

REMEDIATION SUMMARY & SOIL CLOSURE REQUEST

Property:

REGENCY FIELD SERVICES LLC. Trunk M-2 Drip Tank Historical Release Site Lea County, New Mexico Unit Letter "G", Section 31, Township 23 South, Range 37 East Latitude 32.263963, Longitude -103.199587 1RP-1819

> January 2015 Apex Project No. 7030714G043

> > Prepared for:

Regency Field Services LLC 421 West 3rd Street, Suite 250 Fort Worth, TX 76102 Attn: Ms. Crystal Callaway, BSN, RN, CHMM

Prepared by:

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Thomas Franklin Project Manager

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Liz Scaggs, P.G. Senior Technical Review



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REMEDIATION SUMMARY & SOIL CLOSURE REQUEST

REGENCY FIELD SERVICES LLC. Trunk M-2 Drip Tank Historical Release Site Lea County, New Mexico Unit Letter "G", Section 31, Township 23 South, Range 37 East Latitude 32.263963, Longitude -103.199587

January 2015 Apex Project No. 7030714G043

1.0 INTRODUCTION

1.1 Site Description & Background

Apex TITAN, Inc. (Apex) has prepared this Remediation Summary and Soil Closure Request for the Regency Field Services, LLC (Regency) Trunk M-2 Drip Tank (referred to hereinafter as the "Site" or "subject Site"). Remedial actions were reportedly conducted in accordance with New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (NMOCD) rules (*NMAC 19.15.29 Release Notification*) and the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

The Trunk M-2 Drip Tank is located off of Deep Wells Road, south of Eunice, New Mexico (GPS 32.263963, -103.199587). According to documentation provided by Basin Environmental Service Technologies, LLC. (Basin), the below-grade tank (BGT) was permitted by the operator at the time, Southern Union Gas, to the New Mexico Oil Conservation Division (NMOCD) in March of 2008. The NMOCD C-144 form indicated a closure plan for a 210 barrel, BGT. Regency Field Services, LLC. has subsequently acquired this site.

The previous remedial activities were reportedly conducted by Basin. This Closure Request is solely based upon the interpretation of the data provided by Basin and the data collected by Apex.

1.2 **Project Objective**

The objective of the Remediation Summary and Soil Closure Request is to present documentation of the activities that were performed to date and to request closure of the site.

1.3 Standard of Care

Apex's services are performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, express or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services will be performed in accordance with the scope of work agreed with the client.

1.4 Reliance

This report has been prepared for the exclusive use of Regency, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Regency and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

2.0 SITE RANKING & PROPOSED REMEDIAL ACTION GOALS

The Site is subject to regulatory oversight by the NMOCD. To address activities related to releases, the NMOCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the NMOCD rules, specifically NMAC 19.15.29 *Release Notification.* These documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

In accordance with the NMOCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Rankin	g Criteria		Ranking Score
	<50 feet	20	
Depth to Groundwater	50 to 99 feet	10	0
	>100 feet	0	
Wellhead Protection Area,	Yes	20	
<1,000 feet from a water source, or; <200 feet from private domestic water source.	No	0	0
Distance to Surface	<200 feet	20	
	200 to 1,000 feet	10	0
Water Body	>1,000 feet	0	
Total Rar	nking Score		0

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 0. This ranking is based on the following:

- The depth to the initial groundwater-bearing zone is greater than 100 feet at the Site.
- The impacted area is greater than 200 feet from a private domestic water source.
- Distance to the nearest surface water body is greater than 1,000 ft.

Based on a Total Ranking Score of 0, cleanup goals for soils remaining in place include: 10 milligrams per kilogram (mg/Kg) for benzene, 50 mg/Kg for total benzene, toluene, ethlybenzene and xylene (BTEX) and, 5,000 mg/Kg for total petroleum hydrocarbons (TPH).

3.0 INITIAL RESPONSE, EXCAVATION & DRILLING ACTIVITIES

3.1 Initial Response

The Trunk M-2 Drip Tanks and associated equipment were removed by the previous operator, Southern Union Gas Services (SUG). On March 25, 2008 SUG conducted an initial investigation at the Site. During the investigation, samples were collected from depths up to seventeen (17) feet below grade surface (bgs). The soil samples were submitted for laboratory analysis which did not detect elevated concentrations where the former above ground storage tanks were located. The Soil Analytical Summary Table as provided by SUG is located in Appendix B as Table 1.

3.2 Excavation Activities

Excavation remediation activities were conducted by Basin and began on March 15, 2013. The storage tanks had been removed, however, the outline of the historic facility was still visible. The excavation activities included removing impacted material from the historic facility and transporting it offsite to an approved disposal facility. The final dimensions of the excavation were approximately one hundred and twenty (120) feet in length, seventy (70) feet in width and twelve (12) to fifteen (15) feet in depth as shown on Figure 4, Appendix A. Approximately six thousand, five hundred thirty six (6,536) cubic yards (yd³) of impacted soil was transported to Sundance Services Inc. for proper disposal. The manifests are provided in Appendix E. The excavated area was lined and fitted with three (3) eight (8) inch PVC conduits in the areas with the highest concentrations.

3.3 Excavation Confirmation Soil Sampling Program

Side wall and bottom hole soil samples were collected by Basin personnel and all of the samples were analyzed for BTEX, TPH and chlorides. The results of the confirmation samples were compared to the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* (Section VI A. Contaminated Soils). One area exceeded the NMOCD clean-up goals as discussed in Section 2.0 above. The Middle Excavation sample exceeded chloride regulatory levels with a result of 1,170 mg/Kg at fifteen (15) feet bgs. The impacted soil at the Site was not vertically defined for chlorides in this area.

3.4 Drilling Activities

Apex personnel supervised soil boring activities in the area that was not previously vertically delineated. On October 21, 2014; Mr. Thomas Franklin, was present to observe on-Site activities and to collect soil samples. Two soil borings (SB-1 and SB-2) as shown in Figure 4, were installed to depths of twenty (20) feet bgs and forty (40) feet bgs, respectively. Samples were collected and field screened for chlorides and hydrocarbons.

3.5 Drilling Confirmation Soil Sampling Program

Two (2) soil samples were collected from soil boring SB-1 by Apex personnel and analyzed for TPH and chlorides as shown in Appendix B, Table 3. The analytical sample results were below the NMOCD regulatory levels. Five (5) soil samples were collected from soil boring SB-2 and analyzed for TPH and chlorides. Elevated chloride concentrations were found at depths down to thirty (30) feet bgs, with the highest concentration of 340 mg/Kg at twenty (20) feet. The chloride concentrations declined to 243 mg/Kg at forty (40) feet bgs, which vertically delineated the chloride to below the NMOCD Guideline.

4.0 LABORATORY ANALYTICAL METHODS

Soil samples collected were analyzed for TPH GRO/DRO utilizing EPA method SW-846 8015, BTEX using EPA method SW-846 8021B and chlorides utilizing EPA method SW-846 300.1. Copies of the laboratory analytical reports are provided in Appendix D.

Soil samples were collected and placed in laboratory prepared glassware, placed on ice in a cooler. The sample coolers and completed chain-of-custody forms were relinquished to an approved laboratory for normal turn-around time.

Figure 3 is a Site plan that indicates the approximate location of the confirmation soil samples, test trench and soil borings in relation to pertinent land features and general Site boundaries.

5.0 CLOSURE

Based upon the data provided by Basin and Apex and the photos shown in Appendix C, the site was delineated and brought to grade. Based upon the response actions and laboratory analytical results, no additional investigation and/or remediation appears warranted at this time. Regency respectfully requests closure of this site. Copies of the Initial and Final C-144 are provided in Appendix F.



APPENDIX A

Figures



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Topographic Map Rattlesnake Canyon, NM Quadrangle 1969

Project No. 7030714G043.001



Regency - Trunk M-2 Drip Tanks Lea County, New Mexico 32.263963N, 103.199587W



Apex TITAN, Inc. 505 N. Big Spring Street, Suite 301A Midland, Texas 79701 Phone: (432) 695-6016 www.apexcos.com A Subsidiary of Apex Companies, LLC

FIGURE 2 Site Vicinity Map

Project No. 7030714G043.001



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Z:\Houston South\Drafting\Midland 07\2014\7030714G043\Figure 3.dwg 01/14/15



APPENDIX B

Soil Analytical Results

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES TRUNK M#2 DRIP TANKS HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REFERENCE# 1RP-1819

	SAMPLE				METHOD: E	PA SW 846-80	21B, 5030		ME	THOD: 801	5M	TOTAL	EPA: 300
SAMPLE LOCATION	DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₆ -C ₂₈ (mg/Kg)	CHLORIDE (mg/Kg)
Seperator Stain Surface	Surface	3/25/2008	N/A	0.0013	0.0043	0.0021	0.0082	0.0159	<15.2	2,810	1.410	4220	E 4 7
Seperator Stain 9ft. BGS	9'	3/25/2008	N/A	< 0.0011	< 0.0022	0.0103	0.043	0.0533	72.5	894	269		517
Tank Vent Stain Surface	Surface	3/25/2008	N/A	< 0.0010	< 0.0020	0.0011	0.0043	0.0054	<15.2			1235.5	371
Tank Vent Stain 30in. BGS	2.5'	3/25/2008	N/A	< 0.0010	< 0.0020	< 0.0010	< 0.0020	< 0.0034		91.5	85.4	176.9	21.5
Gate Stain Surface	Surface	3/25/2008	N/A	< 0.0010	< 0.0020	< 0.0010	< 0.0020		<15.3	299	278	577	87.0
Gate Stain 16 in. BGS	16"	3/25/2008	N/A	< 0.0010	< 0.0020	< 0.0010	< 0.0020	< 0.0020	<15.1	268	301	569	21.4
Center Pit Surface	Surface	3/25/2008	N/A	< 0.0010	0.0124	0.0078		< 0.0021	<15.5	37.9	<15.5	37.9	43.9
Center Pit 7ft, BGS	7'	3/25/2008	N/A	<0.0010			0.0479	0.0681	30.9	208	204	442.9	21.4
Center Pit 17ft, BGS	17'	3/25/2008	N/A		0.0104	0.0355	0.0473	0.0681	136	1,280	346	1762	92.6
Chloride Baseline	N/A	3/25/2008		<0.0011	0.0311	0.0675	0.1245	0.6602	295	1,210	273	1778	253
	IN/A	512512008	N/A	nivel laced de becom	-	-	-	-	-	-	-	-	157
NMOCD Standard		and the second second second		10		Report Contractor	54-962 (2-96)						
- = Not analyzed.				10				50				5,000	1,000

TABLE 2

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

SOUTHERN UNION GAS SERVICES TRUNK M#2 DRIP TANKS HISTORICAL RELEASE SITE LEA COUNTY, NEW MEXICO NMOCD REF# 1RP-1819

					METHOD: EF	PA SW 846-80	21B, 5030		ME	FHOD: 801	5M	TOTAL	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₂₈ (mg/Kg)	CHLORIDE (mg/Kg)
SW#1	12'	3/15/2013	In-Situ	-	-	-	-	-	<10.0	482	103	585	144
WW#1	12'	3/15/2013	Excavated	-	-	-	-	-	<10.0	<10.0	10.5	10.5	64.0
WW#2	12'	3/15/2013	Excavated	-	-	-	-	-	<10.0	362	107	469	128
WW#4	12'	3/15/2013	In-Situ	-	-	-	-	-	<10.0	322	65.7	387.7	96.0
EW#2	12'	3/15/2013	Excavated	-	-	-	-	-	61.6	4,660	1,040	5,762	96.0
EW#3	12'	3/15/2013	Excavated	-	-	-	-	-	<10.0	38.8	30.7	69.5	256
NW#3	12'	3/15/2013	In-Situ	-	-	-	-	-	10.0	483	98.3	591.3	96.0
Stockpile	N/A	3/15/2013	Backfill	-	-	-	-	-	<10.0	57.4	37.5	94.9	48.0
Strip Sand	N/A	3/15/2013	Backfill	•	-	-	-	-	<50.0	<50.0	<50.0	<50.0	48.0
Pit Test Trench @ 24'	24'	4/2/2013	In-Situ	<0.050	0.122	0.397	1.42	1.94	144.0	455.0	54.1	653.1	224.0
Pit Test Trench @ 29'	29'	4/2/2013	In-Situ	<0.050	0.052	0.155	0.632	0.840	70.9	263.0	33.7	367.6	240.0
Exc. B Middle Floor	2'	4/3/2013	Excavated	-	-	-	-	-	<50.0	108	208	316	160
Exc. B East Wall #1	14'	4/3/2013	In-Situ	-	-	-	-	-	<10.0	368	57.6	425.6	160
Exc. B East Wall #2	14'	4/3/2013	Excavated	-	-	-	-	-	<10.0	140	25.5	165.5	1,250
Exc. B West Wall #1	14'	4/3/2013	Excavated	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	592
Exc. B West Wall #2	14	4/3/2013	Excavated	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	432
Exc. B North Wall #1	14'	4/3/2013	Excavated	-	-	-	-	-	122	1,200	149	1,471	928
Exc. B North Wall #2	14	4/3/2013	Excavated	-	-	-	-	-	<10.0	289	43.1	332.1	944
Exc. A North Wall	12'	4/3/2013	In-Situ	-	-	-	-	-	24.7	535	78.2	637.9	432
Exc. A West Wall	12'	4/3/2013	In-Situ		-	-	-	-	<10.0	241.0	48.8	289.8	128
East Wall #2 B	12'	04/05/13	In-Situ	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	23.1	<10.0	23.1	48.0
Exc. A Floor A	15'	04/05/13	Capped	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	247	46.3	293.3	144
Exc. A Floor B	15'	04/05/13	Capped	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	232	61.1	171	64.0
Exc. A Floor C	15'	04/05/13	Capped	< 0.050	< 0.050	0.262	0.827	1.09	97.6	541	76.1	714.7	48.0
Exc. A Floor D	15'	04/05/13	Capped	< 0.050	1.09	2.49	8.31	11.9	603	1,160	140	1,903	304
Exc. B South Wall #1	14'	04/05/13	Excavated	< 0.050	< 0.050	0.058	<0.150	< 0.300	<10.0	382	133	515	208
Exc. B South Wall #2	14'	04/05/13	Excavated	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	305	107	412	1,040
Exc. B Floor A	15'	04/05/13	Capped	<0.050	4.21	5.62	23.9	33.7	1,680	1,750	223.0	3,653	224
Exc. B Floor B	15'	04/05/13	Capped	<0.050	0.057	0.108	0.350	0.516	13.9	356.0	56.3	426.2	320
Exc. B South Wall #2b	14'	04/10/13	In-Situ	<0.050	< 0.050	<0.050	0.217	0.217	52.5	573	73.2	698.7	80.0
Exc. B South Wall #1b	14'	04/10/13	In-Situ	< 0.050	< 0.050	< 0.050	0.212	0.212	55.3	727	113	895.3	256
Exc. B East Wall #3	14'	04/10/13	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	224	44.9	268.9	160
Exc. B West Wall #3	14'	04/10/13	Excavated	<0.050	<0.050	0.319	1.30	1.62	132	853	124	1,109	48.0
Middle Exc. East Floor	15'	04/11/13	Capped	<0.050	<0.050	0.095	0.273	0.368	59.0	785	109	953	1,170
Middle Exc. West Floor	15'	04/11/13	Capped	<0.050	<0.050	0.121	0.449	0.570	73.2	817	106	996	1,040
Middle Exc. North Wall #1 Middle Exc. Stockpile	14' N/A	04/11/13 04/11/13	Excavated Disposed	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0 52.1	78.9 1,010	19.2 147	98.1 1,209.1	1,090 1,140
				-	-	-	-	-					
4-18-13 Stockpile	N/A	04/18/13	Backfill	-	-	-	-	-	11.1	219	46.2	276.2	256
4-25-13 Middle Exc Stockpile	N/A	04/25/13	Backfill	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	53.0	21.3	74.3	64.0
4-25-13 Sand Stockpile	N/A	04/25/13	Backfill	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	47.9	29.2	77.1	48.0
Exc. A. North Wall #1b	14'	04/26/13	In-Situ	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	104	21.6	125.6	96.0
Exc. A East Wall #3b	14'	04/26/13	Excavated	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	176
Exc. B. North Wall #1b	14'	04/26/13	In-Situ	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	89.9	16.6	106.5	160
Exc. B. North Wall #2b	14'	04/26/13	In-Situ	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
Exc. B. East Wall #2b	14'	04/26/13	Excavated	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	69.2	15.5	84.7	48.0
Middle Exc. South Wall #1	14'	04/26/13	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
Middle Floor Drill Location	15'	04/26/13	Capped	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	161	65.9	226.9	288
BGT South Wall BGT Floor	16' 18'	04/26/13	In-Situ In-Situ	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	80.0 64.0
	10	0-1/20/10	in Oitu	~0.000	-0.000	~0.000		~0.000	~10.0	10.0	10.0	\$10.0	0.1.0
Middle Exc. N Wall #1A	14'	05/02/13	In-Situ	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	192
Middle Exc. N Wall #2	14'	05/02/13	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

- = Not analyzed.



