OD		
RRC or API #		C-133#	
VOLUME OF MATERIAL [] BBLS	: X[]YARD	12 :	
MATERIAL EXEMPT FROM THE RESO TO TIME, 40 U.S.C. § 6901, et seq., 1 THERETO, BY VIRTUE OF THE EXEM ASSOCIATED WITH THE EXPLORAT GEOTHERMAL ENERGY.	HE NM HEALTH AND SAF. CODE § 3 IPTION AFFORDED DRILLING FLUID TON, DEVELOPMENT OR PRODUCT ANCE SERVICES, INC.'S ACCEPTANCE ENTS AND WARRANTS THAT RTER IS NOW DELIVERED BY TRAN THE PROPURE OF THE PROPU	E WASTE MATERIAL SHIPI /ERY ACT OF 1976, AS AME 61.001 et seq., AND REGU IS, PRODUCED WATERS, A FION OF CRUDE OIL OR I OF THE MATERIALS SHIPP ONLY THE MATERIAL ISPORTER TO SUNDANCE OF Secreted by this Transporter of shipper. This will certify	PED HEREWITH IS INDED FROM TIME LATIONS RELATED ND OTHER WASTE NATURAL GAS OR ED WITH THIS JOB DELIVERED BY * E SERVICES, INC.'S
(SIGNAT	URÈ	7)	
White - Sundance	Canary - Sundance Acct #1	Pink - Transpor	ter
Re-order from: T	OTALLY SHARP ADVERTISING • 432-586-5401 • www	v.PromoSupermarket.com	

P.O. Box 1737 Eunice, New (575) 394-251	Mexico 88231	TICKET No.	324958
LEASE OPERATOR/SHIPPER/COMPANY:	Reagney		
LEASE NAME:	dina		
TRANSPORTER COMPANY:	or Encinz	TIA	ME 2:37 AM/PM
DATE: //-// VEHICLE NO: 3		TOR COMPANY MAN'S NAME:	114/2
CHARGETO: KALLENCES	RIG AND	NAME NUMBER	
11	TYPE OF MATERIAL		
[] Production Water	[] Drilling Fluids	[] Rinsate	
[] Tank Bottoms	Contaminated Soil	[] Jet Out	
[] Solids	[] BS&W Content:	[] Call Out	
Description:	<i>lp</i>		
RRC or API #		C-133#	
VOLUME OF MATERIAL [] BBLS.	: \(\)(1\)YARD/	<i>Z</i> _:	[]

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:	at Savala
(SIGNATURE)	A series of the
FACILITY REPRESENTATIVE:	D. 3/4 Cu 2
(SIGNATU	(RE)
White - Sundance	Canary - Sundance Acct #1 Pink-Transporter

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Pink - Transporter

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SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, (575) 394	
LEASE OPERATOR/SHIPPER/COMPANY:	Regency
LEASE NAME:	TIME 3:51 AMPM
TRANSPORTER COMPANY:	GENERATOR COMPANY
DATE: // Z L/-/ 4 VEHICLÉ NO:	MAN'S NAME: 1, 1141/E
CHARGE TO:	TENT TO RIG NAME AND NUMBER
	TYPE OF MATERIAL
[] Production Water	r [] Drilling Fluids [] Rinsate
[] Tank Bottoms	K Contaminated Soil [] Jet Out
[] Solids	[] BS&W Content: [] Call Out
Description:	0/0
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS	: X] YARD: []
TICKET, OPERATOR/SHIPPER REPRESS MATERIAL EXEMPT FROM THE RESOUL TO TIME, 40 U.S.C. § 6901, et seq., THE THERETO, BY VIRTUE OF THE EXEMPT ASSOCIATED WITH THE EXPLORATION GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANTICKET. TRANSPORTER REPRESENTO OPERATOR/SHIPPER TO TRANSPORTIF FACILITY FOR DISPOSAL.	SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS RCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME ENM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED FROM AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE N, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR CE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY ER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
above described location, and that it we materials were added to this load, and the barries of t	ransporter loaded the material represented by this Transporter Statement at the vas tendered by the above described shipper. This will certify that no additional that the material was delivered without incident.
(SIGNATŮR White - Sundance	Canary - Sundance Acct #1 Pink - Transporter

