

REMEDIATION SUMMARY AND SOIL CLOSURE REQUEST

ETC FIELD SERVICES, LLC
Field Scrubber Dump Tanks
Lea County, New Mexico
UNIT LTR "I", Section 32, Township 24 South, Range 37 East, NMPM
Latitude 32.173676° North, Longitude 102.173696° West
NMOCD Reference No. 1RP-4408

APPROVED

By Olivia Yu at 8:09 am, Dec 29, 2017

Prepared For:

ETC Field Services, LLC 800 East Sonterra San Antonio, Texas 78258 NMOCD approves of the closure for 1RP-4408 and BGTs.

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December 2017

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INTRODUCTION AND BACKGROUND INFORMATION

TRC Environmental Corporation (TRC) has prepared the following *Remediation Summary and Closure Request* in regard to recent field activities conducted at the "Field Scrubber Dump Tanks" below-grade tanks (BGTs) site at ETC Field Services, LLC's (ETC) Jal #3 Gas Plant. The site is located in Unit Letter "I" of Section 32, Township 24 South, Range 37 East in Lea County, New Mexico. The "Field Scrubber Dump Tanks", were located adjacent to one another immediately west of the Jal #3 Gas Processing Plant. The site consists of the northern field scrubber dump tank, which could be described as 210-barrel (bbl) steel tank and the southern field scrubber dump tank, which could be described as a 210-bbl fiberglass tank. Each of the BGTs were formerly utilized to contain pipeline liquids. A "Site Location Map" is provided as Figure 1. Copies of the Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Applications (Form C-144s) are provided in Appendix E.

During the initial investigation, three (3) excavations (Excavation A, Excavation B and Excavation C) measuring approximately three (3) to four (4) feet (ft.) in depth were observed adjacent to and in the vicinity of the BGTs. Review of historical documentation indicated, the shallow excavations are related to remediation activities of a previous BGT overflow release (1RP-4408) conducted by an alternate environmental contractor which is no longer affiliated with the site. Review of the Release Notification and Corrective Action (Form C-141) indicated the failure of the field scrubber dump valve resulted in the storage tanks being "overtopped", releasing approximately twenty (20) bbls of a oil and produced water mixture. During initial response activities approximately fifteen (15) bbls of free-standing fluid were recovered utilizing a vacuum truck. The release affected the area around the tanks, along with areas to the west and south of the tanks. Original field notes and laboratory analytical data were not readily available. A copy of the Release Notification and Corrective Action (Form C-141) is provided in Appendix D.

On August 7, 2017, representatives of the NMOCD, TRC and ETC met to discuss the site. During the meeting, it was determined the open excavations adjacent to and in the vicinity of the BGTs would be remediated in accordance with the NMOCD *Guidelines for the Remediation of Leaks, Spills and Releases*. Soil beneath the BGTs would be remediated in accordance with the *Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the bottom of pit to groundwater is greater than 100 ft.

NMOCD SITE CLASSIFICATION

Review of the New Mexico Water Rights Reporting System (NMWRRS) online database indicated depth to groundwater information is not available for Section 32, Township 24 South, Range 37 East. Review of a depth to groundwater gradient map utilized by the NMOCD indicated groundwater is estimated to be encountered at approximately 220 ft. below ground surface (bgs). Based on the NMOCD site classification system, zero (0) points will be assigned to the Release Site as a result of this criterion.

No water wells were observed within one-thousand (1,000) ft. of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No surface water was observed within one thousand (1,000) ft. of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

The NMOCD guidelines indicate the Site has a ranking score of zero (0). Based on this score, the Recommended Remediation Action Levels (RRAL) for a release site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/kg (ppm)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) 50 mg/kg (ppm)
- Total Petroleum Hydrocarbons (TPH) 5,000 mg/kg (ppm)
- Chloride 600 mg/kg (ppm)

The Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed for sites where the depth below the bottom of pit to groundwater is greater than 100 ft. are as follows:

- Benzene -10 mg/kg (ppm)
- BTEX -50 mg/kg (ppm)
- Gasoline Range Organics (GRO) + Diesel Range Organics (DRO) 1,000 mg/kg (ppm)
- TPH -2,500 mg/kg (ppm)
- Chloride -20,000 mg/kg (ppm)

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On July 18, 2017, TRC collected soil samples from the floor and sidewalls of each of the open excavations and submitted the soil samples to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, total petroleum hydrocarbon (TPH) and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples, with the exception of soil Exc. B South Sidewall, which exhibited a TPH concentration of 5,520.1 milligrams per kilogram (mg/kg). Sample locations are depicted on Figure 3. A tables summarizing "Concentrations of Benzene, BTEX, TPH and Chloride in Soil (1RP-4408)" is provided as Table 2. Laboratory analytical reports are provided in Appendix A.

On August 4, 2017, ETC submitted a *Proposed Closure Strategy – Field Scrubbers* (*Closure Strategy*) to the New Mexico Oil Conservation Division (NMOCD) proposing field activities designed to advance the field scrubber BGTs toward an NMOCD-approved closure. The *Closure Strategy* proposed closing the BGTs by removing the remaining contents from each of the BGTs, disposing of the contents at an NMOCD-permitted facility, removal of the BGTs, conducting an inspection of the bottom and sides of each of the BGTs along with the adjacent soil. In addition, the *Closure Strategy* included the collection of a composite soil sample beneath each of the BGTs former location. The *Closure Strategy* was subsequently approved.

On August 7, 2017, representatives of the NMOCD, TRC and ETC met to discuss the site. During the meeting, it was determined that the open excavations adjacent to and in the vicinity of the BGTs would be remediated in accordance with the NMOCD *Guidelines for the Remediation of Leaks, Spills and Releases*.

On August 23, 2017, excavation activities commenced. Impacted soil in the area represented by soil sample Exc. B South Sidewall was excavated and stockpiled on-site, atop an impermeable polyurethane liner. Upon advancing Excavation B toward the south, one (1) soil sample (Exc. B SSWb) was collected and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX and chloride concentrations were below the NMOCD RRAL. Soil sample Exc. B SSWb exhibited a TPH concentration of 12,186.4 mg/kg. In addition, delineation trenches were advanced in the floors of the three (3) open excavations. During the advancement of the delineation trench, one (1) soil sample was collected from the base of each trench approximately five (5) ft. beneath the current grade. The collected soil samples (Exc. A TT @ 9', Exc. B TT @ 8' and were submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples.

On August 24, 2017, as per the approved *Closure Strategy*, the northern, steel BGT was removed utilizing mechanical equipment. Upon removing the BGT, a visual inspection was conducted on the base and sides of the BGT to search for evidence of a release. During the inspection, the tank appeared to be intact and no evidence of failures were discovered. In addition, the adjacent soils were inspected for stains or excessive moisture. The observed soil beneath the steel BGT did not exhibit staining or excessive moisture; slight staining was noted in the south sidewall of former steel BGT location. As per the approved *Closure Strategy*, one (1) five-point composite soil sample (N. BGT Floor @ 18') was collected from soil beneath the tank's former location and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene, BTEX, GRO+DRO, TPH and chloride concentrations were below the *Closure Criteria for Soils beneath BGTs*, *Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the bottom of pit to groundwater is greater than 100 ft.