				F	EGENCY - TRU	BLE 3 INK M2 DRIP AL RESULTS					
Sample ID	Date	Sample Depth (feet)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	Total BTEX (mg/Kg)	TPH (DRO) (mg/Kg)	TPH (GRO) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
NMOCD - Guidelines	for Remediation and Releases	of Leaks, Spills	10	NE	NE	NE	50	Ν	IE	5,000	250
				•	SOIL E	BORINGS				•	
SB-1	10/21/2014	14-15'	NE	NE	NE	NE	NE	380	6.95	386.95	237
SB-1	10/21/2014	19-20'	NE	NE	NE	NE	NE	378	13	391	194
SB-2	10/21/2014	14-15'	NE	NE	NE	NE	NE	1960	2680	4640	291
SB-2	10/21/2014	19-20'	NE	NE	NE	NE	NE	1430	2750	4180	340
SB-2	10/21/2014	24-25'	NE	NE	NE	NE	NE	1050	278	1328	340
SB-2	10/21/2014	29-30'	NE	NE	NE	NE	NE	578	48.40	626.40	291
SB-2	10/21/2014	39-40'	NE	NE	NE	NE	NE	1130	127	1257	243

mg/Kg- milligrams per Kilograms

NE - Not Established

Concentrations in Bold and Highlighted exceed the NMOCD Guidelines



APPENDIX C

Photos



Trunk M-2 Drip Tanks



Start of Excavation



Area of Excavation



Area of Excavation



Excavated Depth



Excavated Depth



Backfill before Liner Installation



Liner Installation



Liner Installation



Backfill on top of Liner



Backfill and Conduit



Backfill and Conduit



Backfill and Conduit



Present Day with some regrowth



Present Day with some regrowth



APPENDIX D

Laboratory Data Reports & Chain-of-Custody Documents

Analytical Report 300330

for

Southern Union Gas Services-Jal

Project Manager: Tony Savoie

Trunk M # 2 Drip Tanks BGT - 003

01-APR-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215

Florida certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Norcross(Atlanta), GA E87429

> South Carolina certification numbers: Norcross(Atlanta), GA 98015

> North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta



01-APR-08



Project Manager: **Tony Savoie Southern Union Gas Services-Jal** 610 Commerce Jal, NM 88252

Reference: XENCO Report No: 300330 Trunk M # 2 Drip Tanks Project Address:

Tony Savoie:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 300330. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 300330 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II Odessa Laboratory Manager

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Sample Cross Reference 300330



Southern Union Gas Services-Jal, Jal, NM

Trunk M # 2 Drip Tanks

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Separator Stain Surface	S	Mar-25-08 15:10		300330-001
Separator Stain 9ft. BGS	S	Mar-25-08 15:15		300330-002
Tank Vent Stain Surface	S	Mar-25-08 15:30		300330-003
Tank Vent Stain 30in. BGS	S	Mar-25-08 15:35		300330-004
Gate Stain Surface	S	Mar-25-08 15:55		300330-005
Gate Stain 16ip. BGS	S	Mar-25-08 16:00		300330-006
Center Pit Surface	S	Mar-25-08 13:50		300330-007
Center Pit 7ft. BGS	S	Mar-25-08 16:05		300330-008
Center Pit 17ft BGS	S	Mar-25-08 16:10		300330-009
Chloride Baseline	S	Mar-25-08 15:45		300330-010



Project Id: BGT - 003

Contact: Tony Savoie

Project Location:

Certificate of Analysis Summary 300330

Southern Union Gas Services-Jal, Jal, NM

Project Name: Trunk M # 2 Drip Tanks

Date Received in Lab: Wed Mar-26-08 09:00 am

Report Date: 01-APR-08

Project Manager:	Brent Barron, II

								110,000	Berr	Dient Darion	,		
	Lab Id:	300330-0	001	300330-0	002	300330-0	003	300330-0	004	300330-	005	300330-	006
A surface in Decouver ()	Field Id:	Separator Stair	Surface	Separator Stain	9ft. BGS	Tank Vent Stain	n Surface	Tank Vent Stain	30in. BGS	Gate Stain S	urface	Gate Stain 16	ip. BGS
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL	,	SOIL	
	Sampled:	Mar-25-08	15:10	Mar-25-08	15:15	Mar-25-08	15:30	Mar-25-08	15:35	Mar-25-08	15:55	Mar-25-08	16:00
BTEX by EPA 8021B	Extracted:	Apr-01-08	09:00	Mar-28-08	10:10	Mar-28-08	10:10	Mar-28-08	10:10	Mar-28-08	10:10	Mar-28-08	10:10
	Analyzed:	Apr-01-08	12:13	Mar-28-08	17:36	Mar-28-08	17:54	Mar-28-08	18:12	Mar-28-08	18:30	Mar-28-08	18:48
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.0013	0.0010	ND	0.0011	ND	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Toluene		0.0043	0.0020	ND	0.0022	ND	0.0020	ND	0.0020	ND	0.0020	ND	0.0021
Ethylbenzene		0.0021	0.0010	0.0103	0.0011	0.0011	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
m,p-Xylenes		0.0057	0.0020	0.0351	0.0022	0.0024	0.0020	ND	0.0020	ND	0.0020	ND	0.0021
o-Xylene		0.0025	0.0010	0.0079	0.0011	0.0019	0.0010	ND	0.0010	ND	0.0010	ND	0.0010
Xylenes, Total		0.0082		0.043		0.0043		ND		ND		ND	
Total BTEX		0.0159		0.0533		0.0054		ND		ND		ND	
Percent Moisture	Extracted:												
	Analyzed:	Mar-27-08	08:01	Mar-27-08 0	08:03	Mar-27-08	08:04	Mar-27-08	08:05	Mar-27-08	08:06	Mar-27-08	08:07
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		1.33	1.00	8.23	1.00	1.22	1.00	2.24	1.00	ND	1.00	3.17	1.00
TPH By SW8015 Mod	Extracted:	Mar-26-08	16:05	Mar-26-08	16:05	Mar-26-08	16:05	Mar-26-08	16:05	Mar-26-08	16:05	Mar-26-08	16:05
	Analyzed:	Mar-31-08	12:59	Mar-28-08 2	23:52	Mar-29-08	00:18	Mar-31-08	13:25	Mar-31-08	13:51	Mar-29-08	01:37
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	15.2	72.5	16.3	ND	15.2	ND	15.3	ND	15.1	ND	15.5
C12-C28 Diesel Range Hydrocarbons		2810	15.2	894	16.3	91.5	15.2	299	15.3	268	15.1	37.9	15.5
C28-C35 Oil Range Hydrocarbons		1410	15.2	269	16.3	85.4	15.2	278	15.3	301	15.1	ND	15.5
Total TPH		4220		1235.5		176.9		577		569		37.9	
Total Chloride by EPA 9253	Extracted:												
, ·	Analyzed:	Mar-27-08	13:50	Mar-27-08	13:50	Mar-27-08	13:50	Mar-27-08	13:50	Mar-27-08	13:50	Mar-27-08	13:50
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		517	5.07	371	5.45	21.5	5.06	87.0	5.11	21.4	5.02	43.9	5.16

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.

XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron

Odessa Laboratory Director



Project Id: BGT - 003

Contact: Tony Savoie

Project Location:

Southern Union Gas Services-Jal, Jal, NM

Project Name: Trunk M # 2 Drip Tanks

Date Received in Lab: Wed Mar-26-08 09:00 am

Report Date: 01-APR-08

Project Manager: Brent Barron, II

								I I ojece mu		Dient Darion, n	
	Lab Id:	300330-0	007	300330-0	08	300330-0	009	300330-0	10		
An aluaia Domenanta d	Field Id:	Center Pit S	urface	Center Pit 7ft	. BGS	Center Pit 171	ft BGS	Chloride Bas	seline		
Analysis Requested	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Mar-25-08	13:50	Mar-25-08	16:05	Mar-25-08	16:10	Mar-25-08	15:45		
BTEX by EPA 8021B	Extracted:	Mar-28-08	10:10	Mar-31-08	14:00	Mar-31-08	14:00				
v	Analyzed:	Mar-28-08	19:06	Mar-31-08	17:30	Mar-31-08	17:48				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.0010	ND	0.0011	ND	0.0011				
Toluene		0.0124	0.0020	0.0104	0.0022	0.0311	0.0022				
Ethylbenzene		0.0078	0.0010	0.0355	0.0011	0.0675	0.0011				
m,p-Xylenes		0.0404	0.0020	0.1708	0.0022	0.4371	0.0022				
o-Xylene		0.0075	0.0010	0.0473	0.0011	0.1245	0.0011				
Xylenes, Total		0.0479		0.2181		0.5616					
Total BTEX		0.0681		0.264		0.6602					
Percent Moisture	Extracted:										
	Analyzed:	Mar-27-08	08:08	Mar-27-08 (08:09	Mar-27-08	08:10	Mar-27-08	08:11		
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		ND	1.00	8.10	1.00	7.68	1.00	5.02	1.00		
TPH By SW8015 Mod	Extracted:	Mar-26-08	16:05	Mar-26-08	16:05	Mar-26-08	16:05				
	Analyzed:	Mar-31-08	14:16	Mar-29-08 (02:30	Mar-29-08	02:57				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		30.9	15.1	136	16.3	295	16.2				
C12-C28 Diesel Range Hydrocarbons		208	15.1	1280	16.3	1210	16.2				
C28-C35 Oil Range Hydrocarbons		204	15.1	346	16.3	273	16.2				
Total TPH		442.9		1762		1778					
Total Chloride by EPA 9253	Extracted:										
·	Analyzed:	Mar-27-08	13:50	Mar-27-08	13:50	Mar-27-08	13:50	Mar-27-08	13:50		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		21.4	5.02	92.6	5.44	253	5.42	157	5.26		

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Brent Barron

Odessa Laboratory Director



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

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5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
6017 Financial Dr., Norcross, GA 30071	(770) 449-8800	(770) 449-5477





Project Name: Trunk M # 2 Drip Tanks

ork Order #: 300330			Ŭ	D: BGT - 003	,	
Lab Batch #: 718598	Sample: 300330-002 / SMP			ix: Soil		
Units: mg/kg		SU	JRROGATE R	ECOVERY	STUDY	
·	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	nytes	0.0351	0.0200		80.120	
4-Bromofluorobenzene		0.0331	0.0300	117	80-120 80-120	
Lab Batch #: 718598	Sample: 300330-003 / SMP	B	tch: ¹ Matr	ix: Soil	1	
Units: mg/kg			JRROGATE R		STUDY	
	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenzene		0.0344	0.0300	115	80-120	
4-Bromofluorobenzene		0.0303	0.0300	101	80-120	
Lab Batch #: 718598	Sample: 300330-004 / SMP	Ba	tch: ¹ Matr	ix: Soil	, ,	
Units: mg/kg		SU	JRROGATE R		STUDY	
	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
Ana 1,4-Difluorobenzene	lytes	0.0254	0.0200		00.120	
4-Bromofluorobenzene		0.0356	0.0300	83	80-120 80-120	
	G 1 200220 005 / SMD				80-120	
Lab Batch #: 718598 Units: mg/kg	Sample: 300330-005 / SMP		atch: 1 Matr	ix: Soil	STUDV	
BTEX by	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0343	0.0300	114	80-120	
4-Bromofluorobenzene		0.0269	0.0300	90	80-120	
Lab Batch #: 718598	Sample: 300330-006 / SMP	Ba	atch: 1 Matr	ix: Soil		
Units: mg/kg		SU	JRROGATE R	ECOVERY	STUDY	
	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	•				00.100	
1,4-Difluorobenzene		0.0343	0.0300	114	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B





Project Name: Trunk M # 2 Drip Tanks

ork Order #: 300330		D	0	D: BGT - 003	,	
Lab Batch #: 718598	Sample: 300330-007 / SM			ix: Soil		
Units: mg/kg		SL	RROGATE R	ECOVERY	STUDY	
·	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Anal	lytes					
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0349	0.0300	116 87	80-120 80-120	
	G . 50((04.1.DKG/				00-120	
Lab Batch #: 718598 Units: mg/kg	Sample: 506694-1-BKS /		tch: 1 Matr	ix: Solid	STUDY	
	EDA 0031D	Amount	True		Control	
BIEA DY I	EPA 8021B lytes	Found [A]	Amount [B]	Recovery %R [D]	Limits %R	Flags
1.4-Difluorobenzene	lytts	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene		0.0322	0.0300	102	80-120	
Lab Batch #: 718598	Sample: 506694-1-BLK /	BLK Ba	tch: ¹ Matr	ix: Solid	<u>ı </u>	
Units: mg/kg	The second se		RROGATE R		STUDY	
BTEX by I	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Anal	lytes		լոյ	[D]	70K	
1,4-Difluorobenzene		0.0329	0.0300	110	80-120	
4-Bromofluorobenzene		0.0327	0.0300	109	80-120	
Lab Batch #: 718598	Sample: 506694-1-BSD /	BSD Ba	tch: 1 Matr	ix: Solid		
Units: mg/kg		SU	RROGATE R	ECOVERY	STUDY	
BTEX by I Anal	EPA 8021B lytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0314	0.0300	105	80-120	
4-Bromofluorobenzene		0.0316	0.0300	105	80-120	
	Sample: 300330-008 / SM	IP Ba	tch: 1 Matr	ix: Soil		
Lab Batch #: 718668	~ ·····P····				STUDY	
Lab Batch #: 718668 Units: mg/kg	F	SU	RROGATE R	ECOVERY		
Units: mg/kg BTEX by I	EPA 8021B	Amount Found [A]	RROGATE R	Recovery %R	Control Limits %R	Flage
Units: mg/kg	EPA 8021B	Amount Found	True Amount	Recovery	Control Limits	Flags

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B





Project Name: Trunk M # 2 Drip Tanks

ork Order #: 300330	Samela, 200220 000 / SN	ID P	-	D: BGT - 003	,		
Lab Batch #: 718668 Units: mg/kg	Sample: 300330-009 / SN		tch: 1 Matr	ix: Soil	STUDV		
	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage	
Ana	lytes	[**]		[D]	/011		
1,4-Difluorobenzene		0.0378	0.0300	126	80-120	**	
4-Bromofluorobenzene		0.2270	0.0300	757	80-120	**	
Lab Batch #: 718668	Sample: 506728-1-BKS /	BKS Ba	tch: ¹ Matr	ix: Solid			
Units: mg/kg		SU	RROGATE R	ECOVERYS	STUDY		
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage	
1,4-Difluorobenzene	ilytes	0.0308	0.0300	103	80-120		
4-Bromofluorobenzene		0.0331	0.0300	110	80-120		
Lab Batch #: 718668	Sample: 506728-1-BLK /	BLK Ba	tch: 1 Matr	ix: Solid	1 1		
Units: mg/kg	Sumpto	BLK Batch: 1 Matrix: Solid SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage	
Ana	lytes		[1]	[D]			
1,4-Difluorobenzene		0.0327	0.0300	109	80-120		
4-Bromofluorobenzene		0.0335	0.0300	112	80-120		
Lab Batch #: 718668	Sample: 506728-1-BSD /	BSD Ba	tch: 1 Matr	ix: Solid			
Units: mg/kg		SURROGATE RECOVERY STUDY					
	EPA 8021B lytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene		0.0301	0.0300	100	80-120		
4-Bromofluorobenzene		0.0314	0.0300	105	80-120		
Lab Batch #: 718712	Sample: 300330-001 / SM	IP Ba	tch: 1 Matr	ix: Soil			
Units: mg/kg		SURROGATE RECOVERY STUDY					
	EDA 9021D	Amount	True	Recovery	Control Limits	Flags	
BTEX by D		Found [A]	Amount [B]	%R [D]	%R		
	lytes			%R	1		

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B





Project Name: Trunk M # 2 Drip Tanks

ork Order #: 300330		Project I	D: BGT - 003	5			
Lab Batch #: 718712 Sampl	e: 506754-1-BKS / BKS Ba	tch: 1 Matr	ix: Solid				
Units: mg/kg	RROGATE R	RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes							
1,4-Difluorobenzene 4-Bromofluorobenzene	0.0330	0.0300	110	80-120			
	0.0351	0.0300	117	80-120			
Lab Batch #: 718712 Sampl Units: mg/kg		LK / BLK Batch: 1 Matrix: Solid SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B		True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0325	0.0300	108	80-120			
4-Bromofluorobenzene	0.0339	0.0300	113	80-120			
•			ix: Solid				
Units: mg/kg	SU	RROGATE R	ECOVERY S	STUDY			
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene	0.0221	0.0200		80.120			
4-Bromofluorobenzene	0.0331	0.0300	110	80-120 80-120			
				00-120			
•							
Units: mg/kg		SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	83.6	100	84	70-135			
o-Terphenyl	39.4	50.0	79	70-135			
Lab Batch #: 718573 Sampl	e: 300300-003 SD / MSD Ba	tch: 1 Matr	ix: Soil				
Units: mg/kg		SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
· · · ·	0.57	100	07	70.125			
1-Chlorooctane	86.7	100	87	70-135			

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B





Project Name: Trunk M # 2 Drip Tanks

ork Order #: 300330			Project II	D: BGT - 003	3		
Lab Batch #: 718573	Sample: 300330-001 / SMP	Ba	tch: 1 Matri	ix: Soil			
Units: mg/kg		SURROGATE RECOVERY STUDY					
TPH By SW80		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analyte	S						
1-Chlorooctane o-Terphenyl		82.8	50.0	83 88	70-135		
Lab Batch #: 718573	Sample: 300330-002 / SMP	Ba	tch: 1 Matri	ix: Soil	1		
Units: mg/kg		SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analyte 1-Chlorooctane	8	84.7	100	85	70-135		
o-Terphenyl		44.4	50.0	89	70-135		
Lab Batch #: 718573	Sample: 300330-003 / SMP	Ba	tch: 1 Matri	ix: Soil	1		
Units: mg/kg	Γ	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	5	78.8	100	79	70-135		
o-Terphenyl		39.4	50.0	79	70-135		
Lab Batch #: 718573	Sample: 300330-004 / SMP			ix: Soil			
Units: mg/kg		SURROGATE RECOVERY STUDY					
TPH By SW80 Analyte		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		87.4	100	87	70-135		
o-Terphenyl		44.8	50.0	90	70-135		
Lab Batch #: 718573	Sample: 300330-005 / SMP	Ba	tch: 1 Matr	ix: Soil	· · ·		
Units: mg/kg	Г	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		82.3	100	82	70-135		

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B


Form 2 - Surrogate Recoveries



Project Name: Trunk M # 2 Drip Tanks

ork Order #: 300330			Project I	D: BGT - 003	3	
Lab Batch #: 718573	Sample: 300330-006 / SMP			ix: Soil		
Units: mg/kg		SU	JRROGATE R	ECOVERY	STUDY	
TPH By SV		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Anal 1-Chlorooctane	lytes	81.5	100		70-135	
o-Terphenyl		41.6	100 50.0	82	70-135	
Lab Batch #: 718573	Sample: 300330-007 / SMP	Ba	tch: 1 Matr	ix: Soil	1 1	
Units: mg/kg	~ _	SU	JRROGATE R		STUDY	
TPH By SV		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Anal 1-Chlorooctane	lytes	101	100	101	70-135	
o-Terphenyl		49.7	50.0	99	70-135	
	a 1 200220 008 / SMD					
Lab Batch #: 718573 Units: mg/kg	Sample: 300330-008 / SMP		ntch: 1 Matr	ix: Soil ECOVERY S	STUDY	
TPH By SV		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Anal	lytes					
1-Chlorooctane o-Terphenyl		77.6	100	78	70-135	
0-1erpnenyi		40.6	50.0	81	70-135	
Lab Batch #: 718573	Sample: 300330-009 / SMP			ix: Soil		
Units: mg/kg		SU	JRROGATE R	ECOVERY	STUDY	
TPH By SV Anal		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		81.4	100	81	70-135	
o-Terphenyl		41.5	50.0	83	70-135	
Lab Batch #: 718573	Sample: 506670-1-BKS / BI	KS Ba	tch: 1 Matr	ix: Solid		
Units: mg/kg	Γ	SU	IRROGATE R	ECOVERY	STUDY	
TPH By SV		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Ana	lytes					
1-Chlorooctane	lytes	84.5	100	85	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries



Project Name: Trunk M # 2 Drip Tanks

Vork Order #: 300330		Project II	D: BGT - 003	;	
Lab Batch #: 718573 Sample: 506670-1-BLK /	BLK Ba	tch: 1 Matri	x: Solid		
Units: mg/kg	SU	RROGATE RE	ECOVERY S	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes 1-Chlorooctane	78.9	100	[D]	70-135	
o-Terphenyl	41.3	50.0	83	70-135	
Lab Batch #: 718573 Sample: 506670-1-BSD /	BSD Ba	tch: ¹ Matri	x: Solid	· · · ·	
Units: mg/kg	SU	RROGATE RE	ECOVERY S	STUDY	
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes 1-Chlorooctane	87.4	100	87	70-135	
o-Terphenyl	40.6	50.0	81	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.