P.O. Box 1737 Eunio	ERVICES, Inc. ce, New Mexico 88231 394-2511	TICKET No. 324860	
LEASE OPERATOR/SHIPPER/COMPANY:	Pogences		
LEASE NAME: H - 3	iveline 1		
TRANSPORTER COMPANY:	anther que	TIME 5.55 (AM/P)	M
DATE: 11-74-14 VEHICLE'N	0: 33	GENERATOR COMPANY MAN'S NAME: 1 111	
CHARGETO: ROGERC	4	RIG NAME AND NUMBER	
	TYPE OF MATERIAL		
[] Production Wa	ter [] Drilling Fluids	[] Rinsate	
[] Tank Bottoms	Contaminated So	oil [] Jet Out	
[] Solids	[] BS&W Content:	[] Call Out	
Description:	0/0		
RRC or API #		C-133#	
VOLUME OF MATERIAL [] BBLS	: YARD	12: [1	
TICKET, OPERATOR/SHIPPER REPR MATERIAL EXEMPT FROM THE RESO TO TIME, 40 U.S.C. § 6901, et seq., T THERETO, BY VIRTUE OF THE EXEM	ESENTS AND WARRANTS THAT THE DURCE, CONSERVATION AND RECOVI THE NM HEALTH AND SAF. CODE § 36 IPTION AFFORDED DRILLING FLUIDS	F THE MATERIALS SHIPPED WITH THIS JOB E WASTE MATERIAL SHIPPED HEREWITH IS ERY ACT OF 1976, AS AMENDED FROM TIME 61.001 et seq., AND REGULATIONS RELATED S, PRODUCED WATERS, AND OTHER WASTE TON OF CRUDE OIL OR NATURAL GAS OR	

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S

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Canary - Sundance Acct #1

Pink - Transporter

materials were added to this load, and that the material was delivered without incident.

(SIGNATURE)

FACILITY FOR DISPOSAL.

(SIGNATURE)

FACILITY REPRESENTATIVE:

White - Sundance

DRIVER:

P.O. Box 1737 Eunice (575) 39	e, New Mexico 88231 94-2511	11CKEI NO. 324943	
LEASE OPERATOR/SHIPPER/COMPANY:	Penency		
LEASE NAME: ///2/-3	Line		Jan.
TRANSPORTER COMPANY:	anthor En	TIME / / AM/PI	M
DATE: //- 71/- 12/ VEHICLE NO	: 32 GE	MAN'S NAME: 1.11416	
CHARGETO: Lege	11061	RIG NAME AND NUMBER	
1	TYPE OF MATERIAL		
[] Production Wat	er [] Drilling Fluids	[] Rinsate	
[] Tank Bottoms	¥] Contaminated Soil	[] Jet Out	
[] Solids	[] BS&W Content:	[] Call Out	
Description:	0/0		
RRC or API #		C-133#	
VOLUME OF MATERIAL [] BBLS	: YARD_	/ L	

SUNDANCE SERVICES, Inc.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: A LEXA.	Stepin	
(SIGNATURE)	7 9 2/ //	
FACILITY REPRESENTATIVE	D. Jla Cuiz	
	(SIGNATURE)	

White - Sundance

Canary - Sundance Acct #1

Rink - Transporter

P.C). Box 1737 Eunice, New Mex (575) 394-2511	xico 88231	IICREI NO.
LEASE OPERATOR/SHIPP	ER/COMPANY:	2001184	
LEASE NAME:	114.53	Moddine	
TRANSPORTER COMPAN	South of the state	Hencial	TIME // AM/PM
DATE: 11-74-14	VEHICLE NO: 3	J. J. GENÉR	ATOR COMPANY MAN'S NAME:
CHARGE TO:	Fage 110	RIG	NAME D NUMBER
	Т	YPE OF MATERIAL	
[]	Production Water	[] Drilling Fluids	[] Rinsate
[]	Tank Bottoms	Contaminated Soil	[] Jet Out
[]	Solids	[] BS&W Content:	[] Call Out
Description:	0		
RRC or API #			C-133#
VOLUME OF MATERIAL	[]BBLS.	_: YARD_/	· []