In addition, four (4) sidewall soil samples (N. BGT NSW, N. BGT ESW, N. BGT SSW and N. BGT WSW) were collected from the adjacent sidewalls at approximately thirteen (13) ft. bgs and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory reporting limit (RL) in each of the submitted soil samples. BTEX concentrations ranged from less than the laboratory RL in soil samples N. BGT NSW and N. BGT WSW to 9.664 mg/kg in soil sample N. BGT SSW. TPH concentrations ranged from less than the laboratory RL in soil samples N. BGT NSW and N. BGT WSW to 1,932 mg/kg in soil sample N. BGT SSW. Chloride concentrations ranged from 21.7 mg/kg in soil sample N. BGT NSW to 104 mg/kg in soil sample N. BGT SSW. Benzene, BTEX, TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples.

On August 28, 2017, the southern, fiberglass BGT was removed utilizing mechanical equipment. Upon removing the BGT, a visual inspection was conducted on the base and sides of the BGT to search for evidence of a release. During the inspection, the tank appeared to be intact and no evidence of failures were discovered. In addition, the adjacent soils were inspected for stains or excessive moisture. Soil beneath the fiberglass BGT exhibited slight staining but no excessive moisture. Staining was also observed in the northern, western and eastern sidewalls of former fiberglass BGT location. A portion of the staining appeared to be related to anoxic conditions as opposed to hydrocarbon staining. As per the approved Closure Strategy, one (1) five-point composite soil sample (S. BGT Floor @ 18') was collected from soil beneath the tank's former location and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were below the Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed for sites where the depth below the bottom of pit to groundwater is greater than 100 ft. The combined GRO+DRO concentrations exceeded the Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed for sites where the depth below the bottom of pit to groundwater is greater than 100 ft.

In addition, four (4) sidewall soil samples (S. BGT NSW, S. BGT ESW, S. BGT SSW and S. BGT WSW) were collected from the adjacent sidewalls and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory RL in each of the submitted soil samples, with the exception of S. BGT ESW, which exhibited a benzene concentration of 15.6 mg/kg. BTEX concentrations ranged from 9.78 mg/kg in soil sample S. BGT SSW to 135.04 mg/kg in soil sample S. BGT ESW. TPH concentrations ranged from 977.5 mg/kg in soil samples S. BGT SSW to 20,200 mg/kg in soil sample S. BGT ESW. Chloride concentrations ranged from 22.5 mg/kg in soil sample S. BGT WSW to 313 mg/kg in soil sample S. BGT NSW. Benzene, BTEX, TPH and chloride concentrations were below the NMOCD RRAL in each of the submitted soil samples, with the exception of soil samples S. BGT ESW and S. BGT WSW, which exhibited TPH concentrations of 20,200 mg/kg and 5,431 mg/kg, respectively.

On September 18, 2017, TRC submitted a *Remediation Summary and Proposed Closure Strategy* (*Proposed Closure Strategy*) to the NMOCD, on behalf of ETC, detailing field activities and laboratory analytical results from confirmation soil samples collected to date.

ETC proposed the following field activities designed to advance the Field Scrubber Dump Tank site toward an NMOCD-approved closure:

- Advance the floor of the excavation in the area represented by soil sample S. BGT Floor @ 18', until laboratory analytical results from confirmation soil samples indicated TPH concentrations were below the Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed for sites where the depth below the bottom of pit to groundwater is greater than 100 ft
- Advance the sidewalls of the excavation in the area represented by soil samples S. BGT ESW, S. BGT WSW and Exc. B SSWb until laboratory analytical results from

confirmation soil samples indicate BTEX and/or TPH concentrations were below the NMOCD RRAL.

- Transport excavated material to an NMOCD-permitted facility for disposal.
- Upon receiving laboratory analytical results from confirmation soil samples and NMOCD permission, backfill the three (3) excavated areas and former BGT locations with locally sourced, non-impacted material.

The Proposed Closure Strategy was subsequently approved. Please reference the *Remediation Summary and Proposed Closure Strategy* for the Field Scrubber Dump Tanks & 1RP-4408, dated September 13, 2017, for additional details.

On October 18, 2017, remediation activities resumed at the Site. As per the approved *Proposed Remediation Strategy*, the floor of the excavation in the area represented by soil sample S. BGT Floor @ 18' was advanced until field observations suggested TPH concentrations were below the *Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the bottom of pit to groundwater is greater than 100 ft. Upon advancing the floor of the excavation, one (1) confirmation soil samples (S. BGT Floor @ 21') was collected from the base of the excavated area and submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated the combined GRO+DRO and TPH (662 mg/kg) concentrations were below the *Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the bottom of pit to groundwater is greater than 100 ft.

As per the approved *Proposed Remediation Strategy*, excavation sidewalls in the area represented by soil samples S. BGT ESW, S. BGT WSW and Exc. B SSWb were advanced until laboratory analytical results from confirmation soil samples indicate BTEX and/or TPH concentrations were below the NMOCD RRAL. Upon advancing the sidewalls of the excavated areas, three (3) confirmation soil samples (Exc. B SSWb, S. BGT ESWb and S. BGT WSWb) were collected from the excavated area and submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations ranged from 603 mg/kg in soil sample S. BGT WSWb to 4,223 mg/kg in soil sample S. BGT ESWb. Soil sample S. BGT ESWb was also analyzed for concentrations of benzene and BTEX, which were determined to be less than the laboratory RL and 14.99 mg/kg, respectively. Laboratory analytical results indicated benzene, BTEX and/or TPH concentrations were below the NMOCD RRAL in each of the submitted soil samples.

The final dimensions of the excavated area characterized by the former north BGT were approximately eighteen (18) ft. in length, eighteen (18) ft. in width and eighteen (18) ft. in depth. The final dimensions of the excavated area characterized by the former south BGT were approximately twenty-four (24) ft. in length, eighteen (18) ft. in width and twenty-one (21) ft. in depth. The final dimensions of Excavation A were approximately sixty (60) ft. in length, ten (10) to forty (40) ft. in width and four (4) ft. in depth. The final dimensions of Excavation B were approximately sixty (60) ft. in length, twenty (20) ft. in width and three (3) ft. in depth. The final dimensions of Excavation C were approximately sixty-seven (67) ft. in length, eight (8) to twenty (20) ft. in width and four (4) ft. in depth. A photographic log is provided as Appendix B.

Upon receiving laboratory analytical results from confirmation soil samples, the excavated areas were backfilled with locally purchased, non-impacted material in an effort to mitigate safety concerns associated with the open excavations. Excavation backfill was compacted and graded to match the surrounding topography. Between October 16 and November 14, 2017, approximately five hundred and thirty-six (536) cubic yards (cy) of impacted soil was transported to Sundance Services (NMOCD Permit No. NM1-3-0) for disposal. Copies of Waste Manifests are provided in Appendix C.