Work Order #: 300330			Pro	oject ID:		BC	GT - 003
Lab Batch #: 718333 Date Analyzed: 03/27/2008		mple: 718333- pared: 03/27/20			x: Solid st: IRO		
Reporting Units: mg/kg	Ba	t ch #: 1	BLANK /B	BLANK SPI	KE REC	COVERY S	STUDY
Total Chloride by EPA 9253		Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes		[]	r=1	[C]	[D]		
Chloride		ND	100	89.3	89	75-125	

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes.





Work Order #: 300330							Pro	ject ID: H	3GT - 003		
Analyst: SHE	Da	ate Prepar	red: 03/28/200)8			Date A	nalyzed: (3/28/2008		
Lab Batch ID: 718598 Sample: 506694-1-H	3KS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / B	BLANK S	PIKE DUPI	JCATE 1	RECOVE	ERY STUD	Y	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.0936	94	0.1	0.0896	90	4	70-130	35	
Toluene	ND	0.1000	0.0916	92	0.1	0.0882	88	4	70-130	35	
Ethylbenzene	ND	0.1000	0.0995	100	0.1	0.0943	94	5	71-129	35	
m,p-Xylenes	ND	0.2000	0.1951	98	0.2	0.1867	93	4	70-135	35	
o-Xylene	ND	0.1000	0.1002	100	0.1	0.0960	96	4	71-133	35	
	ND	0.1000	0.1002	100	0.1	0.0900	70	-	/1-155	35	
Analyst: SHE			red: 03/31/200		0.1	0.0900			3/31/2008	55	
	Da	ate Prepar			0.1	0.0900	Date A		3/31/2008	55	
Analyst: SHE	Da	ate Prepar Batel	red: 03/31/200)8			Date A	nalyzed: () Matrix: S)3/31/2008 Solid		
Analyst: SHE Lab Batch ID: 718668 Sample: 506728-1-H Units: ^{mg/kg} BTEX by EPA 8021B	Da	ate Prepar Batel	red: 03/31/200 h #: 1)8			Date A	nalyzed: () Matrix: S)3/31/2008 Solid		Flag
Analyst: SHE Lab Batch ID: 718668 Sample: 506728-1-F Units: ^{mg/kg} BTEX by EPA 8021B Analytes	Da BKS Blank Sample Result [A]	nte Prepar Batcl BLAN Spike Added [B]	red: 03/31/200 h #: 1 K /BLANK S Blank Spike Result [C])8 SPIKE / B Blank Spike %R [D]	Spike Added [E]	PIKE DUPI Blank Spike Duplicate Result [F]	Date An JCATE J Blk. Spk Dup. %R [G]	nalyzed: () Matrix: S RECOVE RPD %	03/31/2008 Golid CRY STUD Control Limits %R	Y Control Limits %RPD	Flag
Analyst: SHE Lab Batch ID: 718668 Sample: 506728-1-E Units: mg/kg BTEX by EPA 8021B Analytes Benzene	Da BKS Blank Sample Result [A] ND	ate Prepar Batcl BLAN Spike Added [B] 0.1000	red: 03/31/200 h #: 1 K /BLANK S Blank Spike Result [C] 0.0869	SPIKE / B Blank Spike %R [D] 87	Spike Added [E]	BIANK Blank Spike Duplicate Result [F] 0.0860	Date An LICATE 1 Blk. Spk Dup. %R [G] 86	nalyzed: () Matrix: S RECOVE RPD %	03/31/2008 Golid CRY STUD Control Limits %R 70-130	Y Control Limits %RPD 35	Flag
Analyst: SHE Lab Batch ID: 718668 Sample: 506728-1-F Units: ^{mg/kg} BTEX by EPA 8021B Analytes Benzene Toluene	Da BKS Blank Sample Result [A] ND ND	Ate Prepar Batcl BLAN Spike Added [B] 0.1000 0.1000	red: 03/31/200 h #: 1 K /BLANK S Blank Spike Result [C] 0.0869 0.0850)8 SPIKE / B Blank Spike %R [D] 87 85	Spike Added [E] 0.1 0.1	Blank Spike Duplicate Result [F] 0.0860 0.0844	Date An JCATE D Blk. Spk Dup. %R [G] 86 84	nalyzed: () Matrix: S RECOVE RPD % 1 1	03/31/2008 Solid ERY STUD Control Limits %R 70-130 70-130	Y Control Limits %RPD 35 35	Flag
Analyst: SHE Lab Batch ID: 718668 Sample: 506728-1-E Units: mg/kg BTEX by EPA 8021B Analytes Benzene	Da BKS Blank Sample Result [A] ND	ate Prepar Batcl BLAN Spike Added [B] 0.1000	red: 03/31/200 h #: 1 K /BLANK S Blank Spike Result [C] 0.0869	SPIKE / B Blank Spike %R [D] 87	Spike Added [E]	BIANK Blank Spike Duplicate Result [F] 0.0860	Date An LICATE 1 Blk. Spk Dup. %R [G] 86	nalyzed: () Matrix: S RECOVE RPD %	03/31/2008 Golid CRY STUD Control Limits %R 70-130	Y Control Limits %RPD 35	Flag

Relative Percent Difference RPD = $200^{*}|(D-F)/(D+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes





Work Order #: 300330							Pro	ject ID: E	3GT - 003		
Analyst: SHE	Da	ate Prepar	ed: 04/01/200	8			Date A	nalyzed: (4/01/2008		
Lab Batch ID: 718712 Sample: 506754-1-E	SKS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / B	BLANK S	PIKE DUPI	LICATE	RECOVE	ERY STUD	Y	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	ND	0.1000	0.0838	84	0.1	0.0909	91	8	70-130	35	
Toluene	ND	0.1000	0.0835	84	0.1	0.0902	90	8	70-130	35	
Ethylbenzene	ND	0.1000	0.0906	91	0.1	0.0973	97	7	71-129	35	
m,p-Xylenes	ND	0.2000	0.1812	91	0.2	0.1932	97	6	70-135	35	
o-Xylene	ND	0.1000	0.0961	96	0.1	0.1025	103	6	71-133	35	
Analyst: ASA	Da	ate Prepar	red: 03/26/200	8			Date A	nalyzed: (3/28/2008		
Lab Batch ID: 718573 Sample: 506670-1-E	SKS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPI	LICATE]	RECOVE	ERY STUD	Y	
TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	863	86	1000	885	89	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	801	80	1000	815	82	2	70-135	35	

Relative Percent Difference RPD = $200^{*}|(D-F)/(D+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Trunk M # 2 Drip Tanks



Work Order #: 300330						Project II	D: BGT -	003			
Lab Batch ID: 718573	QC- Sample ID:	300300	-003 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed: 03/29/2008	Date Prepared:	03/26/2	008	An	alyst:	ASA					
Reporting Units: mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1240	993	80	1240	1030	83	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	113	1240	1050	76	1240	1140	83	9	70-135	35	
Lab Batch ID: 718333	QC- Sample ID:	300330	-002 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed: 03/27/2008	Date Prepared:	03/27/2	008	An	alyst:	IRO					
Reporting Units: mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Total Chloride by EPA 9253	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	%R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Chloride	371	2180	2550	100	2180	2570	101	1	75-125	30	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}(D-G)/(D+G)$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit





Work Order #: 300330

Lab Batch #: 718254			-	D: BGT - 00	3
Date Analyzed: 03/27/2008 Date I QC- Sample ID: 300330-001 D	Prepared: 03/2 Batch #: 1	27/2008	·	st: IRO ix: Soil	
Reporting Units: %		/ SAMPLE			OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	1.33	1.58	17	20	

Spike Relative Difference RPD 200 * $|\,(B\text{-}A)/(B\text{+}A)\,|$ All Results are based on MDL and validated for QC purposes.

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Relinquished by:	De. Nich	13/26/cg	Time しんの		Received by:								Date		Time		Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	n con seals seals	on co	s) ntain oler(s	er(s)				zzz	
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Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

Client:	SUGS.
Date/ Time:	326.08 09:00
Lab ID # :	300330
Initials:	al

Sample Receipt Checklist

		_		C	lient Initials
#1	Temperature of container/ cooler?	Yes	No	3.0 °C	
#2	Shipping container in good condition?	(res)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes)	No		
#6	Sample instructions complete of Chain of Custody?	Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes)	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	· · · · · · · · · · · · · · · · · · ·
#13	Samples properly preserved?	Yes)	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable>	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact:	 Contacted by:	Date/ Time:
Regarding:		
Corrective Action Taken:		
Check all that Apply:	See attached e-mail/ fax Client understands and would like to proceed with and Cooling process had begun shortly after sampling ever	•

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March 18, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: TRUNK M #2 DRIP TANKS

Enclosed are the results of analyses for samples received by the laboratory on 03/15/13 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/15/2013	Sampling Date:	03/15/2013
Reported:	03/18/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SW #1 (H300645-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	482	10.0	03/15/2013	ND	192	95.9	200	0.902	
EXT DRO >C28-C35	103	10.0	03/15/2013	ND					
Surrogate: 1-Chlorooctane	81.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

Sample ID: WW #1 (H300645-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	<10.0	10.0	03/15/2013	ND	192	95.9	200	0.902	
EXT DRO >C28-C35	10.5	10.0	03/15/2013	ND					
Surrogate: 1-Chlorooctane	87.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/15/2013	Sampling Date:	03/15/2013
Reported:	03/18/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: WW #2 (H300645-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2013	ND	192	96.2	200	0.686	
DR0 >C10-C28	362	10.0	03/15/2013	ND	192	95.9	200	0.902	
EXT DRO >C28-C35	107	10.0	03/15/2013	ND					
Surrogate: 1-Chlorooctane	89.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	119	% 63.6-15	4						

Sample ID: WW #4 (H300645-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	322	10.0	03/15/2013	ND	192	95.9	200	0.902	
EXT DRO >C28-C35	65.7	10.0	03/15/2013	ND					
Surrogate: 1-Chlorooctane	87.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	119	% 63.6-15	4						

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*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/15/2013	Sampling Date:	03/15/2013
Reported:	03/18/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EW #2 (H300645-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	61.6	50.0	03/15/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	4660	50.0	03/15/2013	ND	192	95.9	200	0.902	
EXT DRO >C28-C35	1040	50.0	03/15/2013	ND					
Surrogate: 1-Chlorooctane	77.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	359	% 63.6-15	4						

Sample ID: EW #3 (H300645-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2013	ND	192	96.2	200	0.686	
DR0 >C10-C28	38.8	10.0	03/15/2013	ND	192	95.9	200	0.902	
EXT DRO >C28-C35	30.7	10.0	03/15/2013	ND					
Surrogate: 1-Chlorooctane	74.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	83.2	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/15/2013	Sampling Date:	03/15/2013
Reported:	03/18/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NW #3 (H300645-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.0	10.0	03/15/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	483	10.0	03/15/2013	ND	192	95.9	200	0.902	
EXT DRO >C28-C35	98.3	10.0	03/15/2013	ND					
Surrogate: 1-Chlorooctane	80.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111	63.6-15	4						

Sample ID: STOCKPILE (H300645-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	57.4	10.0	03/15/2013	ND	192	95.9	200	0.902	
EXT DRO >C28-C35	37.5	10.0	03/15/2013	ND					
Surrogate: 1-Chlorooctane	84.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

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*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/15/2013	Sampling Date:	03/15/2013
Reported:	03/18/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: STRIP SAND (H300645-09)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0 16.0		03/18/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/18/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	<50.0	50.0	03/18/2013	ND	192	95.9	200	0.902	
EXT DRO >C28-C35	<50.0	50.0	03/18/2013	ND					
Surrogate: 1-Chlorooctane	95.1 % 65.2-140		0						
Surrogate: 1-Chlorooctadecane	99.3 % 63.6-154		4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Submittal of samples constitutes agreement to Terms and Conditions ORIGINAL COPY	Relinquished by: Company: Date: Time: Received by: Company: Date: Time: INST OBS COR	rysiinquisheg by: 2200mpany: Date: Lime: Hysreived by: Company: Date: Time: INST OBS COR	Marsin 3/15/13 3:20 Will Jundar 3/15/13 COR	St-1p Sand C 1 1 1 2/15	stock pile C 1 X I X	NWA3 6 V K K	5 EWH2 5/1 3/1 3/1 3/1	4 ww 4 4 6 1 X X X 3/r			(G)RAB or (C) # CONTAINEI WATER SOIL AIR SLUDGE HCL HNO ₃ H ₂ SO ₄ NaOH ICE NONE DATE	2 MATRIX PRESERVATIVE	Project Location: (include state) Lea County, NM Signature Lea V/VUL	Project #: Project Name: Trunk M#2 Drip Tanks	Invoice to: Rose Slade @ Southern Union Gas	Contact Person: E-mail: jwlowry@basinenv.com rose.slade@sug.com cyndi.inskeep@sug.com	Address: P.O. Box 301 Lovington, NM 88260 Fax #: (575)396-1429	Company Name: Basin Environmental Service Technologies, LLC Phone #: (575)396-2378	Cardinal Laboratories Tel (575) 333-2326 Fax (575) 333-2476	LAB Order ID #
		°C Intact √C Headspace <u>Y / N /NA</u> TRRP Report Required	SC LAB USE REMARKS: 2USH!!				9		10:43 (DATE TIME Chloride TPH 8015M BTEX 8021B				andard		<u> </u>	(Circle or Specify Method No.) Pag	e 8 of 8	Page



April 05, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: TRUNK M #2 DRIP TANKS

Enclosed are the results of analyses for samples received by the laboratory on 04/03/13 8:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/03/2013	Sampling Date:	04/02/2013
Reported:	04/05/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: PIT TEST TRENCH @ 24' (H300778-01)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2013	ND	1.63	81.4	2.00	16.1	
Toluene*	0.122	0.050	04/05/2013	ND	1.81	90.7	2.00	17.0	
Ethylbenzene*	0.397	0.050	04/05/2013	ND	1.92	95.8	2.00	15.6	
Total Xylenes*	1.42	0.150	04/05/2013	ND	5.76	96.1	6.00	13.9	
Total BTEX	1.94	0.300	04/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	211	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/03/2013	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	144	10.0	04/03/2013	ND	205	103	200	4.44	
DRO >C10-C28	> C10-C28 455 10.0		04/03/2013	ND	199	99.6	200	3.61	
EXT DRO >C28-C35	54.1	10.0	04/03/2013	ND					
Surrogate: 1-Chlorooctane	100	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/03/2013	Sampling Date:	04/02/2013
Reported:	04/05/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: PIT TEST TRENCH @ 29' (H300778-02)

BTEX 8021B	mg,	/kg	Analyze	d By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2013	ND	1.63	81.4	2.00	16.1	
Toluene*	0.052	0.050	04/05/2013	ND	1.81	90.7	2.00	17.0	
Ethylbenzene*	0.155	0.050	04/05/2013	ND	1.92	95.8	2.00	15.6	
Total Xylenes*	0.632	0.150	04/05/2013	ND	5.76	96.1	6.00	13.9	
Total BTEX	0.840	0.300	04/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	141	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/03/2013	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	70.9	10.0	04/03/2013	ND	205	103	200	4.44	
DRO >C10-C28	263	10.0	04/03/2013	ND	199	99.6	200	3.61	
EXT DRO >C28-C35	33.7	10.0	04/03/2013	ND					
Surrogate: 1-Chlorooctane	88.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane 9		% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

submittal of samples	Relinquished by:	Keinquisned	Daved Joz	Relinguished by:							2				Project Location: (include state)	Project #:	Invoice to:	Contact Person:	Address:	Company Name:		LAB Order ID #
Submittal of samples constitutes agreement to Terms and Conditions	Company: Date:	1453-		Company: Date:							Pit Test Trench @ 29'	Pit Test Trench @ 24'					Southern Union Gas		P.O. Lovingto	Basin Environmental Service Technologies, LLC	Cardinal L	
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April 08, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: TRUNK M #2 DRIP TANKS

Enclosed are the results of analyses for samples received by the laboratory on 04/04/13 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/04/2013	Sampling Date:	04/03/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	RP-1819	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC. B MIDDLE FLOOR (H300800-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/05/2013	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/05/2013	ND	203	102	200	2.50	
DRO >C10-C28	108	50.0	04/05/2013	ND	201	100	200	2.32	
EXT DRO >C28-C35	208	50.0	04/05/2013	ND					
Surrogate: 1-Chlorooctane	55.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	117 9	63.6-15	4						

Sample ID: EXC. B EAST WALL #1 (H300800-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/05/2013	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/05/2013	ND	203	102	200	2.50	
DRO >C10-C28	368	10.0	04/05/2013	ND	201	100	200	2.32	
EXT DRO >C28-C35	57.6	10.0	04/05/2013	ND					
Surrogate: 1-Chlorooctane	96.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/04/2013	Sampling Date:	04/03/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	RP-1819	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC. B EAST WALL #2 (H300800-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	04/05/2013	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/05/2013	ND	203	102	200	2.50	
DRO >C10-C28	140	10.0	04/05/2013	ND	201	100	200	2.32	
EXT DRO >C28-C35	25.5	10.0	04/05/2013	ND					
Surrogate: 1-Chlorooctane	89.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114	% 63.6-15	4						

Sample ID: EXC. B WEST WALL #1 (H300800-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/05/2013	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/05/2013	ND	203	102	200	2.50	
DRO >C10-C28	<10.0	10.0	04/05/2013	ND	201	100	200	2.32	
EXT DRO >C28-C35	<10.0	10.0	04/05/2013	ND					
Surrogate: 1-Chlorooctane	87.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/04/2013	Sampling Date:	04/03/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	RP-1819	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC. B WEST WALL #2 (H300800-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/05/2013	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/05/2013	ND	203	102	200	2.50	
DRO >C10-C28	<10.0	10.0	04/05/2013	ND	201	100	200	2.32	
EXT DRO >C28-C35	<10.0	10.0	04/05/2013	ND					
Surrogate: 1-Chlorooctane	81.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

Sample ID: EXC. B NORTH WALL #1 (H300800-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	04/05/2013	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	122	10.0	04/05/2013	ND	203	102	200	2.50	
DRO >C10-C28	1200	10.0	04/05/2013	ND	201	100	200	2.32	
EXT DRO >C28-C35	149	10.0	04/05/2013	ND					
Surrogate: 1-Chlorooctane	116	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	129	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/04/2013	Sampling Date:	04/03/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	RP-1819	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC. B NORTH WALL #2 (H300800-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	04/05/2013	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/06/2013	ND	208	104	200	7.77	
DRO >C10-C28	289	10.0	04/06/2013	ND	206	103	200	6.90	
EXT DRO >C28-C35	43.1	10.0	04/06/2013	ND					
Surrogate: 1-Chlorooctane	98.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	125	% 63.6-15	4						