SUNDANCE SERVICES, Inc.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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16.	- Lesten
DRIVER: (SIGNATURE)	-1-07 S/ / 3
FACILITY REPRESENTATIV	
	(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

P.O. Box 1737 Eunice (575) 39		TICKET No.	324900
LEASE OPERATOR/SHIPPER/COMPANY:	Deaences		N.
LEASE NAME: /// 4/- 3/4	1116 0		
TRANSPORTER COMPANY:	HAON SWEA	1174 TI	ME AM/PM
DATE: //-/// VEHICLE NO	: 37	GENERATOR COMPANY MAN'S NAME:	114/2
CHARGETO: Pone	11 011	RIG NAME AND NUMBER	
	TYPE OF MATERIAL	_	4
[] Production Water	er [] Drilling Fluids	[] Rinsat	e
[] Tank Bottoms	[] Contaminated S	Soil [] Jet Ou	t
[] Solids	[] BS&W Content:	[] Call O	ut
Description:	0/0		
RRC or API #	<u> </u>	C-133#	
VOLUME OF MATERIAL [] BBLS	: 1 YAR	D/2 :	[]

SUNDANCE SERVICES. Inc.

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	DRIVER: Allen	Liller		
	(SIGNATURE)	7 3/ /	*him	
	FACILITY REPRESENTATIVE:	M. Hall	(12/	
	(SIGN	ATURE)	//	
i,	White - Sundance	Canary - Sundance Acct #1	Pink - Transporter	

	ERVICES, I e, New Mexico 88231 94-2511	nc. TICKET No	324960
LEASE OPERATOR/SHIPPER/COMPANY:	KARTEL	124	
LEASE NAME: 11 H - 3	Line	,	
TRANSPORTER COMPANY:	n-ther &	111111111	TIME 7.47 AM/PM
DATE: //- 74 - 14 VEHICLE NO	32	GENERATOR COMPANY MAN'S NAME:	114/10
CHARGETO: Rec	rency	RIG NAME AND NUMBER	
	TYPE OF MA	ATERIAL	
[] Production Wa	ter [] Drillin	g Fluids [] Rins	sate
[] Tank Bottoms)√1 Conta	minated Soil [] Jet	Out
[] Solids	[] BS&W	Content: [] Call	Out
Description:	0/0_		
RRC or API #		C-133#	
VOLUME OF MATERIAL [] BBLS.	:	(1 YARD / 2 :	[]

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DRIVER: A Consider	infeld in	n)
(SIGNATURE)	7 11 7 1	1
	111111111	1117
FACILITY REPRESENTATIVE:	manufact of the	A. A
, s	IGNATURE)	and the second s
White - Sundance	e Canary - Sundance Acc	#1 Pink - Transporter

P.O. Box 1737 Eunice, New Mexic (575) 394-2511	CES, Inc. TICKET No. 324664
LEASE OPERATOR/SHIPPER/COMPANY: Lea	gency
LEASE NAME: 1714 -3 LT	ne
TRANSPORTER COMPANY: Land he	r Eneral TIME 1:07 (AM/PM
DATE: //- 02/-/1/ VEHICLE NO: 32	GENERATOR COMPANY MAN'S NAME: LH4/E
CHARGETO: Legence	RIG NAME AND NUMBER
TY	PE OF MATERIAL
[] Production Water	[] Rinsate
[] Tank Bottoms	Contaminated Soil [] Jet Out
[] Solids	[] BS&W Content: [] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS	_: X1 YARD_/2: [1
TICKET, OPERATOR/SHIPPER REPRESENTS AN	S, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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DRIVER: (SIGNATURE)	11411	witten.
FACILITY REPRESENTATIVE:	and Ild (Il	
(SIGN	ATURE)	/ 1
White - Sundance	Canary - Sundance Acct #1	Pink - Transporter