The Site will be reseeded in accordance with the land owner at a time more conducive to germination.

SITE CLOSURE REQUEST

Remediation activities were conducted in accordance with the NMOCD-approved *Remediation Summary and Proposed Closure Strategy*. Impacted soil was excavated and transported to and NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride concentrations were below the NMOCD RRAL and/or *Closure Criteria for Soils beneath BGTs, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed* for sites where the depth below the bottom of pit to groundwater is greater than 100 ft.

Based on laboratory analytical results and field activities conducted to date, TRC recommends ETC provide copies of this *Remediation Summary and Soil Closure Request* to the NMOCD and request closure status to the Field Scrubber Dump Tank Site.

LIMITATIONS

TRC has prepared this *Remediation Summary and Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of ETC Field Services, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or ETC Field Services, LLC.

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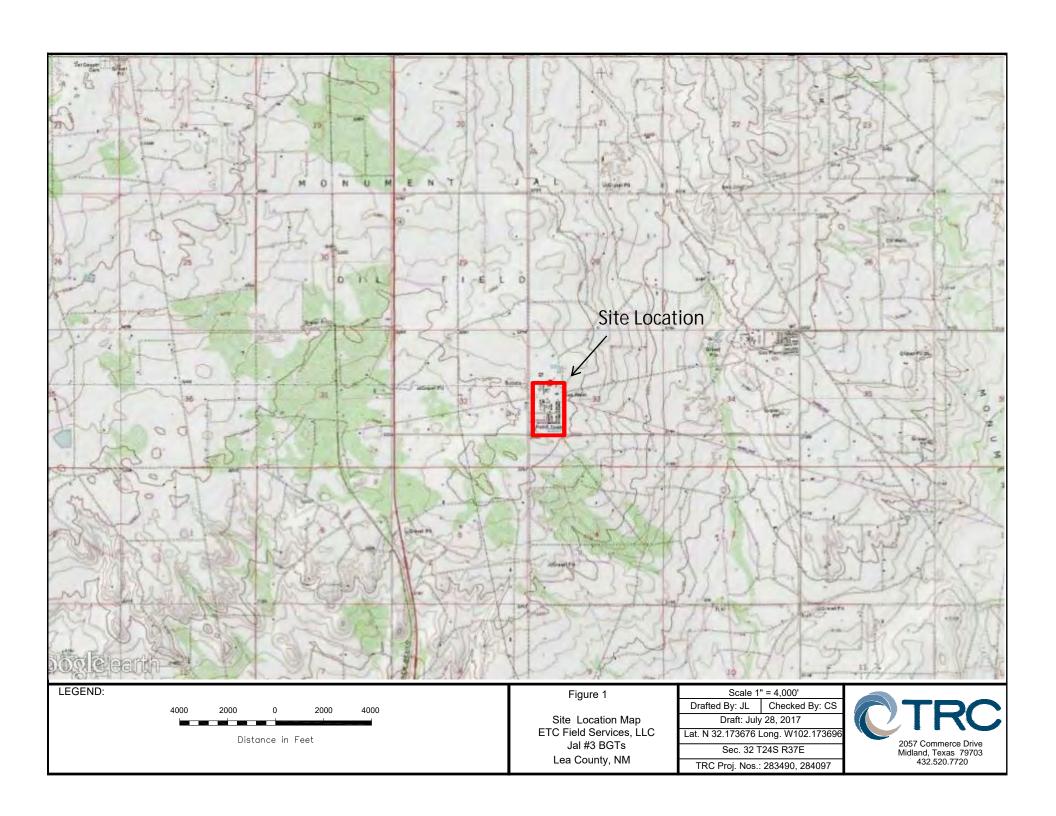
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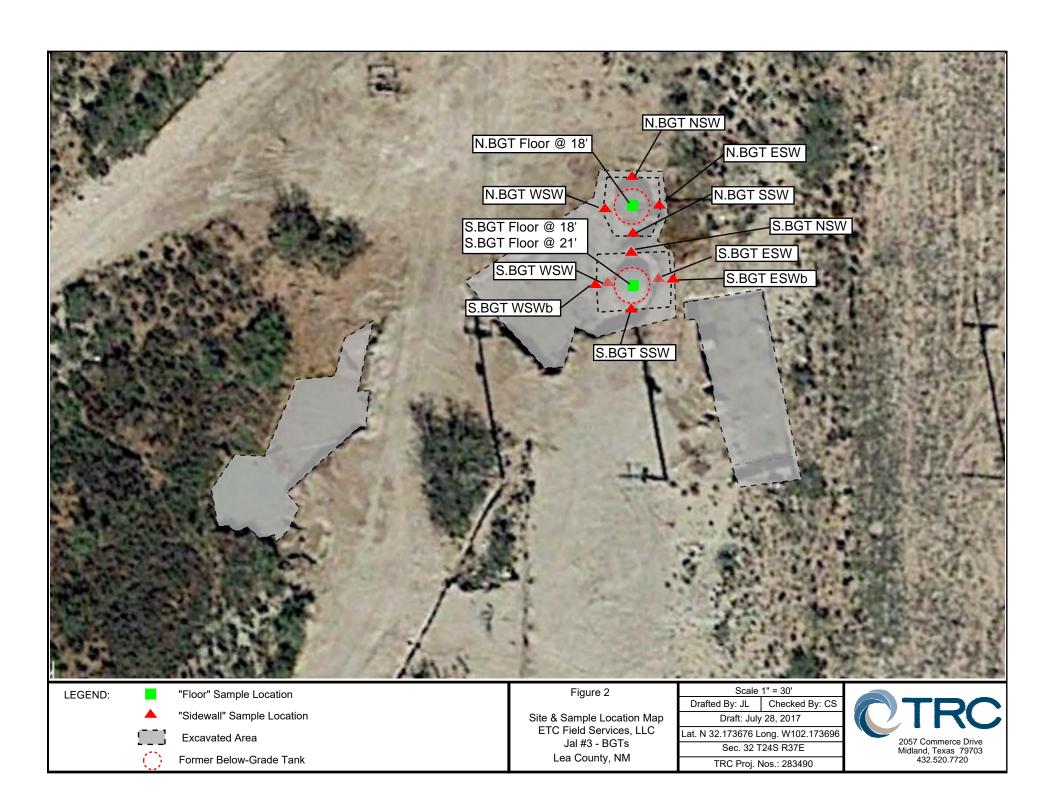
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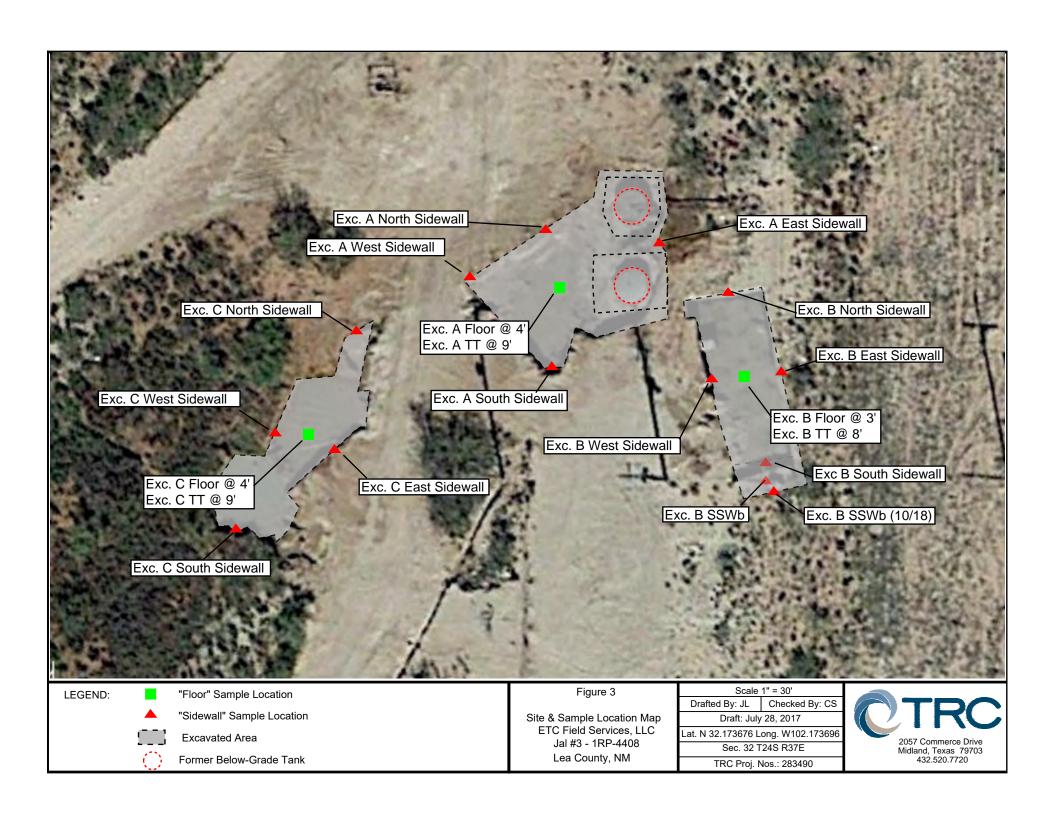


TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH, AND CHLORIDE IN SOIL JAL #3 FIELD SCRUBBER DUMP TANK - BELOW-GRADE TANKS ETC FIELD SERVICES, LLC LEA COUNTY, NM

					Metho	ds: EPA SW	846-8021B, 5	030		Methods:				Method:
SAMPLE LOCATION	SAMPLE	SAMPLE DEPTH	STATUS	BENZENE	TOLUENE	ETHYL-	m,p,	0-	TOTAL	AL EPA SW 846-80				E300
SAMPLE LOCATION	DATE	(inches)	STATUS	(mg/Kg)	(mg/Kg)	BENZENE (mg/Kg)	XYLENE (mg/Kg)	XYLENE (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	TOTAL TPH (mg/Kg)	CHLORIDE (mg/Kg)
N. BGT Floor @ 18'	8/28/2017	18'	In-Situ	< 0.00199	0.0223	0.0773	0.0812	0.160	0.3408	26.5	345	110	481.5	88.9
S. BGT Floor @ 18'	8/28/2017	18'	Excavated	< 0.202	0.443	0.661	4.46	2.03	7.594	264	979	249	1,492	105
S. BGT Floor @ 21'	10/18/2017	21'	In-Situ	-	-	-	ı	-	1	272	390	<125	662	-
Closure Criteria for So with Closed-Loop System		, ,		10	-	-	-	-	50	1,	000	-	2,500	20,000

TABLE 2

CONCENTRATIONS OF BENZENE, BTEX, TPH, AND CHLORIDE IN SOIL JAL #3 FIELD SCRUBBER DUMP TANK - RELEASE ETC FIELD SERVICES, LLC LEA COUNTY, NM