Sample ID: EXC. A NORTH WALL (H300800-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/05/2013	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	24.7	10.0	04/06/2013	ND	208	104	200	7.77	
DRO >C10-C28	535	10.0	04/06/2013	ND	206	103	200	6.90	
EXT DRO >C28-C35	78.2	10.0	04/06/2013	ND					
Surrogate: 1-Chlorooctane	102	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	120	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/04/2013	Sampling Date:	04/03/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	RP-1819	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC. A WEST WALL (H300800-09)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/05/2013	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/06/2013	ND	208	104	200	7.77	
DR0 >C10-C28	241	10.0	04/06/2013	ND	206	103	200	6.90	
EXT DRO >C28-C35	48.8	10.0	04/06/2013	ND					
Surrogate: 1-Chlorooctane	95.6 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	118 %	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

	Submittal of samples	Kelinquished by:	KK	Relinquished by:	your form	Relinquished by:		-9	æ	2	2	ۍ ا		Ś	2				Project Location: (include state)	Project #:	Invoice to:	Contact Person:	Address:	Company Name:		LAB Order ID #
	constitutes agreement to Terms and Conditions	Company: Date: Time:	el 44	Company: Date: Time:	× 4/4/13 7:00	Company: Date: Time:		Exc. A West Wall	Exc. A North Wall	Exc. B North Wall #2	Exc. B North Wall #1	Exc. B West Wall #2	Exc. B West Wall #1	Exc. B East Wall #2	Exc. B East Wall #1	Exc. B Middle Floor	SAMPLE ID			RP-1819	Southern Union Gas		P.O. Box 301 Lovington, NM 88260	Basin Environmental Service Technologies, LLC	ardinal Laboratories	
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April 08, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: TRUNK M #2 DRIP TANKS

Enclosed are the results of analyses for samples received by the laboratory on 04/05/13 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EAST WALL #2 B (H300824-01)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2013	ND	2.02	101	2.00	0.583	
Toluene*	<0.050	0.050	04/08/2013	ND	2.27	114	2.00	2.64	
Ethylbenzene*	<0.050	0.050	04/08/2013	ND	2.36	118	2.00	1.28	
Total Xylenes*	<0.150	0.150	04/08/2013	ND	6.81	114	6.00	1.48	
Total BTEX	<0.300	0.300	04/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/08/2013	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2013	ND	196	98.0	200	3.77	
DRO >C10-C28	23.1	10.0	04/08/2013	ND	190	95.2	200	4.84	
EXT DRO >C28-C35	<10.0	10.0	04/08/2013	ND					
Surrogate: 1-Chlorooctane	78.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC A FLOOR A (H300824-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2013	ND	2.02	101	2.00	0.583	
Toluene*	<0.050	0.050	04/08/2013	ND	2.27	114	2.00	2.64	
Ethylbenzene*	<0.050	0.050	04/08/2013	ND	2.36	118	2.00	1.28	
Total Xylenes*	<0.150	0.150	04/08/2013	ND	6.81	114	6.00	1.48	
Total BTEX	<0.300	0.300	04/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/08/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2013	ND	196	98.0	200	3.77	
DRO >C10-C28	247	10.0	04/08/2013	ND	190	95.2	200	4.84	
EXT DRO >C28-C35	46.3	10.0	04/08/2013	ND					
Surrogate: 1-Chlorooctane	80.1	65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC A FLOOR B (H300824-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2013	ND	2.02	101	2.00	0.583	
Toluene*	<0.050	0.050	04/08/2013	ND	2.27	114	2.00	2.64	
Ethylbenzene*	<0.050	0.050	04/08/2013	ND	2.36	118	2.00	1.28	
Total Xylenes*	<0.150	0.150	04/08/2013	ND	6.81	114	6.00	1.48	
Total BTEX	<0.300	0.300	04/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/08/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2013	ND	196	98.0	200	3.77	
DRO >C10-C28	232	10.0	04/08/2013	ND	190	95.2	200	4.84	
EXT DRO >C28-C35	61.1	10.0	04/08/2013	ND					
Surrogate: 1-Chlorooctane	86.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC A FLOOR C (H300824-04)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2013	ND	2.02	101	2.00	0.583	
Toluene*	<0.050	0.050	04/08/2013	ND	2.27	114	2.00	2.64	
Ethylbenzene*	0.262	0.050	04/08/2013	ND	2.36	118	2.00	1.28	
Total Xylenes*	0.827	0.150	04/08/2013	ND	6.81	114	6.00	1.48	
Total BTEX	1.09	0.300	04/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	191	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/08/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	97.6	10.0	04/08/2013	ND	196	98.0	200	3.77	
DRO >C10-C28	541	10.0	04/08/2013	ND	190	95.2	200	4.84	
EXT DRO >C28-C35	76.1	10.0	04/08/2013	ND					
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	130	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC A FLOOR D (H300824-05)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2013	ND	2.02	101	2.00	0.583	
Toluene*	1.09	0.050	04/08/2013	ND	2.27	114	2.00	2.64	
Ethylbenzene*	2.49	0.050	04/08/2013	ND	2.36	118	2.00	1.28	
Total Xylenes*	8.31	0.150	04/08/2013	ND	6.81	114	6.00	1.48	
Total BTEX	11.9	0.300	04/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	460	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/08/2013	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	603	10.0	04/08/2013	ND	196	98.0	200	3.77	
DRO >C10-C28	1160	10.0	04/08/2013	ND	190	95.2	200	4.84	
EXT DRO >C28-C35	140	10.0	04/08/2013	ND					
Surrogate: 1-Chlorooctane	120	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	124	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager


Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC B SOUTH WALL #1 (H300824-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2013	ND	2.02	101	2.00	0.583	
Toluene*	<0.050	0.050	04/08/2013	ND	2.27	114	2.00	2.64	
Ethylbenzene*	0.058	0.050	04/08/2013	ND	2.36	118	2.00	1.28	
Total Xylenes*	<0.150	0.150	04/08/2013	ND	6.81	114	6.00	1.48	
Total BTEX	<0.300	0.300	04/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/08/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2013	ND	196	98.0	200	3.77	
DRO >C10-C28	382	10.0	04/08/2013	ND	190	95.2	200	4.84	
EXT DRO >C28-C35	133	10.0	04/08/2013	ND					
Surrogate: 1-Chlorooctane	84.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	120 9	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC B SOUTH WALL #2 (H300824-07)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2013	ND	2.02	101	2.00	0.583	
Toluene*	<0.050	0.050	04/08/2013	ND	2.27	114	2.00	2.64	
Ethylbenzene*	<0.050	0.050	04/08/2013	ND	2.36	118	2.00	1.28	
Total Xylenes*	<0.150	0.150	04/08/2013	ND	6.81	114	6.00	1.48	
Total BTEX	<0.300	0.300	04/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	04/08/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2013	ND	196	98.0	200	3.77	
DRO >C10-C28	305	10.0	04/08/2013	ND	190	95.2	200	4.84	
EXT DRO >C28-C35	107	10.0	04/08/2013	ND					
Surrogate: 1-Chlorooctane	93.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	134 9	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC B FLOOR A (H300824-08)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2013	ND	2.02	101	2.00	0.583	
Toluene*	4.21	0.050	04/08/2013	ND	2.27	114	2.00	2.64	
Ethylbenzene*	5.62	0.050	04/08/2013	ND	2.36	118	2.00	1.28	
Total Xylenes*	23.9	0.150	04/08/2013	ND	6.81	114	6.00	1.48	
Total BTEX	33.7	0.300	04/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	enzene (PID 822 % 89.4-12		6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/08/2013	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1680	50.0	04/08/2013	ND	196	98.0	200	3.77	
DRO >C10-C28	1750	50.0	04/08/2013	ND	190	95.2	200	4.84	
EXT DRO >C28-C35	223	50.0	04/08/2013	ND					
Surrogate: 1-Chlorooctane	175	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	130	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/08/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC B FLOOR B (H300824-09)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2013	ND	2.02	101	2.00	0.583	
Toluene*	0.057	0.050	04/08/2013	ND	2.27	114	2.00	2.64	
Ethylbenzene*	0.108	0.050	04/08/2013	ND	2.36	118	2.00	1.28	
Total Xylenes*	0.350	0.150	04/08/2013	ND	6.81	114	6.00	1.48	
Total BTEX	0.516	0.300	04/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID 125 %		% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/08/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.9	10.0	04/08/2013	ND	196	98.0	200	3.77	
DRO >C10-C28	356	10.0	04/08/2013	ND	190	95.2	200	4.84	
EXT DRO >C28-C35	56.3	10.0	04/08/2013	ND					
Surrogate: 1-Chlorooctane	103 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	129 9	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

	Relinquished by: Date	Relinquished by:		Special Instructions:		PD	FINA A	la la la la la la	CACA LIVE	EXC N.	A 151000	EKC A FLOOR	2 C. A Floor A	- Fastwall HZR	FIELD CODE	# (lab use only)	APPER # 4200 824	(lab use only)	Sampler Signature:	Telephone No: (575)396-2378	City/State/Zip: Lovington, NM 88260	Company Address: P.O. Box 301	Company Name Basin Environmental Service Lechninges, Leo			Xenco Laboratories
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April 22, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: TRUNK M #2 DRIP TANKS

Enclosed are the results of analyses for samples received by the laboratory on 04/11/13 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/11/2013	Sampling Date:	04/10/2013
Reported:	04/22/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC. B SOUTH WALL #2B (H300858-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2013	ND	1.89	94.3	2.00	22.2	
Toluene*	<0.050	0.050	04/19/2013	ND	1.90	95.0	2.00	21.2	
Ethylbenzene*	<0.050	0.050	04/19/2013	ND	1.87	93.4	2.00	22.0	
Total Xylenes*	0.217	0.150	04/19/2013	ND	5.55	92.4	6.00	21.0	
Total BTEX	<0.300	0.300	04/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	161	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2013	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	52.5	10.0	04/11/2013	ND	214	107	200	1.94	
DRO >C10-C28	573	10.0	04/11/2013	ND	210	105	200	3.26	
EXT DRO >C28-C35	73.2	10.0	04/11/2013	ND					
Surrogate: 1-Chlorooctane	108	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	141	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/11/2013	Sampling Date:	04/10/2013
Reported:	04/22/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC. B BSOUTH WALL #1B (H300858-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2013	ND	1.89	94.3	2.00	22.2	
Toluene*	<0.050	0.050	04/19/2013	ND	1.90	95.0	2.00	21.2	
Ethylbenzene*	<0.050	0.050	04/19/2013	ND	1.87	93.4	2.00	22.0	
Total Xylenes*	0.212	0.150	04/19/2013	ND	5.55	92.4	6.00	21.0	
Total BTEX	<0.300	0.300	04/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	161	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/11/2013	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	55.3	10.0	04/11/2013	ND	214	107	200	1.94	
DRO >C10-C28	727	10.0	04/11/2013	ND	210	105	200	3.26	
EXT DRO >C28-C35	113	10.0	04/11/2013	ND					
Surrogate: 1-Chlorooctane	107	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	120	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/11/2013	Sampling Date:	04/10/2013
Reported:	04/22/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC. B EAST WALL #3 (H300858-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2013	ND	1.89	94.3	2.00	22.2	
Toluene*	<0.050	0.050	04/19/2013	ND	1.90	95.0	2.00	21.2	
Ethylbenzene*	<0.050	0.050	04/19/2013	ND	1.87	93.4	2.00	22.0	
Total Xylenes*	<0.150	0.150	04/19/2013	ND	5.55	92.4	6.00	21.0	
Total BTEX	<0.300	0.300	04/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/11/2013	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/11/2013	ND	214	107	200	1.94	
DRO >C10-C28	224	10.0	04/11/2013	ND	210	105	200	3.26	
EXT DRO >C28-C35	44.9	10.0	04/11/2013	ND					
Surrogate: 1-Chlorooctane	94.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 9	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/11/2013	Sampling Date:	04/10/2013
Reported:	04/22/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC. B WEST WALL #3 (H300858-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2013	ND	1.89	94.3	2.00	22.2	
Toluene*	<0.050	0.050	04/19/2013	ND	1.90	95.0	2.00	21.2	
Ethylbenzene*	0.319	0.050	04/19/2013	ND	1.87	93.4	2.00	22.0	
Total Xylenes*	1.30	0.150	04/19/2013	ND	5.55	92.4	6.00	21.0	
Total BTEX	1.62	0.300	04/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	309	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/11/2013	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	132	10.0	04/11/2013	ND	214	107	200	1.94	
DRO >C10-C28	853	10.0	04/11/2013	ND	210	105	200	3.26	
EXT DRO >C28-C35	124	10.0	04/11/2013	ND					
Surrogate: 1-Chlorooctane	106	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	129	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

AB Order ID #	101 East Marland Hobbs, Marland Extension 2020		Page <u>1</u> of <u>5</u>	f 7
ompany Name: Basin Environmental Service Technologies, LLC	Phone #: (575)396-2378	Ar (Circle o	ANALYSIS REQUEST or Specify Method No.)	Page
P.O. Box 301 Lovington, NM 88260	Fax #: (575)396-1429			
Contact Person:	E-mail: pm@basinenv.com, rose.slade@sug.com.cyndi.inskeep@sug.com		ard	
nvoice to: Southern Union Gas		1/19	n stand	
Project #:	Project Name: Trunk M#2 Drip Tanks	(4	ent froi	
Project Location: (include state)	Sampler Signature: Marka Spectly	ddea) if differe	
(C)OMP	MATRIX PRESERVATIVE SAMPLING		bound Tim	
G)RAB or (WATER SOIL AIR SLUDGE HCL HNO ₃ H ₂ SO ₄ NaOH ICE NONE DATE	Chloride TPH 8015 BTEX 80:		Hold
Exc. B South Wall # 2 b U	1 1 1 1 1 1 1 1 1 0 2:00			
SB	4/10			
B l-ast Wall #3	× 107			
U Exc B West Wall #3 6 1				
Relinquished by: Company: Date: Time: Received by:	Time:	LAB USE ONLY	REMARKS:	
Company: Date:	Date: Tigneo	Intact <u>Y / N</u> Headspace Y / N /NA	TRRP Report Required	
Relinquished by: Company: Date: Time: Réceived by	Company: Date: I Time: INST OBS°C COR°C	Log-in Review	Check If Special Reporting Limits Are Needed	
Submittal of samples constitutes agreement to Terms and Conditions		Carrier #		
Submittal of samples consumers agreement to come				

ORIGINAL COPY



April 18, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: TRUNK M #2 DRIP TANKS

Enclosed are the results of analyses for samples received by the laboratory on 04/12/13 9:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/12/2013	Sampling Date:	04/11/2013
Reported:	04/18/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	RP-1819	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE EXC. EAST FLOOR (H300877-01)

BTEX 8021B	mg	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2013	ND	1.95	97.6	2.00	7.04	
Toluene*	<0.050	0.050	04/16/2013	ND	1.94	96.8	2.00	6.83	
Ethylbenzene*	0.095	0.050	04/16/2013	ND	1.92	96.0	2.00	7.16	
Total Xylenes*	0.273	0.150	04/16/2013	ND	5.59	93.2	6.00	6.83	
Total BTEX	0.368	0.300	04/16/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	186	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	04/12/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	59.0	10.0	04/12/2013	ND	215	108	200	3.39	
DRO >C10-C28	785	10.0	04/12/2013	ND	210	105	200	3.55	
EXT DRO >C28-C35	109	10.0	04/12/2013	ND					
Surrogate: 1-Chlorooctane	104	65.2-14	0						
Surrogate: 1-Chlorooctadecane	119 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/12/2013	Sampling Date:	04/11/2013
Reported:	04/18/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	RP-1819	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE EXC. WEST FLOOR (H300877-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2013	ND	1.95	97.6	2.00	7.04	
Toluene*	<0.050	0.050	04/16/2013	ND	1.94	96.8	2.00	6.83	
Ethylbenzene*	0.121	0.050	04/16/2013	ND	1.92	96.0	2.00	7.16	
Total Xylenes*	0.449	0.150	04/16/2013	ND	5.59	93.2	6.00	6.83	
Total BTEX	0.570	0.300	04/16/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	187	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	04/12/2013	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	73.2	10.0	04/12/2013	ND	215	108	200	3.39	
DRO >C10-C28	817	10.0	04/12/2013	ND	210	105	200	3.55	
EXT DRO >C28-C35	106	10.0	04/12/2013	ND					
Surrogate: 1-Chlorooctane	109	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	121	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/12/2013	Sampling Date:	04/11/2013
Reported:	04/18/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	RP-1819	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE EXC. NORTH WALL #1 (H300877-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2013	ND	2.04	102	2.00	7.37	
Toluene*	<0.050	0.050	04/18/2013	ND	2.01	100	2.00	7.72	
Ethylbenzene*	<0.050	0.050	04/18/2013	ND	2.01	101	2.00	7.77	
Total Xylenes*	<0.150	0.150	04/18/2013	ND	5.94	99.0	6.00	7.35	
Total BTEX	<0.300	0.300	04/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	04/12/2013	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/12/2013	ND	215	108	200	3.39	
DRO >C10-C28	78.9	10.0	04/12/2013	ND	210	105	200	3.55	
EXT DRO >C28-C35	19.2	10.0	04/12/2013	ND					
Surrogate: 1-Chlorooctane	88.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/12/2013	Sampling Date:	04/11/2013
Reported:	04/18/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	RP-1819	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE EXC. STOCKPILE (H300877-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	04/12/2013	ND	416	104	400	3.77	
TPH 8015M	/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	52.1	10.0	04/12/2013	ND	215	108	200	3.39	
DR0 >C10-C28	1010	10.0	04/12/2013	ND	210	105	200	3.55	
EXT DRO >C28-C35	147	10.0	04/12/2013	ND					
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane 127 %		% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Submittal of samples	Relinquished by:	SILL	Relinquished by:	Kelinquished by:			4	<i>د</i> ی.	¢,				Project Location: (include state)	Project #:	Invoice to:	Contact Person:	Address:	Company Name:		LAB Order ID #
Submittal of samples constitutes agreement to Terms and Conditions	Company: Date: Time:	4-12 9	Company: Date: Time:	Company: Date: Time:			Middle Exc. Stockpile	Middle Exc. North Wall #1	Middle Exc. West Floor	Middle Exc. East Floor	SAMPLE ID		Lea Co., NM	RP-1819	Southern Union Gas		P.O. Box 301 Lovington, NM 88260	Basin Environmental Service Technologies, LLC	Cardinal Labo	#
nditions	: Received by:	2	Ś	Received by:			C 1	G 1	G 1	G 1	(G)RAB or (C)						1 38260	Technologies, I	Laboratories	
	y: Company:	Henson	a	y: Company:	\vdash		×	×	X	×	WATER SOIL AIR SLUDGE	MATRIX	Sampler Signature	Project Name:		E-mail: pm(Fax #:	LLC Phone #:		
	Date:	C 4/17	4-12	Date:							HCL HNO ₃ H₂SO₄ NaOH	METHOD	Juel for			pm@basinenv.com, rose.slade@sug.com,cyndi.inskeep@sug.com	(575	(5)	101 East Marland Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476	
	Time: INST OBS COR	907 COR	5	Time: INST			X 4/11/13	X 4/11/13	X 4/11/13	X 4/11/13	ICE NONE DATE	0	Win	Trunk M#2 Drip Tanks		nskeep@sug.com	575)396-1429	(575)396-2378		
Car	°C °C		ດ (ŝ			13 1200 X	13 1150 X	13 1140 X	1130	TIME	SAMPLING		ks						
Carrier #	og-in Review	Intact <u>Y/N</u> Headspace <u>Y/N/NA</u>	ONLY	LAB USE			X	Xx	XX	×	TPH 8015M BTEX 8021B	*	dded	41	Isla	1	_	(Circle		
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Page 7 of 7