P.O. Box 1737 Eunice	ERVICES, Inc. e, New Mexico 88231 94-2511	TICKET No. 324904	
LEASE OPERATOR/SHIPPER/COMPANY:	Regences		
LEASE NAME:/// A - 3	ne line		
TRANSPORTER COMPANY:	Ither the		
DATE: //- 24-14 VEHICLE NO	GENERATOR COMPANY #		
CHARGETO: Req	-0 24	RIG NAME AND NUMBER	
,	TYPE OF MATERIAL	L	
[] Production Wa	ter [] Drilling Fluids	[] Rinsate	
[] Tank Bottoms	X1 Contaminated S	Soil [] Jet Out	
[] Solids	[] BS&W Content:	: [] Call Out	
Description:	010		
RRC or API #		C-133#	
VOLUME OF MATERIAL [] BBLS	: X1 YAR	RD_/Z: []	

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DRIVER: Alexa	Lutai
(SIGNATURE)	1/1/21 /
FACILITY REPRESENTATIVE:	1. Ja LAUZ
(SI	GNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

SUNDANCE SERVICES, Inc. TICKET No. 324432 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** AM/PM TIME TRANSPORTER COMPANY: GENERATOR COMPANY MAN'S NAME: VEHICLE NO: DATE: RIG NAME AND NUMBER **CHARGE TO:** TYPE OF MATERIAL [] Drilling Fluids [] Rinsate [] Production Water Contaminated Soil [] Jet Out [] Tank Bottoms [] Call Out [] BS&W Content: [] Solids Description: C-133# RRC or API# I YARD [] **VOLUME OF MATERIAL** [] BBLS. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: (SIGNATURE) **FACILITY REPRESENTATIVE:**

(SIGNATURE) White - Sundance

FACILITY FOR DISPOSAL.

Canary - Sundance Acct #1

Pink - Transporter

SUNDANCE SERVICES, Inc. TICKET No. 324418 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: AM/PM TIME TRANSPORTER COMPANY: GENERATOR COMPANY **VEHICLE NO:** DATE: MAN'S NAME RIG NAME AND NUMBER CHARGE TO: TYPE OF MATERIAL [] Rinsate [] Drilling Fluids [] Production Water [] Jet Out [Contaminated Soil [] Tank Bottoms [] Call Out [] BS&W Content: [] Solids Description: C-133# RRC or API# X YARD []. [] BBLS. **VOLUME OF MATERIAL** AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER:	Intent Savala	
(SIGNATURE)	1 () ()	
FACILITY REPRESENTATIVE:	1) Ja Cruz	
	(SIGNATURE)	
White - Sundar	ce Canary - Sundance Acct #1 Pink - Transporter	

SUNDANCE SER P.O. Box 1737 Eunice, Ne (575) 394-2.	w Mexico 88231	TICKET No. 324419			
LEASE OPERATOR/SHIPPER/COMPANY: REGENICH.					
LEASE NAME:	3 PIDE 11116				
TRANSPORTER COMPANY: #17 1111 TIME 10:32 AM/PM					
DATE: //- //- / 2/ VEHICLE NO:		OR COMPANY FILLITHE			
CHARGETO: Regency	RIG N.	AME NUMBER			
TYPE OF MATERIAL					
[] Production Water	[] Drilling Fluids	[] Rinsate			
[] Tank Bottoms	Contaminated Soil	[] Jet Out			
[] Solids	[] BS&W Content:	[] Call Out			
Description:		- 1			
RRC or API #		C-133#			
VOLUME OF MATERIAL [] PRIS	· XI YARD	2 : []			

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DRIVER: Allein.	Luxie	
(SIGNATURE)	1/1951. (7	and the second of the second o
FACILITY REPRESENTATIVE:	VATURE)	
White - Sundance	Canary - Sundance Acct #1	Pink - Transporter

P.O. Box 1737 Eunice, Ne (575) 394-2	ew Mexico 88231	CKET No. 324433			
LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: /) / A - 3 PIPE I'N E TRANSPORTER COMPANY:					
CHARGETO: Regen	TYPE OF MATERIAL	BER			
[] Production Water [] Tank Bottoms [] Solids Description:	[] Drilling Fluids [] Contaminated Soil [] BS&W Content:	[] Rinsate [] Jet Out [] Call Out			
RRC or API #		C-133#			
VOLUME OF MATERIAL [] BBLS.	: X YARD_/	: []			

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DRIVER: (SIGNATURE)	Sultan		
FACILITY REPRESENTATIVE:	NATURE)	Mu 2	

White - Sundance Canary - Sundance Acct #1

Pink-Transporter