					Metho	ds: EPA SW	846-8021B, 5	030			Met	thods:		Method:
SAMPLE	SAMPLE	SAMPLE DEPTH	STATUS	BENZENE	TOLUENE	ETHYL-	m,p,	0-	TOTAL		EPA SW	846-8015M	1	E300
LOCATION	DATE	(inches)		(mg/Kg)	(mg/Kg)	BENZENE (mg/Kg)	XYLENE (mg/Kg)	XYLENE (mg/Kg)	BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	ORO (mg/Kg)	TOTAL TPH (mg/Kg)	CHLORIDE (mg/Kg)
Exc. A Floor @ 4'	7/18/2017	4'	In-Situ	11.5	7.71	4.30	12.1	2.19	37.8	1,420	1,190	<250	2,610	81.3
Exc. A North Sidewall	7/18/2017	3'	In-Situ	< 0.0194	0.0426	0.0233	0.0523	< 0.0194	0.1182	<3.88	516	<250	516	222
Exc. A East Sidewall	7/18/2017	3'	In-Situ	< 0.0180	0.0180	0.242	< 0.0359	< 0.0180	0.260	19.9	591	<250	611	44.8
Exc. A South Sidewall	7/18/2017	3'	In-Situ	0.0916	0.311	0.0916	0.562	0.0916	1.1478	<7.55	4,250	584	4,834	52.9
Exc. A West Sidewall	7/18/2017	3'	In-Situ	< 0.0197	< 0.0197	< 0.0197	< 0.0394	< 0.0197	< 0.0394	<3.94	<25.0	<25.0	<25.0	<25.0
Exc. B Floor @ 3'	7/18/2017	3'	In-Situ	< 0.164	1.63	< 0.112	16.4	2.90	20.93	1,660	<250	317	1,977	44.7
Exc. B North Sidewall	7/18/2017	2'	In-Situ	< 0.00832	0.0497	1.18	< 0.00628	0.333	1.5627	89.7	3,700	571	4,360.7	306
Exc. B East Sidewall	7/18/2017	2'	In-Situ	< 0.0392	0.0607	< 0.0267	0.321	< 0.0295	0.382	27.1	2,820	566	3,413.1	<25.0
Exc. B South Sidewall	7/18/2017	2'	Excavated	<0.0425	0.103	1.67	<0.0320	< 0.0320	1.773	95.1	4,700	725	5,520.1	103
Exc. B West Sidewall	7/18/2017	2'	In-Situ	< 0.0167	0.0222	0.251	< 0.0126	< 0.0126	0.2732	12.5	3,690	762	4,464.5	65.7
Exc. C Floor @ 4'	7/18/2017	4'	In-Situ	< 0.0195	0.0293	0.459	< 0.0391	0.135	0.6233	30.3	316	49.2	395,5	<25.0
Exc. C Floor (a) 4 Exc. C North Sidewall	7/18/2017	3'	In-Situ In-Situ	<0.0195	0.0293	0.439	<0.0391	< 0.0196	0.0233	7.06	4390	399	4,796.06	<25.0
Exc. C North Sidewall Exc. C East Sidewall	7/18/2017	3'	In-Situ In-Situ	<0.0196	0.0190	1.64	<0.0393	< 0.0196	1.7180	181	284	48.7	513.7	<25.0
Exc. C South Sidewall	7/18/2017	3'	In-Situ In-Situ	<0.0193	< 0.0780	0.0495	< 0.0390	<0.0193	0.0495	<3.67	49.2	25.3	74.5	<25.0
Exc. C South Sidewall	7/18/2017	3'	In-Situ In-Situ	<0.0183	<0.0183	0.0493	<0.0307	<0.0183	0.0493	<3.07	966	23.5	1,202	<25.0
Exc. C West Sidewall	//16/201/	3	III-SIIU	<0.0198	<0.0198	0.0310	<0.0397	\0.0196	0.0310	\3.91	900	230	1,202	~23.0
Exc. A TT @ 9'	8/23/2017	9'	In-Situ	0.00216	< 0.00202	0.00210	0.00747	0.00585	0.01758	40.3	779	161	980.3	140
Exc. B TT @ 8'	8/23/2017	8'	In-Situ	< 0.00210	< 0.00202	< 0.00952	<0.0190	< 0.00952	< 0.01750	<15.0	<15.0	<15.0	<15.0	207
Exc. B SSWb	8/23/2017	2.5'	Excavated	< 0.00201	0.00848	< 0.00201	<0.00402	< 0.00201	0.00848	36.4	9,230	2,920	12,186.4	58.7
Exc. C TT @ 9'	8/23/2017	9'	In-Situ	< 0.00201	<0.00202	< 0.00201	< 0.00404	< 0.00201	< 0.00404	<15.0	<15.0	<15.0	<15.0	33.1
		-												
N. BGT NSW	8/28/2017	13'	In-Situ	< 0.00200	< 0.00200	< 0.00200	< 0.00399	< 0.00200	< 0.00399	<15.0	<15.0	<15.0	<15.0	21.7
N. BGT ESW	8/28/2017	13'	In-Situ	< 0.00201	< 0.00201	< 0.00201	0.00404	0.00596	0.01000	<15.0	190	53.5	243.5	61.4
N. BGT SSW	8/28/2017	13'	In-Situ	< 0.0502	0.584	1.02	4.48	3.58	9.664	492	1,130	310	1,932	104
N. BGT WSW	8/28/2017	13'	In-Situ	< 0.00202	< 0.00202	< 0.00202	< 0.00403	< 0.00202	< 0.00403	<15.0	<15.0	<15.0	<15.0	24.1
S. BGT NSW	8/28/2017	13'	In-Situ	< 0.100	4.33	6.80	23.7	5.30	40.13	1,290	3,160	486	4,936	313
S. BGT ESW	8/28/2017	13'	Excavated	15.6	38.6	20.4	50.8	9.64	135.04	2,300	15,400	2,500	20,200	95.6
S. BGT SSW	8/28/2017	13'	In-Situ	< 0.0499	< 0.0499	1.04	5.78	2.96	9.78	335	577	65.5	977.5	62.2
S. BGT WSW	8/28/2017	13'	Excavated	< 0.101	1.90	3.23	33.9	7.05	46.08	2,540	2,220	671	5,431	22.5
Exc. B SSWb	10/18/2017	2.5'	In-Situ	-	-	-	-	-	-	197	969	<250	1,166	-
S. BGT ESWb	10/18/2017	15'	In-Situ	< 0.196	2.85	2.65	9.4	19	14.99	687	3,140	396	4,223	-
S. BGT WSWb	10/18/2017	15'	In-Situ	-	-	-			-	61.0	542	<250	603	-
NMOCD Recomme	nded Remed	diation Actio	on Level	10	-	-	-	-	50	-	-	-	5,000	600



Certificate of Analysis Summary 557913

TRC Solutions, Inc, Midland, TX

Project Id:

Project Name: Jal #3 West Exc A

Date Received in Lab: Tue Jul-18-17 04:40 pm

Report Date: 27-JUL-17 **Project Manager:** Kelsey Brooks

Contact: Joel Lowry
Project Location:

	Lab Id:	557913-0	001	557913-0	002	557913-0	003	557913-0	004	557913-0	005	
A a william D a manufact	Field Id:	Floor	4'	North Side	ewall	East Side	wall	South Side	ewall	West Side	wall	
Analysis Requested	Depth:	4 ft		3 ft		3 ft		3 ft		3 ft		
	Matrix:	SOIL	,	SOIL	,	SOIL		SOIL		SOIL		
	Sampled:	Jul-18-17	10:05	Jul-18-17	10:10	Jul-18-17 10:15		Jul-18-17 10:20		Jul-18-17	10:25	
BTEX by EPA 8021B	Extracted:	Jul-20-17	12:30	Jul-20-17	12:30	Jul-20-17 1	2:30	Jul-20-17 1	12:30	Jul-20-17 1	2:30	
	Analyzed:	Jul-21-17	Jul-21-17 06:31		21:36	Jul-21-17 (00:44	Jul-21-17 (06:58	Jul-20-17 1	9:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		11.5	0.0388	< 0.0194	0.0194	< 0.0180	0.0180	0.0916	0.0398	< 0.0197	0.0197	
Toluene		7.71	0.0388	0.0426	0.0194	0.0180	0.0180	0.311	0.0398	< 0.0197	0.0197	
Ethylbenzene		4.30	0.0388	0.0233	0.0194	0.242	0.0180	0.0916	0.0398	< 0.0197	0.0197	
m,p-Xylenes		12.1	0.0775	0.0523	0.0388	< 0.0359	0.0359	0.562	0.0797	< 0.0394	0.0394	
o-Xylene		2.19	0.0388	< 0.0194	0.0194	< 0.0180	0.0180	0.0916	0.0398	< 0.0197	0.0197	
Total Xylenes		14.3	0.0388	0.0523	0.0194	< 0.0180	0.0180	0.654	0.0398	< 0.0197	0.0197	
Total BTEX		37.8	0.0388	0.118	0.0194	0.260	0.0180	1.15	0.0398	< 0.0197	0.0197	
Chloride by EPA 300	Extracted:	Jul-24-17	12:00	Jul-24-17	12:00	Jul-24-17 1	2:00	Jul-24-17 1	12:00	Jul-21-17 1	3:00	
	Analyzed:	Jul-24-17	17:10	Jul-24-17	Jul-24-17 17:22 Jul-24-1		Jul-24-17 17:34		17:47	Jul-24-17 1	2:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		81.3	25.0	222	25.0	44.8	25.0	52.9	25.0	<25.0	25.0	
DRO-ORO By SW8015B	Extracted:	Jul-26-17	16:15	Jul-26-17	16:15	Jul-26-17 1	6:15	Jul-26-17 1	16:15	Jul-26-17 1	6:15	
	Analyzed:	Jul-27-17	06:56	Jul-27-17 (07:29	Jul-27-17 (08:02	Jul-27-17 (08:35	Jul-27-17 (9:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Diesel Range Organics (DRO)	1	1190	250	516	250	591	250	4250	250	<25.0	25.0	
Oil Range Hydrocarbons (ORO)		<250	250	<250	250	<250	250	584	250	<25.0	25.0	
TPH GRO by EPA 8015 Mod.	Extracted:	Jul-21-17	14:00	Jul-20-17	12:30	Jul-20-17 1	2:30	Jul-21-17 1	14:00	Jul-20-17 1	2:30	
	Analyzed:	Jul-22-17	03:57	Jul-20-17	21:36	Jul-21-17 (00:44	Jul-22-17 ()4:25	Jul-20-17 1	9:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
TPH-GRO	·	1420	386	<3.88	3.88	19.9	3.59	<7.55	7.55	<3.94	3.94	