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April 19, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: TRUNK M #2 DRIP TANKS

Enclosed are the results of analyses for samples received by the laboratory on 04/18/13 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/18/2013	Sampling Date:	04/18/2013
Reported:	04/19/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 4-18-13 STOCKPILE (H300924-01)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/19/2013	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.1	10.0	04/19/2013	ND	210	105	200	4.29	
DRO >C10-C28	219	10.0	04/19/2013	ND	204	102	200	4.96	
EXT DRO >C28-C35	46.2	10.0	04/19/2013	ND					
Surrogate: 1-Chlorooctane	93.7 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager





April 30, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: TRUNK M #2 DRIP TANKS

Enclosed are the results of analyses for samples received by the laboratory on 04/26/13 12:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/26/2013	Sampling Date:	04/25/2013
Reported:	04/30/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: 4-25-13 MIDDLE EXC. STOCKPILE (H300990-01)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2013	ND	2.18	109	2.00	0.709	
Toluene*	<0.050	0.050	04/29/2013	ND	1.96	98.2	2.00	0.399	
Ethylbenzene*	<0.050	0.050	04/29/2013	ND	2.14	107	2.00	0.0330	
Total Xylenes*	<0.150	0.150	04/29/2013	ND	6.18	103	6.00	1.28	
Total BTEX	<0.300	0.300	04/29/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/29/2013	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/29/2013	ND	190	95.1	200	1.11	
DRO >C10-C28	53.0	10.0	04/29/2013	ND	192	95.9	200	0.524	
EXT DRO >C28-C35	21.3	10.0	04/29/2013	ND					
Surrogate: 1-Chlorooctane	90.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/26/2013	Sampling Date:	04/25/2013
Reported:	04/30/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: 4-25-13 SAND. STOCKPILE (H300990-02)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2013	ND	2.18	109	2.00	0.709	
Toluene*	<0.050	0.050	04/29/2013	ND	1.96	98.2	2.00	0.399	
Ethylbenzene*	<0.050	0.050	04/29/2013	ND	2.14	107	2.00	0.0330	
Total Xylenes*	<0.150	0.150	04/29/2013	ND	6.18	103	6.00	1.28	
Total BTEX	<0.300	0.300	04/29/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/29/2013	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/29/2013	ND	190	95.1	200	1.11	
DRO >C10-C28	47.9	10.0	04/29/2013	ND	192	95.9	200	0.524	
EXT DRO >C28-C35	29.2	10.0	04/29/2013	ND					
Surrogate: 1-Chlorooctane	80.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.4	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

	Submittal of samples (Relinquished by:		Rélinquishèd by:	July any	Relinquished by:					-92	6	LAB ID LAB USE		Project Location: (include state)	Project #:	Invoice to: So	Contact Person:	Add ress:	Company Name:	
OFICS Historican region based region bas	constitutes agreement to Terms and Conditi	Date:		Company: Date:	4120/13	Date:					4-25-13 Sand Stockpile	4-25-13 Middle Exc. Stockpile			Lea Co., NM		uthern Union Gas		P.O. Box 301 Lovington, NM 882(asin Environmental Service Tech	ardinal Labora
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Page 5 of 5				•									Turn Around Hold	Time i	f differen	it from	standa	Ird	: 		



May 06, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: TRUNK M #2 DRIP TANKS

Enclosed are the results of analyses for samples received by the laboratory on 04/29/13 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/29/2013	Sampling Date:	04/26/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC A NORTH WALL #1B (H301002-01)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2013	ND	2.04	102	2.00	18.6	
Toluene*	<0.050	0.050	05/01/2013	ND	1.86	92.9	2.00	17.1	
Ethylbenzene*	<0.050	0.050	05/01/2013	ND	1.98	99.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	05/01/2013	ND	5.91	98.4	6.00	17.3	
Total BTEX	<0.300	0.300	05/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	187	93.7	200	0.455	
DRO >C10-C28	104	10.0	04/30/2013	ND	181	90.6	200	0.160	
EXT DRO >C28-C35	21.6	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	93.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.8	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/29/2013	Sampling Date:	04/26/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC A EAST WALL #3B (H301002-02)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2013	ND	2.04	102	2.00	18.6	
Toluene*	<0.100	0.100	05/01/2013	ND	1.86	92.9	2.00	17.1	
Ethylbenzene*	<0.050	0.050	05/01/2013	ND	1.98	99.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	05/01/2013	ND	5.91	98.4	6.00	17.3	
Total BTEX	<0.350	0.350	05/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	187	93.7	200	0.455	
DRO >C10-C28	<10.0	10.0	04/30/2013	ND	181	90.6	200	0.160	
EXT DRO >C28-C35	<10.0	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	75.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.2	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/29/2013	Sampling Date:	04/26/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC B NORTH WALL #1B (H301002-03)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2013	ND	2.04	102	2.00	18.6	
Toluene*	<0.050	0.050	05/01/2013	ND	1.86	92.9	2.00	17.1	
Ethylbenzene*	<0.050	0.050	05/01/2013	ND	1.98	99.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	05/01/2013	ND	5.91	98.4	6.00	17.3	
Total BTEX	<0.300	0.300	05/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	187	93.7	200	0.455	
DRO >C10-C28	89.9	10.0	04/30/2013	ND	181	90.6	200	0.160	
EXT DRO >C28-C35	16.6	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	84.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.5	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/29/2013	Sampling Date:	04/26/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC B NORTH WALL #2B (H301002-04)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2013	ND	2.04	102	2.00	18.6	
Toluene*	<0.050	0.050	05/01/2013	ND	1.86	92.9	2.00	17.1	
Ethylbenzene*	<0.050	0.050	05/01/2013	ND	1.98	99.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	05/01/2013	ND	5.91	98.4	6.00	17.3	
Total BTEX	<0.300	0.300	05/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	187	93.7	200	0.455	
DRO >C10-C28	<10.0	10.0	04/30/2013	ND	181	90.6	200	0.160	
EXT DRO >C28-C35	<10.0	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	77.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.3	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/29/2013	Sampling Date:	04/26/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EXC B EAST WALL #2B (H301002-05)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2013	ND	2.04	102	2.00	18.6	
Toluene*	<0.050	0.050	05/01/2013	ND	1.86	92.9	2.00	17.1	
Ethylbenzene*	<0.050	0.050	05/01/2013	ND	1.98	99.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	05/01/2013	ND	5.91	98.4	6.00	17.3	
Total BTEX	<0.300	0.300	05/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	187	93.7	200	0.455	
DRO >C10-C28	69.2	10.0	04/30/2013	ND	181	90.6	200	0.160	
EXT DRO >C28-C35	15.5	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	82.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.6	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/29/2013	Sampling Date:	04/26/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE EXC SOUTH WALL #1 (H301002-06)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2013	ND	2.04	102	2.00	18.6	
Toluene*	<0.050	0.050	05/01/2013	ND	1.86	92.9	2.00	17.1	
Ethylbenzene*	<0.050	0.050	05/01/2013	ND	1.98	99.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	05/01/2013	ND	5.91	98.4	6.00	17.3	
Total BTEX	<0.300	0.300	05/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	187	93.7	200	0.455	
DRO >C10-C28	<10.0	10.0	04/30/2013	ND	181	90.6	200	0.160	
EXT DRO >C28-C35	<10.0	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	71.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	77.2	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager


Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/29/2013	Sampling Date:	04/26/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE FLOOR DRILL LOCATION (H301002-07)

BTEX 8021B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2013	ND	2.04	102	2.00	18.6	
Toluene*	<0.050	0.050	05/01/2013	ND	1.86	92.9	2.00	17.1	
Ethylbenzene*	<0.050	0.050	05/01/2013	ND	1.98	99.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	05/01/2013	ND	5.91	98.4	6.00	17.3	
Total BTEX	<0.300	0.300	05/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	187	93.7	200	0.455	
DRO >C10-C28	161	10.0	04/30/2013	ND	181	90.6	200	0.160	
EXT DRO >C28-C35	65.9	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	82.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.9	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/29/2013	Sampling Date:	04/26/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BGT SOUTH WALL (H301002-08)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2013	ND	2.04	102	2.00	18.6	
Toluene*	<0.050	0.050	05/01/2013	ND	1.86	92.9	2.00	17.1	
Ethylbenzene*	<0.050	0.050	05/01/2013	ND	1.98	99.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	05/01/2013	ND	5.91	98.4	6.00	17.3	
Total BTEX	<0.300	0.300	05/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	176	88.2	200	5.89	
DRO >C10-C28	<10.0	10.0	04/30/2013	ND	168	84.1	200	9.89	
EXT DRO >C28-C35	<10.0	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	72.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	75.3	% 63.6-15	1						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	04/29/2013	Sampling Date:	04/26/2013
Reported:	05/06/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BGT FLOOR (H301002-09)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2013	ND	2.04	102	2.00	18.6	
Toluene*	<0.100	0.100	05/01/2013	ND	1.86	92.9	2.00	17.1	
Ethylbenzene*	<0.050	0.050	05/01/2013	ND	1.98	99.2	2.00	18.2	
Total Xylenes*	<0.150	0.150	05/01/2013	ND	5.91	98.4	6.00	17.3	
Total BTEX	<0.350	0.350	05/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/29/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/30/2013	ND	176	88.2	200	5.89	
DRO >C10-C28	<10.0	10.0	04/30/2013	ND	168	84.1	200	9.89	
EXT DRO >C28-C35	<10.0	10.0	04/30/2013	ND					
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.8	% 63.6-15	4						

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*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Interst Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Basin Environment and Project Manager: Totr Loway Address: 3100 Plains Huy City: 1. Josing Lon, State: NM Zil Phone #: Fax #: Project Name: Trunt M #2 Drip Tanks Project Location: Sampler Name: Tot Lowet	Dratories Narland, Hobbs, NM 88240 2326 FAX (575) 393-2476 Environment ed Environment ed Fax #: Project Owner: MHZ Drip Tenirs		U/I ≥ 000000000000000000000000000000000000				P.O. #: P.O. #: Company Attn: &•s Address: City: State: Phone #: Fax #:			ERV SAMPLING	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST				AND AN	A C				
n: Soec l							hon	·" ē ·					-				•••••			
							귀	RESE	RV.	SAMPLI	NG	clo								
Lab I.D. Sample I.D.		(G)RAB OR (# CONTAINE	GROUNDWA	WASTEWATE SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Culori	BTEX	Трн						
Exc A.	North Wall #15 6			. ×				~ ~			4:30 4:30	× ×	×	~ ~						
3 Exc B. North	-			~ ~				* *		4176 4170	10:00	> >	~ >	* *						
Exc.B	6	-	_	• >			+	• >•			10:30	~ ~	· ۲	*						
6 Middle Exc Sol	EXC SOUTH WALL # 1			× ×				* >		426	11:00	~ ~	~ ~	× ×						
Middle Floor		- - -		*			-	• >			12:00	` ~	· ×	۲ ×				+		
9 BUT FIDDY				~ 7				~ >		n/26 N/26	1:00 06:41	≻ >	××	× ×				+		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be dened waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall cardinal to inclient and any other cause whatsoever shall be dened waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall cardinal the labels for incidental or consequential damages, including without limitation, business interruptions, bas of use, or loss of profits incurred by client, its subsidiaries, or the share of the other of the heat of theat of the h	lient's exclusive remedy for any claim arising whether based rause whatsoever shall be deemed waved unless made in requestal damages, including without limitation, business inte so for actions homorate hur cracitla reactions of utoches	daim aris med wah hout limit	ing whet red unles ation, bu	her base is made isiness ir	in cor in writin	g and re	tort, sh sceived s of use	all be li by Carr by Carr	mited to dinal wi	the amount paid thin 30 days after offts incurred by of	in contract or tort, shall be limited to the amount paid by the client for the inviting and reseived by Cardinal within 30 days after completion of the ap ruptions, loss of use, or loss of profits incurred by client, its subsidiaries, use holds is based on one of the house stated by client.	he e applicat les,	ē			-		-		
Relinquished By:	Time: SO	Rece		\mathcal{C}			6	8		stated rea	Phone Result: Fax Result: REMARKS:		□ Yes		Add'l Phone #: Add'l Fax #:	ohone ax#:	÷			
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Page 12 of 12

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 395/2326



May 03, 2013

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: TRUNK M #2 DRIP TANKS

Enclosed are the results of analyses for samples received by the laboratory on 05/02/13 15:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	05/02/2013	Sampling Date:	05/02/2013
Reported:	05/03/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE EX-N WALL #1A (H301047-01)

	•								
BTEX 8021B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/03/2013	ND	1.75	87.7	2.00	15.9	
Toluene*	<0.050	0.050	05/03/2013	ND	1.65	82.6	2.00	14.7	
Ethylbenzene*	<0.050	0.050	05/03/2013	ND	1.73	86.5	2.00	16.9	
Total Xylenes*	<0.150	0.150	05/03/2013	ND	5.15	85.8	6.00	17.6	
Total BTEX	<0.300	0.300	05/03/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/03/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	05/02/2013	ND	196	98.0	200	1.07	
DRO >C10-C28	<10.0	10.0	05/02/2013	ND	193	96.7	200	0.628	
EXT DRO >C28-C35	<10.0	10.0	05/02/2013	ND					
Surrogate: 1-Chlorooctane	84.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane									

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	05/02/2013	Sampling Date:	05/02/2013
Reported:	05/03/2013	Sampling Type:	Soil
Project Name:	TRUNK M #2 DRIP TANKS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE EX-N WALL #2 (H301047-02)

BTEX 8021B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2013	ND	1.75	87.7	2.00	15.9	
Toluene*	<0.050	0.050	05/03/2013	ND	1.65	82.6	2.00	14.7	
Ethylbenzene*	<0.050	0.050	05/03/2013	ND	1.73	86.5	2.00	16.9	
Total Xylenes*	<0.150	0.150	05/03/2013	ND	5.15	85.8	6.00	17.6	
Total BTEX	<0.300	0.300	05/03/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/03/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2013	ND	196	98.0	200	1.07	
DRO >C10-C28	<10.0	10.0	05/02/2013	ND	193	96.7	200	0.628	
EXT DRO >C28-C35	<10.0	10.0	05/02/2013	ND					
Surrogate: 1-Chlorooctane	102 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 39342326	Delivered By: (Circle One) Sampler - UPS - Bus - Other:		ehr	those for negligence dinal be liable for incidence out of or related to the	Tablib and Dawners Cardina Pa				Artiddle Ex North Wall #2	1 middle Ex. North Well # 10	H301047	Lab I.D. Sample I.D.			Sampler Name: Triby North N	Project Name: TRUNK M#2 DR: p TANKS		Phone #: ダ3ス - ダムム - ダイSO Fax #:	city: Louington State: NM	Address: 2800 Plains Huy	1	Company Name: 13,95; NENVIRONMENTE	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
e fax written changes to (575) 3	4 D Cool Infact Ares Pres	Received By:		namay one vient is exvense related to any vanin ensing wiretuer users in contract or unit, statiut demined to une emontra pad by the electricity of the and any ofter cause whatsbower shall be deemed waived unless mode in writing and received by Cardinal within 30 days after completion of the shall or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, e performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.					/	X	# CON GROUI	र :	RS	MATRIX PR	Phone #:		er: SUGS city:	Address:	Zip:	Comp	P.O. #:	He/	3240 76	
93-2326			AUM REMARKS:	even revoluted or unit, small be initiated up the anothing bad by the electith for the in writing and received by Cardinal writin 30 days after completion of the ar- interruptions, loss of use, or loss of profits incurred by cilent, its subsidiaries, er such claim is based upon any of the above stated reasons or otherwise.		· · · · · · · · · · · · · · · · · · ·		· · ·	61/20/00	X 05/22/13 1000	ICE / C OTHEF DATE TIME			PRESERV. SAMPLING	9#	Zip:		SS:	Rose Slade	Company: JUGS	ţ.			CHAIN-
		114911	sur:								CI	PH (lon) TE	<u>; de.</u> X	5							- 1	ANALYSIS REQUEST		CHAIN-UF-CUS I UDT AND ANALTSIS REQUES I

CARDINAL Laboratories

Summary Report

(Corrected Report)

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

Report Date: November 10, 2014

Work Order:	14102203

Project Location:	Lea Co, NM
Project Name:	Regency/Trunk M2 Drip Tanks
Project Number:	7030714G043

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
377607	SB-1 14-15'	soil	2014-10-21	10:00	2014-10-22
377608	SB-1 19-20'	soil	2014-10-21	10:10	2014-10-22
377610	SB-2 14-15'	soil	2014-10-21	13:00	2014-10-22
377611	SB-2 19-20'	soil	2014-10-21	13:15	2014-10-22
377612	SB-2 24-25'	soil	2014-10-21	13:30	2014-10-22
377613	SB-2 29-30'	soil	2014-10-21	13:45	2014-10-22
377614	SB-2 39-40'	soil	2014-10-21	14:00	2014-10-22

	TPH DRO - NEW	TPH GRO
	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)
377607 - SB-1 14-15'	$380 _{\mathrm{Qr,Qs}}$	6.95
377608 - SB-1 19-20'	$378 \hspace{0.1 cm}_{\mathrm{Qr,Qs}}$	13.0
377610 - SB-2 14-15'	1960 Qr,Qs	2680
377611 - SB-2 19-20'	$1430_{\mathrm{Qr,Qs}}$	2750
377612 - SB-2 24-25'	1050	278 Qs
377613 - SB-2 29-30'	578	48.4 Qs
377614 - SB-2 39-40'	1130	127 Qs

Sample: 377607 - SB-1 14-15'

Param	Flag	Result	Units	RL
Chloride		237	m mg/Kg	4

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: November 10, 2014		Work Order: 14102203	Pa	ge Number: 2 of 2
Sample: 377608	- SB-1 19-20'			
Param	Flag	Result	Units	RL
Chloride		194	m mg/Kg	4
Sample: 377610	- SB-2 14-15'			
Param	Flag	Result	Units	RL
Chloride		291	m mg/Kg	4
Sample: 377611	- SB-2 19-20'			
Param	Flag	Result	Units	RL
Chloride		340	mg/Kg	4
Sample: 377612	- SB-2 24-25'			
Param	Flag	Result	Units	RL
Chloride	1 100	340	mg/Kg	4
Sample: 377613	- SB-2 29-30'			
Param	Flag	Result	Units	RL
Chloride		291	m mg/Kg	4
Sample: 377614	- SB-2 39-40'			
Param	Flag	Result	Units	RL
Chloride		243	m mg/Kg	4



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, Texas 79424 Texas 79922 El Paso, Texas 79703 Midland, Carroliton. Texas 75006 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

915-585-3443 FAX 915 • 585 • 4944 432-689-6301 FAX 432 • 689 • 6313 972-242 -7750

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Oklahoma ISO 17025 Kansas

Analytical and Quality Control Report

(Corrected Report)

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

Report Date: November 10, 2014

Work Order:	14102203

Project Location: Lea Co, NM Project Name: Regency/Trunk M2 Drip Tanks 7030714G043 Project Number:

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
377607	SB-1 14-15'	soil	2014-10-21	10:00	2014-10-22
377608	SB-1 19-20'	soil	2014-10-21	10:10	2014-10-22
377610	SB-2 14-15'	soil	2014-10-21	13:00	2014-10-22
377611	SB-2 19-20'	soil	2014-10-21	13:15	2014-10-22
377612	SB-2 24-25'	soil	2014-10-21	13:30	2014-10-22
377613	SB-2 29-30'	soil	2014-10-21	13:45	2014-10-22
377614	SB-2 39-40'	soil	2014-10-21	14:00	2014-10-22

Report Corrections (Work Order 14102203)

• 10/30/2014-377612-614 added for DRO/GRO/Cl with hold time expiring 11/4.

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 30 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blain Lepturch

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

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Case Narrative

Samples for project Regency/Trunk M2 Drip Tanks were received by TraceAnalysis, Inc. on 2014-10-22 and assigned to work order 14102203. Samples for work order 14102203 were received intact at a temperature of 4.5 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (Titration)	SM 4500-Cl B	98708	2014-10-28 at 15:46	116738	2014-10-29 at 09:55
Chloride (Titration)	SM 4500-Cl B $$	98742	2014-10-29 at $19:07$	116802	2014-10-30 at $12:59$
Chloride (Titration)	SM 4500-Cl B $$	98786	2014-10-31 at $10:13$	116843	2014-10-31 at 12:33
TPH DRO - NEW	S 8015 D	98619	2014-10-23 at $12:00$	116624	2014-10-24 at $09:17$
TPH DRO - NEW	S 8015 D	98788	2014-10-31 at 12:51	116874	2014-11-03 at $08:04$
TPH GRO	S 8015 D	98673	2014-10-27 at $07:25$	116702	2014-10-28 at $07:43$
TPH GRO	S 8015 D	98838	2014-11-03 at 12:29	116912	2014-11-03 at 12:29
TPH GRO	S 8015 D	98899	2014-11-05 at $14:41$	116984	2014-11-05 at $14:41$

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 14102203 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.

Analytical Report

Sample: 377607 - SB-1 14-15'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 116738 98708	Date An	al Method: alyzed: Preparation:	SM 4500-Cl B 2014-10-29 2014-10-28	Prep Method: Analyzed By: Prepared By:	ŃМ
Danamatan	Florm	Cont	RL	II:ta	Dilution	DI
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			237	mg/Kg	5	4.00

Sample: 377607 - SB-1 14-15'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DR 116624 98619	O - NEV	N	Date	ytical Method Analyzed: ple Preparatic	2014-10	-24	Prep Me Analyzec Prepared	l By: SC
					R	L			
Parameter			Flag	Cert	Resul	lt	Units	Dilution	RL
DRO			$_{ m Qr,Qs}$	5	38	0	m mg/Kg	1	50.0
Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		132	mg/Kg	1	100	132	70 - 130

Sample: 377607 - SB-1 14-15'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 116702 98673		Date Ar	cal Metho alyzed: Preparatio	2014-1	.0-28		Prep Metho Analyzed B Prepared B	y: AK
					RL				
Parameter		Flag	Cert		Result	Uni	ts	Dilution	RL
GRO			5		6.95	mg/K	g	1	4.00
Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ne (TFT)	~		1.83	mg/Kg	1	2.00	92	70 - 130
					· · ·	cont	inued		

Report Date: November 10, 2014	Work Order: 14102203	Page Number: 7 of 30
7030714G043	Regency/Trunk M2 Drip Tanks	Lea Co, NM
sample continued		

sample continuea								
						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
4-Bromofluorobenzene (4-BFB)			1.60	mg/Kg	1	2.00	80	70 - 130

Sample: 377608 - SB-1 19-20'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 116802 98742	Date	ytical Method: Analyzed: ble Preparation:	SM 4500-Cl B 2014-10-30 2014-10-29	Prep Method: Analyzed By: Prepared By:	ŃМ
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			194	mg/Kg	5	4.00

Sample: 377608 - SB-1 19-20'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DR 116624 98619	O - NEV	N	Date	ytical Metho Analyzed: ple Preparati	2014-10	-24	Prep Me Analyzed Prepared	v
					F	L			
Parameter			Flag	Cert	Resu	ılt	Units	Dilution	RL
DRO			$_{ m Qr,Qs}$	5	3'	78	m mg/Kg	1	50.0
							Spike	Percent	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane	Qsr	Qsr		144	mg/Kg	1	100	144	70 - 130

Sample: 377608 - SB-1 19-20'

Laboratory: Midland Analysis: TPH GRO QC Batch: 116702 Prep Batch: 98673		Analytical M Date Analyz Sample Prep		-28	Prep Method Analyzed By: Prepared By:	AK
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
GRO		5	13.0	m mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)			$1.76 \\ 2.52$	m mg/Kg $ m mg/Kg$	1 1	$2.00 \\ 2.00$	$\frac{88}{126}$	70 - 130 70 - 130		

Sample: 377610 - SB-2 14-15'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 116802 98742	Date	lytical Method: e Analyzed: ple Preparation:	SM 4500-Cl B 2014-10-30 2014-10-29	Prep Method: Analyzed By: Prepared By:	N/A MM MM
			RL			
Parameter	Fla	g Cert	Result	Units	Dilution	RL
Chloride			291	mg/Kg	5	4.00

Sample: 377610 - SB-2 14-15'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DR 116624 98619	0 - NEV	N	Date	ytical Metho Analyzed: ple Preparati	2014-1	0-24	Prep Me Analyzed Prepared	l By: SC
					F	RL			
Parameter			Flag	Cert	Resu	ılt	Units	Dilution	RL
DRO			$_{ m Qr,Qs}$	5	19	60	m mg/Kg	1	50.0
Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		168	mg/Kg	1	100	168	70 - 130

Sample: 377610 - SB-2 14-15'

Laboratory: Midlan Analysis: TPH G QC Batch: 116702 Prep Batch: 98673	RO	Analytical M Date Analyz Sample Prep		-28	Prep Method Analyzed By: Prepared By:	AK
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
GRO		5	2680	m mg/Kg	50	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) _{Qsr}	Qsr		$82.5 \\ 143$	mg/Kg mg/Kg	$\begin{array}{c} 50 \\ 50 \end{array}$	100 100	82 143	70 - 130 70 - 130	

Sample: 377611 - SB-2 19-20'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 116802 98742	Date A	tical Method: Analyzed: e Preparation:	SM 4500-Cl B 2014-10-30 2014-10-29	Prep Method: Analyzed By: Prepared By:	ŃМ
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	-0		340	mg/Kg	5	4.00

Sample: 377611 - SB-2 19-20'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DR 116624 98619	PH DRO - NEWAnalytical Metho6624Date Analyzed:519Sample Preparati					D)-24)-23	Prep Me Analyzed Prepared	v
					F	L			
Parameter			Flag	Cert	Resu	ılt	Units	Dilution	RL
DRO			$_{ m Qr,Qs}$	5	143	30	mg/Kg	1	50.0
Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		148	mg/Kg	1	100	148	70 - 130

Sample: 377611 - SB-2 19-20'

Laboratory: Midle Analysis: TPH QC Batch: 11670 Prep Batch: 98673	GRO)2	Analytical M Date Analyz Sample Prep		-28	Prep Method Analyzed By: Prepared By:	AK
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
GRO		5	2750	m mg/Kg	50	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)			82.2 128	m mg/Kg $ m mg/Kg$	$\begin{array}{c} 50 \\ 50 \end{array}$	$\begin{array}{c} 100 \\ 100 \end{array}$	82 128	70 - 130 70 - 130

Sample: 377612 - SB-2 24-25'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 116843 98786		Date Ar	cal Method: nalyzed: Preparation:	SM 4500-Cl B 2014-10-31 2014-10-31	Prep Method: Analyzed By: Prepared By:	N/A MM MM
				RL			
Parameter	F	lag	Cert	Result	Units	Dilution	RL
Chloride				340	mg/Kg	5	4.00

Sample: 377612 - SB-2 24-25'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DR 116874 98788	0 - NEV	W	Date	lytical Metho e Analyzed: ple Preparati	2014-1	1-03	Prep Me Analyzed Prepared	l By: SC
					Η	RL			
Parameter			Flag	Cert	Rest	ılt	Units	Dilution	RL
DRO				5	10	50	mg/Kg	1	50.0
Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		132	mg/Kg	1	100	132	70 - 130

Sample: 377612 - SB-2 24-25'

Laboratory: Analysis: QC Batch: Prep Batch:	TPH GRO 116912		Analytical M Date Analyze Sample Prep		03	Prep Method: Analyzed By: Prepared By:	$_{\rm JS}$
				RL			
Parameter		Flag	Cert	Result	Units	Dilution	RL
GRO		$_{\rm Qs}$	1,2,3,4	278	m mg/Kg	2	4.00

Report Date: November 10, 2014 7030714G043		Vork Order: 14102203 acy/Trunk M2 Drip Tanks				Page Number: 11 of 30 Lea Co, NM			
Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	Qsr	Qsr	3 3	$1.79 \\ 9.58$	m mg/Kg $ m mg/Kg$	$2 \\ 2$	$2.00 \\ 2.00$	$90 \\ 479$	73 - 122 74.6 - 120

Sample: 377613 - SB-2 29-30'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 116843 98786	Dat	lytical Method: e Analyzed: pple Preparation:	SM 4500-Cl B 2014-10-31 2014-10-31	Prep Method: Analyzed By: Prepared By:	ŃМ
			RL			
Parameter	Fla	g Cert	Result	Units	Dilution	RL
Chloride			291	mg/Kg	5	4.00

Sample: 377613 - SB-2 29-30'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - N 116874 98788	EW	Date	lytical Metho e Analyzed: aple Preparat	2014-1	11-03	Prep Me Analyzed Prepared	v
					RL			
Parameter		Flag	Cert	Res	ult	Units	Dilution	RL
DRO			5	5	78	m mg/Kg	1	50.0
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			121	m mg/Kg	1	100	121	70 - 130

Sample: 377613 - SB-2 29-30'

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH GRO 116912 98838		Analytical M Date Analyz Sample Prep		-03	Prep Method: Analyzed By: Prepared By:	$_{\rm JS}$
				RL			
Parameter		Flag	Cert	Result	Units	Dilution	RL
GRO		Qs	1,2,3,4	48.4	m mg/Kg	1	4.00

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Surrogate	Flag	c Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	Qsr Qsr	3 3	$1.97 \\ 3.09$	mg/Kg mg/Kg	1 1	$2.00 \\ 2.00$	98 154	73 - 122 74.6 - 120	

Sample: 377614 - SB-2 39-40'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 116843 98786	Date	lytical Method: e Analyzed: ple Preparation:	SM 4500-Cl B 2014-10-31 2014-10-31	Prep Method: Analyzed By: Prepared By:	N/A MM MM
			RL			
Parameter	Fla_{i}	g Cert	Result	Units	Dilution	RL
Chloride			243	mg/Kg	5	4.00

Sample: 377614 - SB-2 39-40'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DR 116874 98788	0 - NEV	W	Date	lytical Metho e Analyzed: ple Preparati	2014-1	1-03	Prep Me Analyzed Prepared	v
					I	RL			
Parameter			Flag	Cert	Rest	ılt	Units	Dilution	RL
DRO				5	11:	30	mg/Kg	1	50.0
Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr	0.010	130	mg/Kg	1	100	130	70 - 130

Sample: 377614 - SB-2 39-40'

Analysis: QC Batch:	Lubbock TPH GRO 116984 98899		Analytical M Date Analyz Sample Prep		-05	Prep Method: Analyzed By: Prepared By:	\mathbf{MT}
				RL			
Parameter		Flag	Cert	Result	Units	Dilution	RL
GRO		Qs	1,2,3,4	127	m mg/Kg	1	4.00

Report Date: November 10, 2014 7030714G043	Work Order: 14102203 Regency/Trunk M2 Drip Tanks						Page Number: 13 of 30 Lea Co, NM	
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) _{Qsr}	Qsr	3 3	$\begin{array}{c} 1.86 \\ 6.65 \end{array}$	m mg/Kg $ m mg/Kg$	1 1	$2.00 \\ 2.00$	93 332	73 - 122 74.6 - 120

Method Blanks

Method Bla	ank (1)	QC B	atch: 1166	524					
QC Batch: Prep Batch:	$\frac{116624}{98619}$				Analyzed: eparation:	2014-10-24 2014-10-23		•	ed By: SC ed By: SC
							MDL		
Parameter			Fla	g	Cert]	Result	Units	RL
DRO					5		<7.41	m mg/Kg	50
C		E 1	Claut	D 14	T T : 4	Dilution	Spike	Percent	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution		Recovery	Limits
n-Tricosane				98.6	mg/Kg	1	100	99	70 - 130

Method Blank (1)	QC Batch: 116702
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QC Batch: 116702 Prep Batch: 98673			analyzed: eparation:	2014-10-2 2014-10-2	-		•	l By: AK By: AK
					MDL			
Parameter	Flag		Cert		Result		Units	RL
GRO			5		<2.32		mg/Kg	4
						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.74	mg/Kg	1	2.00	87	70 - 130
4-Bromofluorobenzene (4-BFB)			1.69	$\mathrm{mg/Kg}$	1	2.00	84	70 - 130

Method Blank (1) QC Batch: 116738

QC Batch:	116738		Date Analyzed:	2014-10-29	Analyzed By:	MM
Prep Batch:	98708		QC Preparation:	2014-10-28	Prepared By:	WK
				MDL		
Parameter		Flag	Cert	Result	Units	RL
Chloride				<3.85	mg/Kg	4
		Flag	Cert			$\frac{\text{RL}}{4}$

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Method Blank (1)	QC Bate	ch: 116802					
QC Batch: 116802 Prep Batch: 98742			Date Analyzed: QC Preparation	2014-10-30 : 2014-10-29		Analyzed By Prepared By	
Parameter Chloride		Flag	Cert		MDL Result <3.85	Units mg/Kg	RL 4
Method Blank (1)	OC Bate	ch: 116843					
QC Batch: 116843 Prep Batch: 98786	QC Date		Date Analyzed: QC Preparation	2014-10-31 : 2014-10-31		Analyzed By Prepared By	
Parameter		Flag	Cert		MDL Result	Units	RL
Chloride					<3.85	mg/Kg	4
Method Blank (1)	QC Bate	ch: 116874					
QC Batch: 116874 Prep Batch: 98788			Date Analyzed: QC Preparation			Analyzed E Prepared E	
Parameter		Flag	Cert		MDL Result	Units	RL
			5		<7.41	m mg/Kg	50
DRO							
DRO Surrogate n-Tricosane	Flag	Cert	Result Unit 108 mg/K		Spike on Amoun 100	t Recovery	Recovery Limits 70 - 130

QC Batch:	116912	Date Analyzed:	2014-11-03	Analyzed By:	$_{\rm JS}$
Prep Batch:	98838	QC Preparation:	2014-11-03	Prepared By:	$_{\rm JS}$

Method Blank (1) QC Batch: 116912

Report Date: November 10, 2014 7030714G043	Work Order: 14102203 Regency/Trunk M2 Drip Tanks						Page Number: 16 of 30 Lea Co, NM		
					MDL				
Parameter	Flag		Cert		Result		Units	RL	
GRO			1,2,3,4		< 0.217		m mg/Kg	4	
						Spike	Percent	Recovery	
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)		3	2.14	mg/Kg	1	2.00	107	73 - 122	
4-Bromofluorobenzene (4-BFB)		3	1.72	$\mathrm{mg/Kg}$	1	2.00	86	74.6 - 120	

Method Blank (1)	QC Batch: 116984
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QC Batch: 116984 Prep Batch: 98899			nalyzed: eparation:	2014-11-0 2014-11-0	-		•	l By: MT l By: MT
					MDL			
Parameter	Flag		Cert		Result		Units	RL
GRO			1,2,3,4		< 0.217		m mg/Kg	4
						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		3	2.01	mg/Kg	1	2.00	100	73 - 122
4-Bromofluorobenzene (4-BFB)		3	1.76	mg/Kg	1	2.00	88	74.6 - 120