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

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

Kelsey Brooks Project Manager

Knis Roah

Analytical Report 557913

for TRC Solutions, Inc

Project Manager: Joel Lowry

Jal #3 West Exc A

27-JUL-17

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



27-JUL-17

Project Manager: **Joel Lowry TRC Solutions, Inc**2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): 557913

Jal #3 West Exc A Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 557913. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 557913 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,

Kelsey Brooks

Knus Hoah

Project Manager

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

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Sample Cross Reference 557913

$TRC\ Solutions, Inc,\ Midland, TX$

Jal #3 West Exc A

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor 4'	S	07-18-17 10:05	- 4 ft	557913-001
North Sidewall	S	07-18-17 10:10	- 3 ft	557913-002
East Sidewall	S	07-18-17 10:15	- 3 ft	557913-003
South Sidewall	S	07-18-17 10:20	- 3 ft	557913-004
West Sidewall	S	07-18-17 10:25	- 3 ft	557913-005

XENCO

CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Jal #3 West Exc A

Project ID: Report Date: 27-JUL-17
Work Order Number(s): 557913 Date Received: 07/18/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3022806 BTEX by EPA 8021B

Surrogate a,a,a-Trifluorotoluene recovered above QC limits. Matrix interferences is suspected; data

confirmed by re-analysis.

Samples affected are: 557913-004,557913-001.

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

Batch: LBA-3022966 TPH GRO by EPA 8015 Mod.

Sample 557913-004 was diluted due to hydrocarbons beyond xylene.

Batch: LBA-3023296 DRO-ORO By SW8015B

Surrogate Tricosane, Surrogate n-Triacontane recovered above QC limits. Matrix interferences is

suspected; data confirmed by re-analysis.

Samples affected are: 557913-001,557913-002,557913-003,557913-004.

Page 5 of 21

Final 1.000



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc A

07.24.17 12.00

Date Received:07.18.17 16.40 Sample Id: Floor 4' Matrix: Soil

Date Prep:

Lab Sample Id: 557913-001 Date Collected: 07.18.17 10.05 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

Wet Weight

RNL % Moisture: Tech: RNL Basis:

Seq Number: 3023036

Analyst:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 07.24.17 17.10 81.3 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

PGM Tech:

PGM Analyst: Basis: Wet Weight Date Prep: 07.26.17 16.15

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	1190	250		mg/kg	07.27.17 06.56		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<250	250		mg/kg	07.27.17 06.56	U	10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	266	%	65-144	07.27.17 06.56	**	
n-Triacontane		638-68-6	300	%	46-152	07.27.17 06.56	**	

Prep Method: SW5030B Analytical Method: BTEX by EPA 8021B

MIT Tech:

MIT Basis: Wet Weight Analyst: 07.20.17 12.30 Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	11.5	0.0388		mg/kg	07.21.17 06.31		2
Toluene	108-88-3	7.71	0.0388		mg/kg	07.21.17 06.31		2
Ethylbenzene	100-41-4	4.30	0.0388		mg/kg	07.21.17 06.31		2
m,p-Xylenes	179601-23-1	12.1	0.0775		mg/kg	07.21.17 06.31		2
o-Xylene	95-47-6	2.19	0.0388		mg/kg	07.21.17 06.31		2
Total Xylenes	1330-20-7	14.3	0.0388		mg/kg	07.21.17 06.31		2
Total BTEX		37.8	0.0388		mg/kg	07.21.17 06.31		2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	68-120	07.21.17 06.31		
a,a,a-Trifluorotoluene		98-08-8	716	%	71-121	07.21.17 06.31	**	



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc A

Sample Id: Floor 4' Matrix: Soil Date Received:07.18.17 16.40

Lab Sample Id: 557913-001 Date Collected: 07.18.17 10.05 Sample Depth: 4 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.21.17 14.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	1420	386		mg/kg	07.22.17 03.57		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	112	%	76-123	07.22.17 03.57		
a,a,a-Trifluorotoluene	Ģ	98-08-8	84	%	69-120	07.22.17 03.57		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc A

Sample Id: North Sidewall Matrix: Soil Date Received:07.18.17 16.40

Lab Sample Id: 557913-002 Date Collected: 07.18.17 10.10 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

. . . .

% Moisture:

% Moisture:

Tech: RNL % Moisture:

Analyst: RNL Date Prep: 07.24.17 12.00

Basis: Wet Weight

Seq Number: 3023036

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 222
 25.0
 mg/kg
 07.24.17 17.22
 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM

Analyst: PGM Date Prep: 07.26.17 16.15 Basis: Wet Weight

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	516	250		mg/kg	07.27.17 07.29		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<250	250		mg/kg	07.27.17 07.29	U	10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	202	%	65-144	07.27.17 07.29	**	
n-Triacontane		638-68-6	271	%	46-152	07.27.17 07.29	**	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0194	0.0194		mg/kg	07.20.17 21.36	U	1
Toluene	108-88-3	0.0426	0.0194		mg/kg	07.20.17 21.36		1
Ethylbenzene	100-41-4	0.0233	0.0194		mg/kg	07.20.17 21.36		1
m,p-Xylenes	179601-23-1	0.0523	0.0388		mg/kg	07.20.17 21.36		1
o-Xylene	95-47-6	< 0.0194	0.0194		mg/kg	07.20.17 21.36	U	1
Total Xylenes	1330-20-7	0.0523	0.0194		mg/kg	07.20.17 21.36		1
Total BTEX		0.118	0.0194		mg/kg	07.20.17 21.36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	68-120	07.20.17 21.36		
a,a,a-Trifluorotoluene		98-08-8	114	%	71-121	07.20.17 21.36		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc A