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 116624 Prep Batch: 98619				te Analyz Preparat		14-10-24 14-10-23				Analyze Preparec	
				LCS			Spike	Ma	atrix		Rec.
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	$R\epsilon$	sult	Rec.	Limit
DRO			5	249	mg/Kg	1	250	<'	7.41	100	70 - 130
Percent recovery is based on the	spike	resu	lt. RPI) is based	on the sp	pike and s	pike duplica	ate resu	ılt.		
			LCSD	1		Spike	Matrix		Rec	5.	RPD
Param	\mathbf{F}	\mathbf{C}	Result		Dil.	Amount	Result	Rec.	Lim		PD Limit
DRO		5	252	mg/K		250	<7.41	101	70 - 1	130	1 20
Percent recovery is based on the	spike	resu	lt. RPI) is based	on the sp	pike and s	pike duplica	ate resu	ılt.		
	LO	CS	LC	SD			Spike	LCS	S :	LCSD	Rec.
Surrogate	Res	sult	Res	ult	Units	Dil.	Amount	Rec		Rec.	Limit
n-Tricosane	1()1	99	.7 n	ng/Kg	1	100	101	-	100	70 - 130
Laboratory Control Spike (L	CS-1	.)									
Laboratory Control Spike (L QC Batch: 116702 Prep Batch: 98673	CS-1	.)		e Analyz Preparat		4-10-28 4-10-27			Η	Analyzec Prepared	By: AK
QC Batch: 116702 Prep Batch: 98673	CS-1		QC	Preparat	ion: 201	4-10-27	Spike		H atrix	Prepared	By: AK Rec.
QC Batch: 116702 Prep Batch: 98673 Param	CS-1	-) F	QC C	Preparat LCS Result	ion: 201 Units	4-10-27 Dil.	Amount	Re	I atrix esult	Prepared Rec.	By: AK Rec. Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO		F	QC C 5	Preparat LCS Result 24.1	ion: 201 Units mg/Kg	L4-10-27 Dil.	Amount 20.0	Re <:	F atrix esult 2.32	Prepared	By: AK Rec.
QC Batch: 116702 Prep Batch: 98673 Param		F	QC C 5	Preparat LCS Result 24.1	ion: 201 Units mg/Kg	L4-10-27 Dil.	Amount 20.0	Re <:	F atrix esult 2.32	Prepared Rec.	By: AK Rec. Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO		F	QC C 5	Preparat LCS Result 24.1 D is based	ion: 201 Units mg/Kg	L4-10-27 Dil.	Amount 20.0	Re <:	F atrix esult 2.32	Prepared Rec. 120	By: AK Rec. Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on the Param		F	QC <u>5</u> It. RPI LCSD Result	Preparat LCS Result 24.1 D is based	ion: 201 Units mg/Kg on the sp	Dil. Dil. Dike and s Spike Amount	Amount 20.0 pike duplica Matrix Result	Re <: ate resu Rec.	H atrix esult 2.32 ilt. Rec Lim	Prepared Rec. 120 c. it Rl	By: AK Rec. Limit 70 - 130 PD RPD Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on the	spike	F	$\frac{C}{\frac{5}{1t. RPI}}$	Preparat LCS Result 24.1) is based	ion: 201 Units mg/Kg on the sp	L4-10-27 Dil. Dil. Dike and s Spike	Amount 20.0 pike duplica Matrix	Re <: ate resu	I atrix esult 2.32 ilt. Red	Prepared Rec. 120 c. it Rl	By: AK Rec. Limit 70 - 130 RPD
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on the Param	spike F	F resu C 5	$\begin{array}{c} \text{QC} \\ \hline \\ 5 \\ \hline \\ 1t. \text{ RPI} \\ \text{LCSD} \\ \text{Result} \\ 24.0 \\ \end{array}$	Preparat LCS Result 24.1) is based Units mg/K	ion: 201 Units mg/Kg on the sp mg Dil. g 1	Dil. Dil. Like and s Spike Amount 20.0	Amount 20.0 pike duplica Matrix Result <2.32	Rec. Rec. 120	$\begin{array}{c} \text{Atrix} \\ \text{ssult} \\ \hline 2.32 \\ \text{ilt.} \\ \hline \text{Red} \\ \hline 100 \\ \hline 70 - 1 \end{array}$	Prepared Rec. 120 c. it Rl	By: AK Rec. Limit 70 - 130 PD RPD Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on the Param GRO	spike F	F resu C 5	$\begin{array}{c} \text{QC} \\ \hline \\ 5 \\ \hline \\ 1t. \text{ RPI} \\ \text{LCSD} \\ \text{Result} \\ \hline \\ 24.0 \\ \hline \\ 1t. \text{ RPI} \end{array}$	Preparat LCS Result 24.1) is based Units mg/K) is based	ion: 201 Units mg/Kg on the sp mg Dil. g 1	Dil. Dil. Like and s Spike Amount 20.0	Amount 20.0 pike duplica Matrix Result <2.32	Rec. Rec. 120 ate resu	$\begin{array}{c} \text{Atrix} \\ \text{ssult} \\ \hline 2.32 \\ \text{ilt.} \\ \hline \text{Red} \\ \hline 100 \\ \hline 70 - 1 \end{array}$	Prepared Rec. 120 c. it Rl	By: AK Rec. Limit 70 - 130 PD RPD Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on the Param GRO Percent recovery is based on the Surrogate	spike F	F resu C 5	QC 5 It. RPI LCSD Result 24.0 It. RPI L Re	Preparat LCS Result 24.1 D is based Units mg/K D is based CS L0 sult Ro	Units <u>Units</u> <u>mg/Kg</u> on the sp <u>a</u> Dil. <u>g</u> 1 on the sp CSD esult	Dil. Dil. 1 pike and s Spike Amount 20.0 pike and s	Amount 20.0 pike duplica Matrix Result <2.32 pike duplica Spil Dil. Amo	Rec. 120 ate resu ke unt	H atrix sult 2.32 alt. Rec Lim 70 - 1 alt. LCS Rec.	Prepared Rec. 120 c. it RJ 130 LCSD Rec.	By: AK Rec. Limit 70 - 130 PD Limit D 20 Rec. Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on the Param GRO Percent recovery is based on the	spike F	F resu C 5	$\begin{array}{r} QC\\ \hline C\\ \hline 5\\ lt. RPI\\ LCSD\\ Result\\ \hline 24.0\\ lt. RPI\\ L\\ Re\\ \hline 1\end{array}$	Preparat LCS Result 24.1 D is based C Units mg/K D is based CS L0 sult Ro 83 1	Units <u>Units</u> mg/Kg on the sp <u>s</u> Dil. <u>g</u> 1 on the sp CSD CSD CSD CSD Result 1 .83 n	Dil. Dil. 1 pike and s Spike Amount 20.0 pike and s	Amount 20.0 pike duplica Matrix Result <2.32 pike duplica Spil	Rec. 120 ate resu te resu ke unt 0	Hatrix sult 2.32 ilt. Rec Lim 70 - 1 ilt. LCS	Prepared Rec. 120 c. it RJ 130 LCSD	By: AK Rec. Limit 70 - 130 PD Limit D 20 Rec.

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Laboratory Control Spike (LCS-1)									
QC Batch: 116738 Prep Batch: 98708			te Analyzeo Preparatio		4-10-29 4-10-28				alyzed B epared B	
Param Chloride	F	С	LCS Result 2610	Units mg/Kg	Dil.	Spike Amount 2500	Re	atrix esult 19.2	Rec.	Rec. Limit 85 - 115
Percent recovery is based on the spike	resul	t. RP		-, -	-				104	00 - 110
Param F	С	LCSI Resul)	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPI	RPD Limit
Chloride		2610	mg/Kg	5	2500	$<\!19.2$	104	85 - 11	5 0	20
Laboratory Control Spike (LCS-1 QC Batch: 116802 Prep Batch: 98742			te Analyzed Preparatio		4-10-30 4-10-29			Pre	alyzed B epared B	y: MM
Param	\mathbf{F}	С	LCS Result	Units	Dil.	Spike Amount		atrix esult	Rec.	Rec. Limit
Chloride	Г	U	2670	mg/Kg	<u> </u>	2500		19.2	107	85 - 115
Percent recovery is based on the spike	resul	lt. RP	D is based o	on the sp	ike and sp	ike duplica	ate resi	ult.		
		LCSI)		Spike	Matrix		Rec.		RPD
Param F	С	Resul	t Units	Dil.	Amount	Result	Rec.	Limit		D Limit
Chloride		2670	mg/Kg	5	2500	< 19.2	107	85 - 11	5 0	20
										20
Percent recovery is based on the spike Laboratory Control Spike (LCS-1 QC Batch: 116843 Prep Batch: 98786		Da	D is based of te Analyzeo Preparatio	on the sp l: 2014				ult. An	alyzed B	y: MM

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2670	mg/Kg	5	2500	<19.2	107	85 - 115	0	20
				-, -							

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Param	F	С	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2620	mg/Kg	5	2500	<19.2	105	85 - 115	2	20
Percent recovery is based on the s	pike	resu	lt. RPD	is based or	ate res	ult.					

Laboratory Control Spike (LCS-1)

QC Batch: 116874 Prep Batch: 98788			Analyzed: Preparation		4-11-03 4-10-31				yzed B ared B	•
_	_		LCS			Spike		trix		Rec.
Param	F	C R	esult	Units	Dil.	Amount	Re	sult R	ec.	Limit
DRO		5	274 г	ng/Kg	1	250	< 7	7.41 1	10	70 - 130
Percent recovery is based on the	spike res	ult. RPD i LCSD	s based on	n the sp	oike and sj Spike	pike duplica Matrix	ate resu	lt. Rec.		RPD
Param	F C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	<u> </u>	262	mg/Kg	1	250	<7.41	105	70 - 130	4	20
Percent recovery is based on the	spike res	ult. RPD i	s based on	n the sp	oike and sp	pike duplica	ate resu	llt.		
	LCS	LCSE)			Spike	LCS	5 LCS	D	Rec.
Surrogate	Result	Resul	t Un	its	Dil.	Amount	Rec	. Rec		Limit

Laboratory Control Spike (LCS-1)

n-Tricosane

110

QC Batch:	116912	Date Analyzed:	2014-11-03	Analyzed By:	$_{\rm JS}$
Prep Batch:	98838	QC Preparation:	2014-11-03	Prepared By:	JS

mg/Kg

1

110

100

110

70 - 130

Param		F		LCS Result	Units	Dil.	Spike Amount		atrix esult Rec		Rec. Limit
GRO		1	,2,3,4	17.8	mg/Kg	g 1	20.0	0	.54 89	60.	1 - 120
Percent recovery is based on the	spike	e result	. RPD is	s based or	n the s	pike and sp	oike duplio	cate res	sult.		
			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO		1,2,3,4	19.9	mg/Kg	1	20.0	0.54	100	60.1 - 120	11	20

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

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Surrogate		LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	3 3	$1.90 \\ 1.95$	$2.03 \\ 2.04$	95 98	$\begin{array}{c} 102 \\ 102 \end{array}$	73 - 122 74.6 - 120			

Laboratory Control Spike (LCS-1)

QC Batch: 116984 Prep Batch: 98899	Date Analyzed:2014-11-05Analyzed By:MTQC Preparation:2014-11-05Prepared By:MT											
				LCS			Spike	Ma	atrix		Rec.	
Param	F	r	C F	esult	Units	Dil.	Amount	Re	esult Re	c	Limit	
GRO		1,	2,3,4	19.2	mg/Kg	g 1	20.0	<0).217 96	60	.1 - 120	
Percent recovery is based on the	he spike	result.	. RPD is	based o	n the sp	pike and sp	oike duplic	cate res	sult.			
			LCSD			Spike	Matrix		Rec.		RPD	
Param	\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit	
GRO		1,2,3,4	18.8	mg/Kg	1	20.0	< 0.217	94	60.1 - 120	2	20	

		LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	3	1.99	2.02	mg/Kg	1	2.00	100	101	73 - 122
4-Bromofluorobenzene (4-BFB)	3	1.94	1.96	$\mathrm{mg/Kg}$	1	2.00	97	98	74.6 - 120

Matrix Spikes

Matrix Spike (MS-1)	Spiked Sample:	377607						
QC Batch: 116624		Date Ar	•	4-10-24				yzed By: SC
Prep Batch: 98619		QC Prej	paration: 201	14-10-23			Prepa	ared By: SC
		MS	1		Spike	Mat	rix	Rec.
Param	F	C Resu		Dil.	Amount	Res		
DRO		5 705		1	250	38		
Percent recovery is based on	h the spike resu	lt. RPD is b	ased on the sp	oike and spi	ke duplica	te resul	t.	
		MSD		Spike	Matrix		Rec.	RPD
Param	\mathbf{F}	C Result	Units Di	l. Amount	Result	Rec.	Limit	RPD Limit
DRO	Qr,Qs Qr,Qs	5 497	mg/Kg 1	250	380	47	70 - 130	35 20
Percent recovery is based on	n the spike resu	lt. RPD is b	ased on the sp	oike and spi	ke duplica	te resul	t.	
	MS	MSD			Spike	MS	MSI) Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.		
n-Tricosane	130	125	mg/Kg	1	100	130	125	70 - 130
Matrix Spike (MS-1) QC Batch: 116702 Prep Batch: 98673	Spiked Sample:	Date An	v	4-10-28 4-10-27			v	zed By: AK red By: AK
QC Batch: 116702	Spiked Sample:	Date An	paration: 201		Spike	Mat	Prepa	v
QC Batch: 116702 Prep Batch: 98673 Param	Spiked Sample: F	Date An QC Prep MS C Resu	paration: 201	4-10-27 Dil.	Amount	Res	Prepa rix ult Re	red By: AK Rec. c. Limit
QC Batch: 116702 Prep Batch: 98673		Date An QC Prep MS	paration: 201	4-10-27 Dil.			Prepa rix ult Re	red By: AK Rec. c. Limit
QC Batch: 116702 Prep Batch: 98673 Param	F	Date An QC Prep MS C Resu 5 14.4	baration: 201 lt Units 4 mg/Kg	4-10-27 Dil.	Amount 20.0	Res	Prepa rix ult Re 32 72	red By: AK Rec. c. Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO	F	Date An QC Prep MS C Resu 5 14.4	baration: 201 lt Units 4 mg/Kg	4-10-27 Dil.	Amount 20.0	Res	Prepa rix ult Re 32 72	red By: AK Rec. c. Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on Param	F	Date An QC Prep MS \underline{C} Resu 5 14.4 It. RPD is b MSD Result U	$\frac{1}{2}$ $\frac{1}$	4-10-27 Dil. 1 Dike and spi Spike Amount	Amount 20.0 ke duplica Matrix Result	Res <2. te resul Rec.	$\begin{array}{c} \text{Prepa}\\ \text{rix}\\ \underline{\text{ult}} & \text{Re}\\ \underline{32} & \underline{72}\\ \text{t.}\\ \text{Rec.}\\ \text{Limit} \end{array}$	Rec. c. Limit 2 70 - 130 RPD RPD Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on	F 1 the spike resu	Date An QC Prep MS \underline{C} Resu 5 14.4 It. RPD is b MSD Result U	aration: 201 ult Units 4 mg/Kg ased on the sp	4-10-27 Dil. 1 Dike and spi Spike	Amount 20.0 ke duplica Matrix	Res <2. te resul Rec.	Prepa rix ult Re 32 $72t.Rec.$	red By: AK Rec. c. Limit 2 70 - 130 RPD
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on Param	F the spike resu F C 5	Date An QC Prep MS <u>C Resu</u> 5 14.4 It. RPD is b MSD Result U 14.8 m	baration: 201 Units <u>4 mg/Kg</u> ased on the sp Units Dil. <u>g/Kg 1</u>	4-10-27 Dil. 1 Dike and spi Spike Amount 20.0	Amount 20.0 ke duplica Matrix Result <2.32	Res <2. te resul Rec. 74	$\begin{array}{c} \text{Prepa}\\ \text{rix}\\ \underline{\text{ult}} & \text{Re}\\ \underline{32} & \underline{72}\\ \text{t.}\\ \text{t.}\\ \\ \text{Rec.}\\ \underline{\text{Limit}}\\ \underline{70} - 130 \end{array}$	Rec. c. Limit 2 70 - 130 RPD RPD Limit
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on Param GRO	F the spike resu F C 5	Date An QC Prep MS <u>C Resu</u> 5 14.4 It. RPD is b MSD Result U 14.8 m	baration: 201 Units <u>4 mg/Kg</u> ased on the sp Units Dil. <u>g/Kg 1</u>	4-10-27 Dil. 1 Dike and spi Spike Amount 20.0	Amount 20.0 ke duplica Matrix Result <2.32	Res <2. tte resul Rec. 74 tte resul	$\begin{array}{c} \text{Prepa}\\ \text{rix}\\ \underline{\text{ult}} & \text{Re}\\ \underline{32} & \underline{72}\\ \text{t.}\\ \text{t.}\\ \\ \text{Rec.}\\ \underline{\text{Limit}}\\ \underline{70} - 130 \end{array}$	red By: AK Rec. Limit 2 70 - 130 RPD Limit 3 20
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on Param GRO	F the spike resu F C 5	Date An QC Prep MS <u>C Resu</u> 5 14.4 It. RPD is b MSD Result U 14.8 m It. RPD is b	aration: 201 Units Units <u>4 mg/Kg</u> ased on the sp Units Dil. <u>g/Kg 1</u> ased on the sp MSD	4-10-27 Dil. 1 Dike and spi Spike Amount 20.0 Dike and spi	Amount 20.0 ke duplica Matrix Result <2.32 ke duplica	Res <2. tte resul Rec. 74 tte resul ke	$\begin{array}{c} \text{Prepa}\\ \text{rix}\\ \frac{\text{ult}}{32} \text{Re}\\ \frac{1}{32} \frac{1}{32}\\ \text{t.}\\ \frac{\text{Rec.}}{130}\\ \frac{1}{30}\\ \text{t.} \end{array}$	red By: AK Rec. c. Limit 2 70 - 130 RPD RPD Limit 3 20 SD Rec.
QC Batch: 116702 Prep Batch: 98673 Param GRO Percent recovery is based on Param GRO Percent recovery is based on	F The spike resurve of F C 5 The spike resurve of 5	Date An QC Prep MS <u>C Resu</u> 5 14.4 It. RPD is b MSD Result U 14.8 m It. RPD is b MS	A paration: 201 Label	4-10-27 Dil. 1 Dike and spi Spike Amount 20.0 Dike and spi Units D	Amount 20.0 ke duplica Matrix Result <2.32 ke duplica Spi	Res. <2. te resul Rec. 74 te resul ke punt	$\begin{array}{c} \text{Prepa} \\ \text{rix} \\ \text{ult} \text{Re} \\ 32 72 \\ \text{t.} \\ \text{Rec.} \\ \text{Limit} \\ 70 - 130 \\ \text{t.} \\ \text{MS} \text{MS} \end{array}$	red By: AK Rec. c. Limit 2 70 - 130 RPD RPD Limit 3 20 SD Rec. ec. Limit 4 70 - 130

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Matrix Spike (MS-1)	Spiked Sam	ple: 3776	507								
QC Batch: 116738 Prep Batch: 98708			ate Analyz C Preparat		14-10-29 14-10-28				Analyz Prepar		MM WK
Param	F	С	MS Result	Units	Dil.	Spike Amount	Ma Res	sult	Rec.]	Rec. Limit
Chloride			2510	mg/Kg		2500	23		91	78.	9 - 121
Percent recovery is based	on the spike r	esult. R	PD is based	l on the s	spike and s	spike dupli	cate res	ult.			
Param	F (MS C Resu		Dil.	Spike Amount	Matrix Result	Rec.		ec. mit	RPD	RPD Limit
Chloride		265	0 mg/Kg	g 5	2500	237	96	78.9	- 121	5	20
QC Batch: 116802 Prep Batch: 98742			0ate Analyz 2C Preparat		14-10-30 14-10-29				Analyz Prepar	ed By:	MM
Danam	F	С	MS Dogult	Unita	D:1	Spike Amount	Ma Da		Dec		Rec.
Param Chloride	F	С	Result 7280	Units mg/Kg	Dil. 50	2500		sult 50	Rec. 97		Limit 9 - 121
Percent recovery is based	on the spike r	esult. R		0, 0					0.		
	F				-						DDD
Param	F (MS C Resi		Dil.	Spike Amount	Matrix Result	Rec.		ec. mit	RPD	RPD Limit
Chloride		777			2500	4850	117		- 121	6	20
	-										
Percent recovery is based	on the spike r	esult. R.	PD is based	l on the s	spike and s	spike duplie	cate res	ult.			
Percent recovery is based Matrix Spike (MS-1)	on the spike re Spiked Samp			l on the s	spike and s	spike duplio	cate res	ult.			
·	-	ple: 3776 D		ed: 20	spike and s 14-10-31 14-10-31	spike duplio	cate res		Analyz Prepar	•	MM MM
Matrix Spike (MS-1) QC Batch: 116843	-	ple: 3776 D Q	514 Date Analyz	ed: 20	14-10-31	spike duplic Spike Amount	cate res Ma Res	trix	•	ed By:	

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			MSD			Spike	Matrix		Rec.		RPD		
Param	\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit		
Chloride			2820	$\mathrm{mg/Kg}$	5	2500	<19.2	103	78.9 - 121	3	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: 378297

QC Batch:	116874	Date Analyzed:	2014-11-03	Analyzed By:	\mathbf{SC}
Prep Batch:	98788	QC Preparation:	2014-10-31	Prepared By:	\mathbf{SC}

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO		5	431	m mg/Kg	1	250	158	109	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	417	$\mathrm{mg/Kg}$	1	250	158	104	70 - 130	3	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	110	110	m mg/Kg	1	100	110	110	70 - 130

Matrix Spike (MS-1) Spiked Sample: 377612

QC Batch:	116912	Date Analyzed:	2014-11-03	Analyzed By:	$_{\rm JS}$
Prep Batch:	98838	QC Preparation:	2014-11-03	Prepared By:	JS

					MS			Spike	Ma	atrix		Rec.
Param		F		C I	Result	Units	Dil.	Amount	Re	esult Red	e.]	Limit
GRO	$_{\rm Qs}$	Q	s 1,	,2,3,4	268	mg/Kg	g 2	20.0	2	278 -50	0 40	.3 - 120
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	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	$_{\rm Qs}$	Qs :	1,2,3,4	284	mg/Kg	2	20.0	278	30	40.3 - 120	6	20

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Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit	
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Qsr Qsr	3 3	$\begin{array}{c} 1.62 \\ 8.58 \end{array}$	$1.62 \\ 9.32$	mg/Kg mg/Kg	$2 \\ 2$	$2 \\ 2$	81 429	$\frac{81}{466}$	73 - 122 74.6 - 120	

Matrix Spike (MS-1) Spiked Sample: 377614

QC Batch:	116984	Date Analyzed:	2014-11-05	Analyzed By:	\mathbf{MT}
Prep Batch:	98899	QC Preparation:	2014-11-05	Prepared By:	\mathbf{MT}

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO		1,2,3,4	149	m mg/Kg	2	20.0	127	110	40.3 - 120

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	$_{\rm Qs}$	$_{\rm Qs}$	1,2,3,4	135	$\mathrm{mg/Kg}$	2	20.0	127	40	40.3 - 120	10	20

				MS	MSD			Spike	MS	MSD	Rec.
Surrogate				Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)			3	1.73	1.57	mg/Kg	2	2	86	78	73 - 122
4-Bromofluorobenzene (4-BFB)	Qsr	$_{\rm Qsr}$	3	6.38	5.94	$\mathrm{mg/Kg}$	2	2	319	297	74.6 - 120
Calibration Standards

Standard (CCV-1)

QC Batch:	116624		Date	Analyzed:	2014-10-24		Analy	vzed 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	237	95	80 - 120	2014-10-24

Standard (CCV-2)

QC Batch:	116624		Date	Analyzed:	2014-10-24		Analy	zed By: SC
				CCVs	$\rm CCVs$	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		5	m mg/Kg	250	243	97	80 - 120	2014-10-24

Standard (CCV-1)

QC Batch:	116702		Date	Analyzed:	2014-10-28		Analy	zed By: AK
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	m mg/Kg	1.00	1.02	102	80 - 120	2014-10-28

Standard (CCV-2)

QC Batch:	116702		Date	Analyzed:	2014-10-28		Analy	zed By: AK
				CCVs True	$\begin{array}{c} \mathrm{CCVs} \\ \mathrm{Found} \end{array}$	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		5	m mg/Kg	1.00	0.916	92	80 - 120	2014-10-28

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Standard (ICV	V-1)									
QC Batch: 116738			Date A	Analyzed:	2014-10-29		Analyzed By: MM			
				ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date		
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed		
Chloride			mg/Kg	100	100	100	85 - 115	2014-10-29		
Standard (CC	V-1)									
QC Batch: 116	738		Date A	Analyzed:	2014-10-29		Analyz	zed By: MM		
				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	2014-10-29		
Standard (ICV-1)		Date Analyzed:								
Standard (ICV QC Batch: 116	,		Date A	Analyzed:	2014-10-30		Analyz	zed By: MM		
, ,	,		Date A	Ť		ICVa		zed By: MM		
, ,	,		Date A	ICVs	ICVs	ICVs Percent	Percent	·		
QC Batch: 116	802	Cert		ICVs True	ICVs Found	Percent	Percent Recovery	Date		
QC Batch: 116 Param	,	Cert	Date A Units mg/Kg	ICVs	ICVs		Percent	·		
QC Batch: 116 Param Chloride Standard (CC		Cert	Units mg/Kg	ICVs True Conc. 100	ICVs Found Conc. 100	Percent Recovery	Percent Recovery Limits 85 - 115	Date Analyzed 2014-10-30		
, ,		Cert	Units mg/Kg	ICVs True Conc. 100	ICVs Found Conc. 100 2014-10-30	Percent Recovery 100	Percent Recovery Limits 85 - 115 Analyz	Date Analyzed 2014-10-30		
QC Batch: 116 Param Chloride Standard (CC		Cert	Units mg/Kg	ICVs True Conc. 100 Analyzed: CCVs	ICVs Found Conc. 100 2014-10-30 CCVs	Percent Recovery 100 CCVs	Percent Recovery Limits 85 - 115 Analyz Percent	Date Analyzed 2014-10-30 zed By: MM		
QC Batch: 116 Param Chloride Standard (CC		Cert	Units mg/Kg	ICVs True Conc. 100	ICVs Found Conc. 100 2014-10-30	Percent Recovery 100	Percent Recovery Limits 85 - 115 Analyz	Date Analyzed 2014-10-30		

Standard (ICV-1)

QC Batch: 116843

Date Analyzed: 2014-10-31

Analyzed By: MM

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Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			m mg/Kg	100	100	100	85 - 115	2014-10-31
Standard (C	CV-1)							
QC Batch: 1	16843		Date A	Analyzed: 2	2014-10-31		Analyz	zed By: MM
_				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed 2014-10-31
Chloride			mg/Kg	100	100	100	85 - 115	2014-10-01
Chloride Standard (C	2CV-1)				2014-11-03	100		vzed By: SC
Chloride Standard (C	2CV-1)			Analyzed: CCVs	2014-11-03 CCVs	$\rm CCVs$	Analy Percent	vzed By: SC
Chloride Standard (C QC Batch: 1	2 CV-1) 16874	Cert	Date	Analyzed: CCVs True	2014-11-03 CCVs Found	CCVs Percent	Analy Percent Recovery	vzed By: SC Date
Chloride Standard (C QC Batch: 1 Param	2CV-1)	Cert 5		Analyzed: CCVs	2014-11-03 CCVs	$\rm CCVs$	Analy Percent	vzed By: SC Date Analyzed
Chloride Standard (C QC Batch: 1 Param DRO	2 CV-1) 16874 Flag		Date Units	Analyzed: CCVs True Conc.	2014-11-03 CCVs Found Conc.	CCVs Percent Recovery	Analy Percent Recovery Limits	vzed By: SC Date Analyzed
Chloride Standard (C QC Batch: 1 Param	2CV-1) 16874 Flag 2CV-2)		Date Units mg/Kg	Analyzed: CCVs True Conc.	2014-11-03 CCVs Found Conc. 244	CCVs Percent Recovery	Analy Percent Recovery Limits 80 - 120	vzed By: SC
Chloride Standard (C QC Batch: 1 Param DRO Standard (C	2CV-1) 16874 Flag 2CV-2)		Date Units mg/Kg	Analyzed: CCVs True Conc. 250	2014-11-03 CCVs Found Conc. 244 2014-11-03	CCVs Percent Recovery	Analy Percent Recovery Limits 80 - 120	vzed By: SC Date Analyzed 2014-11-03
Chloride Standard (C QC Batch: 1 Param DRO Standard (C	2CV-1) 16874 Flag 2CV-2)		Date Units mg/Kg	Analyzed: CCVs True Conc. 250 Analyzed:	2014-11-03 CCVs Found Conc. 244	CCVs Percent Recovery 98	Analy Percent Recovery Limits 80 - 120 Analy	vzed By: SC Date Analyzed 2014-11-0;
Chloride Standard (C QC Batch: 1 Param DRO Standard (C	2CV-1) 16874 Flag 2CV-2)		Date Units mg/Kg	Analyzed: CCVs True Conc. 250 Analyzed: CCVs	2014-11-03 CCVs Found Conc. 244 2014-11-03 CCVs	CCVs Percent Recovery 98 CCVs	Analy Percent Recovery Limits 80 - 120 Analy Percent	vzed By: SC Date <u>Analyzed</u> 2014-11-0: vzed By: SC

Standard (CCV-1)

QC Batch: 116912

Date Analyzed: 2014-11-03

Analyzed By: JS

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	
GRO		1,2,3,4	m mg/Kg	1.00	0.957	96	80 - 120	2014-11-03	
Standard (C	CCV-2)								
QC Batch: 1	116912		Date	Analyzed:	2014-11-03		Anal	yzed By: JS	
D			T T 1	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date	
Param	Flag	Cert	Units mg/Kg	Conc. 1.00	Conc. 1.08	Recovery 108	Limits 80 - 120	Analyzed 2014-11-03	
GRO		1,2,3,4	ing/ itg						
GRO Standard (C QC Batch: 1	,	1,2,3,4			2014-11-05		Analy	zed By: MT	
Standard (C	,	1,2,3,4		Analyzed: CCVs	CCVs	CCVs	Percent	,	
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Standard (C	Flag	Cert	Date	Analyzed: CCVs True Conc.	CCVs Found Conc.	Percent Recovery	Percent Recovery Limits	Date	
Standard (C QC Batch: 1 Param GRO	Flag	Cert	Date Units mg/Kg	Analyzed: CCVs True Conc. 1.00	CCVs Found Conc.	Percent Recovery	Percent Recovery Limits 80 - 120	Date Analyzed	
Standard (C QC Batch: 1 Param GRO Standard (C	Flag	Cert	Date Units mg/Kg	Analyzed: CCVs True Conc. 1.00	CCVs Found Conc. 1.03	Percent Recovery	Percent Recovery Limits 80 - 120	Date Analyzed 2014-11-05	
Standard (C QC Batch: 1 Param GRO Standard (C	Flag	Cert	Date Units mg/Kg	Analyzed: CCVs True Conc. 1.00 Analyzed: CCVs	CCVs Found Conc. 1.03 2014-11-05 CCVs	Percent Recovery 103 CCVs	Percent Recovery Limits 80 - 120 Analy Percent	Date Analyzed 2014-11-05 zed By: MT	

Page Number: 29 of 30 Lea Co, NM

Appendix

Report Definitions

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

Laboratory Certifications

	Certifying	Certification	Laboratory
С	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

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.

Work Order: 14102203 Regency/Trunk M2 Drip Tanks Page Number: 30 of 30 Lea Co, NM

F Description

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.

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APPENDIX F

Initial and Final C-144

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

A THE SA

Section of

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

Form C-144 June 1, 2004

	Santa Fe, NM 87505	lce
Pit or Below-Gr	ade Tank Registration or Clo	sure
Is pit or below-grade ta	nk covered by a "general plan"? Yes X	No
Type of action: Registration of a pit	or below-grade tank 📋 Closure of a pit or below	v-grade tank
Operator: Southern Union Gas Services Telephone: 57	5-395-2116 e-mail address:	tony savoie asua com
Address: P.O. Box 1226 Jal, New Mexico 88252	e-man address	tony.savore (a)sug.com
	U/L or Qtr/Qtr	P See 21 . T 22 C D 27 C
Country Las		B Sec 31 T 23 S R 37E 11.975₩ NAD: 1927 ⊠ 1983 □
Surface Owner: Federal 🗌 State 🗋 Private 🖾 Indian 🗍	Longhade 105 deg	NAD: 1927 🖾 1983 🗋
Pit	Below-grade tank	
Type: Drilling Production Disposal	Volume210_bbl Type of fluidProduce	d sustain and and a 11
Workover Emergency	Construction material:Steel_	a water and crude on
Lined Unlined	Double-walled, with leak detection? Yes 1	
Liner type: Synthetic Thickness mil Clay	Tank was installed by EPNG before the BGT	
Pit Volumebbl	raik was instance by EPNO before the BOI	regulations were written
	Less than 50 feet	(20 points)
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(20 points)
high water elevation of ground water.) Average 109 ft.	100 feet or more	(10 points) with
		(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No	(0 points)
No, 2753 Horiz. Ft. to a private water well		(o points)
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)
4.83 Horizontal miles to a playa and an intermittent water course.	1000 feet or more	(0 points)
	Ranking Score (Total Points)	0 Points
f this is a pit closures (1) Attach a diagram fold (2) the state of the		
f this is a pit closure: (1) Attach a diagram of the facility showing the pit	s relationship to other equipment and tanks. (2) In	dicate disposal location (check the onsite box if
our are burying in place) onsite in offsite in the offsite, name of facility_	(3) Attach a gener	al description of remedial action taken including
emediation start date and end date. (4) Groundwater encountered: No	Yes I If yes, show depth below ground surface	ft. and attach sample results.
5) Attach soil sample results and a diagram of sample locations and excava		
Additional Comments: The Below Grade Tank will be removed in accordate	nce with the NMOCD proposed Pit and Below Gra	ade Tank Rules.
		BEREMEN
		REVENEL
		MAR 1 9 2008
I hereby costify that the information is a second sec		HORS OCD
I hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideline	of my knowledge and belief. I further certify that	it the above-described pit or below-grade tank
	and an (attached) alter	nauve OCD-approved plan [].
Date: _3/19/08		
Printed Name/ Tony Savoie	0 0	
TitleWaste Management and Remediation Specialist Signature		
Your certification and NMOCD approval of this application/closure does n otherwise endanger public health or the environment Nor does it relieve the	ot relieve the operator of liability should the conter the operator of its responsibility for compliance with	nts of the pit or tank contaminate ground water or any other federal, state, or local laws and/or
Approval:	Column	
Printed Name/Title	Signature	Date: 3.19.08
	ENVIRONMENTAL EN	SINEER 1 RP-1819
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	State of New Mexico
Ene	ergy Minerals and Natural Resources
	Department
	Oil Conservation Division
	1220 South St. Francis Dr.
	Santa Fe, NM 87505

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1. Operator: <u>Regency Field Services LLC.</u> OGRID #: <u>N/A</u>
Address: 421 West 3 rd Street, Suite 250, Ft. Worth, TX 76102
Facility or well name: Trunk M-2 Drip Tanks
API Number: OCD Permit Number:
U/L or Qtr/Qtr <u>G</u> Section <u>31</u> Township <u>23S</u> Range <u>37E</u> County: <u>Lea</u>
Center of Proposed Design: Latitude 32.263963 Longitude -103.199587 NAD: 1927 1983
Surface Owner: 🗌 Federal 🗌 State 🖾 Private 🗌 Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
 <u>Alternative Method</u>: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other_

6.

8

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
 Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acce material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	a below in the application. Recommendations of acceptable source bove-grade tanks.	
General siting		
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. -	□ Yes ⊠ No □ NA	
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ⊠ NA	
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No	
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Yes No	
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No	
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No	
Below Grade Tanks		
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No	
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🖾 No	
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)		
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No	

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	Yes No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	Yes No
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.	
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No
10. Temperany Bits Emergence Bits and Balance I. T. J. D. Stat. Hard and S. Stat. Stat.	
<u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do	MAC cuments are
attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC.	
 Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC) NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19, and 19.15.17.13 NMAC	.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number: _	
11. <u>Multi-Well Fluid Management Pit Checklist</u> : Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached.	cuments are
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC 	
 A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 	15 17 9 NMAC
and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	AUTO NUMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Oil Conservation Division

12.	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documentation attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	nents are
13. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fluid M Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	anagement Pit
 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached. Note: Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	ed to the
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source map provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please 19.15.17.10 NMAC for guidance.	terial are refer to
NM Office of the State Engineer WATERC 1-t-1-1 UCCC D-t-1-1 UCCC	Yes 🗌 No NA
NM Office of the State Engineer WATERS details and UCCC Distance in the	Yes 🗌 No NA
NM Office of the Chate Freiter WATERC 1.11 1 DOOD R. 1.1 10	Yes 🗌 No NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Topographic map; Visual inspection (certification) of the proposed site	Yes 🗌 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes 🗌 No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes 🗌 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification man: Topographic man: Visual inspection (certification) of the proposed site	Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	
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adopted pursuant to NIACA 1070 Cont 2 07 2		
 adopted pursuant to NMSA 1978, Section 3-27-3, as amene Written confirmation or verification from the muni 	ded. icipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the	he NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area.		
 Engineering measures incorporated into the design Society; Topographic map 	; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes No
Within a 100-year floodplain. - FEMA map		
•		Yes No
 by a check mark in the box, that the documents are attach Siting Criteria Compliance Demonstrations - based u Proof of Surface Owner Notice - based upon the app Construction/Design Plan of Burial Trench (if applied Construction/Design Plan of Temporary Pit (for in-p Protocols and Procedures - based upon the appropriation Confirmation Sampling Plan (if applicable) - based u Waste Material Sampling Plan - based upon the approximation 	upon the appropriate requirements of 19.15.17.10 NMAC ropriate requirements of Subsection E of 19.15.17.13 NMAC cable) based upon the appropriate requirements of Subsection K of 19.15 blace burial of a drying pad) - based upon the appropriate requirements of the requirements of 19.15.17.13 NMAC upon the appropriate requirements of 19.15.17.13 NMAC ropriate requirements of 19.15.17.13 NMAC tids, drilling fluids and drill cuttings or in case on-site closure standards of the terments of Subsection H of 19.15.17.13 NMAC	.17.11 NMAC 19.15.17.11 NMAC
17.		
Operator Application Certification: Lhereby certify that the information submitted with this an	plication is true, accurate and complete to the best of my knowledge and	baliaf
Name (Print):		
Name (1 1111).	Title:	
Signature:	Date:	
e-mail address:	Telephone:	
18. OCD Approval: Permit Application (including closur	re plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature:		
	Approvar Date.	
Title:	OCD Permit Number:	
The closure report is required to be submitted to the divisi	pletion): 19.15.17.13 NMAC ed closure plan prior to implementing any closure activities and submit ion within 60 days of the completion of the closure activities. Please do en obtained and the closure activities have been completed.	ting the closure report. not complete this
	Closure Completion Date:	
 20. Closure Method: Waste Excavation and Removal On-Site Closure If different from approved plan, please explain. 	Method 🗌 Alternative Closure Method 🗌 Waste Removal (Close	d-loop systems only)

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowled belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. Name (Print):		rator Closure Certification:
Signature: Cyfel Colleure Date: 1/15/15	dge and	eby certify that the information and attachments submitted with this closu
	rel.	10 (Print): VYSEH CALLAUBY
e-mail address: Ctoftel. CAll Autor Chesproy GAS COm Telephone:		il address: CALAWAY CREEPROJGAS