Sample Id: North Sidewall Matrix: Soil Date Received:07.18.17 16.40

Lab Sample Id: 557913-002 Date Collected: 07.18.17 10.10 Sample Depth: 3 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.88	3.88		mg/kg	07.20.17 21.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	76-123	07.20.17 21.36		
a,a,a-Trifluorotoluene		98-08-8	112	%	69-120	07.20.17 21.36		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc A

Sample Id: East Sidewall Matrix: Soil Date Received:07.18.17 16.40

Lab Sample Id: 557913-003 Date Collected: 07.18.17 10.15 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

% Moisture:

Analyst: RNL Date Prep: 07.24.17 12.00 Basis: Wet Weight

Seq Number: 3023036

Tech:

RNL

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 44.8
 25.0
 mg/kg
 07.24.17 17.34
 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM

Analyst: PGM Date Prep: 07.26.17 16.15 Basis: Wet Weight

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	591	250		mg/kg	07.27.17 08.02		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<250	250		mg/kg	07.27.17 08.02	U	10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	204	%	65-144	07.27.17 08.02	**	
n-Triacontane		638-68-6	217	%	46-152	07.27.17 08.02	**	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0180	0.0180		mg/kg	07.21.17 00.44	U	1
Toluene	108-88-3	0.0180	0.0180		mg/kg	07.21.17 00.44		1
Ethylbenzene	100-41-4	0.242	0.0180		mg/kg	07.21.17 00.44		1
m,p-Xylenes	179601-23-1	< 0.0359	0.0359		mg/kg	07.21.17 00.44	U	1
o-Xylene	95-47-6	< 0.0180	0.0180		mg/kg	07.21.17 00.44	U	1
Total Xylenes	1330-20-7	< 0.0180	0.0180		mg/kg	07.21.17 00.44	U	1
Total BTEX		0.260	0.0180		mg/kg	07.21.17 00.44		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	68-120	07.21.17 00.44		
a,a,a-Trifluorotoluene		98-08-8	106	%	71-121	07.21.17 00.44		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc A

Sample Id: East Sidewall Matrix: Soil Date Received:07.18.17 16.40

Lab Sample Id: 557913-003 Date Collected: 07.18.17 10.15 Sample Depth: 3 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Seq Number: 3022814

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	19.9	3.59		mg/kg	07.21.17 00.44		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	87	%	76-123	07.21.17 00.44		
a,a,a-Trifluorotoluene		98-08-8	102	%	69-120	07.21.17 00.44		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc A

Sample Id: South Sidewall Matrix: Soil Date Received:07.18.17 16.40

Lab Sample Id: 557913-004 Date Collected: 07.18.17 10.20 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: RNL % Moisture:

Analyst: RNL Date Prep: 07.24.17 12.00 Basis: Wet Weight

Seq Number: 3023036

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 52.9
 25.0
 mg/kg
 07.24.17 17.47
 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 07.26.17 16.15 Basis: Wet Weight

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	4250	250		mg/kg	07.27.17 08.35		10
Oil Range Hydrocarbons (ORO)	PHCG2835	584	250		mg/kg	07.27.17 08.35		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	646	%	65-144	07.27.17 08.35	**	
n-Triacontane		638-68-6	1100	%	46-152	07.27.17 08.35	**	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0916	0.0398		mg/kg	07.21.17 06.58		2
Toluene	108-88-3	0.311	0.0398		mg/kg	07.21.17 06.58		2
Ethylbenzene	100-41-4	0.0916	0.0398		mg/kg	07.21.17 06.58		2
m,p-Xylenes	179601-23-1	0.562	0.0797		mg/kg	07.21.17 06.58		2
o-Xylene	95-47-6	0.0916	0.0398		mg/kg	07.21.17 06.58		2
Total Xylenes	1330-20-7	0.654	0.0398		mg/kg	07.21.17 06.58		2
Total BTEX		1.15	0.0398		mg/kg	07.21.17 06.58		2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	99	%	68-120	07.21.17 06.58		
a,a,a-Trifluorotoluene		98-08-8	131	%	71-121	07.21.17 06.58	**	



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc A

Sample Id: South Sidewall Matrix: Soil Date Received:07.18.17 16.40

Lab Sample Id: 557913-004 Date Collected: 07.18.17 10.20 Sample Depth: 3 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.21.17 14.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<7.55	7.55		mg/kg	07.22.17 04.25	U	2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	80	%	76-123	07.22.17 04.25		
a,a,a-Trifluorotoluene		98-08-8	89	%	69-120	07.22.17 04.25		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc A

Sample Id: West Sidewall Matrix: Soil Date Received:07.18.17 16.40

Lab Sample Id: 557913-005 Date Collected: 07.18.17 10.25 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: RNL % Moisture:

Analyst: RNL Date Prep: 07.21.17 13.00 Basis: Wet Weight

Seq Number: 3023006

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 <25.0 07.24.17 12.33 U 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Date Prep: 07.26.17 16.15 Basis: Wet Weight

Seq Number: 3023296

Analyst:

PGM

Result Cas Number RL**Parameter** Units **Analysis Date** Flag Dil Diesel Range Organics (DRO) C10C28DRO <25.0 25.0 07.27.17 09.08 U mg/kg 1 07.27.17 09.08 Oil Range Hydrocarbons (ORO) PHCG2835 <25.0 25.0 mg/kg U 1 0/0 Surrogate Cas Number Units Limits **Analysis Date** Flag Recovery Tricosane 638-67-5 65-144 07.27.17 09.08 106 % 46-152 07.27.17 09.08 n-Triacontane 638-68-6 117 %

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0197	0.0197		mg/kg	07.20.17 19.49	U	1
Toluene	108-88-3	< 0.0197	0.0197		mg/kg	07.20.17 19.49	U	1
Ethylbenzene	100-41-4	< 0.0197	0.0197		mg/kg	07.20.17 19.49	U	1
m,p-Xylenes	179601-23-1	< 0.0394	0.0394		mg/kg	07.20.17 19.49	U	1
o-Xylene	95-47-6	< 0.0197	0.0197		mg/kg	07.20.17 19.49	U	1
Total Xylenes	1330-20-7	< 0.0197	0.0197		mg/kg	07.20.17 19.49	U	1
Total BTEX		< 0.0197	0.0197		mg/kg	07.20.17 19.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	68-120	07.20.17 19.49		
a,a,a-Trifluorotoluene		98-08-8	112	%	71-121	07.20.17 19.49		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc A

Sample Id: West Sidewall Matrix: Soil Date Received:07.18.17 16.40

Lab Sample Id: 557913-005 Date Collected: 07.18.17 10.25 Sample Depth: 3 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.94	3.94		mg/kg	07.20.17 19.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	76-123	07.20.17 19.49		
a,a,a-Trifluorotoluene		98-08-8	111	%	69-120	07.20.17 19.49		



Flagging Criteria

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

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

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

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 557913

TRC Solutions, Inc

Jal #3 West Exc A

Analytical Method: Chloride by EPA 300

Seq Number:

3023006 Matrix: Solid

LCS Sample Id: 728108-1-BKS MB Sample Id: 728108-1-BLK

E300P Prep Method:

Date Prep: 07.21.17 LCSD Sample Id: 728108-1-BSD

E300P

E300P

E300P

Prep Method:

RPD MB Spike LCS LCS Limits %RPD LCSD LCSD Units Analysis Flag **Parameter** Result Amount Result Limit Date %Rec %Rec Result

Chloride 90-110 20 07.24.17 08:57 <25.0 250 249 100 258 103 4 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: 3023036 Seq Number: Matrix: Solid Date Prep: 07.24.17

LCS Sample Id: 728123-1-BKS LCSD Sample Id: 728123-1-BSD MB Sample Id: 728123-1-BLK

MB Spike LCS LCS Limits %RPD RPD Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Limit Date Result %Rec

Chloride <25.0 250 245 98 270 108 90-110 10 20 mg/kg 07.24.17 15:07

Analytical Method: Chloride by EPA 300

Prep Method: Seq Number: 3023006 Matrix: Soil Date Prep: 07.21.17

557905-001 S MS Sample Id: MSD Sample Id: 557905-001 SD Parent Sample Id: 557905-001

MS RPD Parent Spike MS MSD **MSD** Limits %RPD Units **Analysis** Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec

20 07.24.17 09:34 Chloride <25.0 250 273 109 267 107 80-120 2 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3023006 Matrix: Soil Date Prep: 07.21.17

MS Sample Id: 557913-005 S MSD Sample Id: 557913-005 SD Parent Sample Id: 557913-005

RPD MS MS %RPD Parent Spike MSD MSD Limits Units Analysis Flag **Parameter** Result Limit Result Amount %Rec Date Result %Rec 07.24.17 12:45 Chloride <25.0 250 261 104 265 106 80-120 2 20 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3023036 Matrix: Soil 07.24.17 Date Prep:

MS Sample Id: 558233-001 S MSD Sample Id: 558233-001 SD Parent Sample Id: 558233-001

Parent Spike MS MS MSD Limits %RPD **RPD** Units Analysis **MSD** Flag Parameter Result Limit Date Result Amount %Rec Result %Rec Chloride <25.0 250 331 132 346 138 80-120 4 20 07.24.17 16:44 X mg/kg



QC Summary 557913

TRC Solutions, Inc

Jal #3 West Exc A

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Seq Number: 3023296 Matrix: Solid Date Prep: 07.26.17

MB Sample Id: 728282-1-BLK LCS Sample Id: 728282-1-BKS LCSD Sample Id: 728282-1-BSD

LCS %RPD MB Spike LCS Limits **RPD** LCSD LCSD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec

Diesel Range Organics (DRO) <25.0 100 103 103 88.6 89 63-139 15 20 mg/kg 07.26.17 21:11

LCS LCS Limits MB MB LCSD LCSD Units Analysis **Surrogate** Flag Flag %Rec %Rec Flag Date %Rec Tricosane 112 115 102 65-144 % 07.26.17 21:11 n-Triacontane 127 124 114 46-152 % 07.26.17 21:11

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Seq Number: 3022806 Matrix: Solid Date Prep: 07.20.17

MB Sample Id: 727950-1-BLK LCS Sample Id: 727950-1-BKS LCSD Sample Id: 727950-1-BSD

Spike MB LCS LCS Limits %RPD **RPD** Units LCSD Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 07.20.17 16:37 Benzene < 0.0200 2.00 1.88 94 1.87 94 55-120 1 20 mg/kg 2.00 1.88 94 77-120 20 07.20.17 16:37 Toluene < 0.0200 1.91 96 2 mg/kg < 0.0200 2.00 1.88 94 1.87 94 77-120 20 07.20.17 16:37 Ethylbenzene 1 mg/kg 07.20.17 16:37 78-120 m,p-Xylenes 4.00 3.77 94 3.77 94 0 20 < 0.0400 mg/kg 07.20.17 16:37 o-Xylene < 0.0200 2.00 1.87 94 1.85 93 78-120 20 mg/kg

Flag

Analysis MB MB LCS LCS LCSD LCSD Limits Units **Surrogate** Flag Flag %Rec Flag Date %Rec %Rec 4-Bromofluorobenzene 97 96 96 68-120 % 07.20.17 16:37 a,a,a-Trifluorotoluene 07.20.17 16:37 97 93 95 71-121 %

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Nation: Sail

 Seq Number:
 3022806
 Matrix:
 Soil
 Date Prep:
 07.20.17

 Parent Sample Id:
 557913-005
 MS Sample Id:
 557913-005 S
 MSD Sample Id:
 557913-005 SD

RPD %RPD Parent Spike MS MS Limits Units Analysis **MSD MSD** Flag **Parameter** Result Limit %Rec Date Result Amount Result %Rec < 0.0194 77 25 07.20.17 20:16 Benzene 1.94 1.50 1.44 76 54-120 4 mg/kg 57-120 mg/kg 07.20.17 20:16 Toluene < 0.0194 1.94 85 1.57 83 5 25 1.65 Ethylbenzene < 0.0194 1.94 1.72 89 1.64 87 58-131 5 25 mg/kg 07.20.17 20:16 3.29 07.20.17 20:16 m,p-Xylenes < 0.0388 3.88 3.45 89 87 62-124 5 25 mg/kg < 0.0194 1.94 1.70 25 07.20.17 20:16 o-Xylene 88 1.63 86 62-124 4 mg/kg

MS MS MSD **MSD** Limits Units Analysis **Surrogate** Flag %Rec Flag Date %Rec 07.20.17 20:16 100 4-Bromofluorobenzene 102 68-120 % a,a,a-Trifluorotoluene 102 103 71-121 % 07.20.17 20:16



QC Summary 557913

TRC Solutions, Inc

Jal #3 West Exc A

				Ja	1 #3 Wes	t Exc A						
Analytical Method: Seq Number: MB Sample Id:	TPH GRO by EPA 3022814 727951-1-BLK	8015 Mod.		Matrix:	Solid 727951-1	-BKS			rep Meth Date Pr D Sampl	rep: 07.2	5030B 20.17 951-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.00	20.0	17.6	88		107	35-129	19	20	mg/kg	07.20.17 17:32	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Rec			imits	Units	Analysis Date	
4-Bromofluorobenzene a,a,a-Trifluorotoluene	88 105			93 .02		103 112			5-123 9-120	% %	07.20.17 17:32 07.20.17 17:32	
Analytical Method: Seq Number: MB Sample Id:	3022966 728047-1-BLK		LCS Sar	-	728047-1			LCS	-	rep: 07.2 e Id: 728	5030B 21.17 047-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.00	20.0	17.8	89	19.0	95	35-129	7	20	mg/kg	07.22.17 00:24	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Rec			imits	Units	Analysis Date	
4-Bromofluorobenzene a,a,a-Trifluorotoluene	84 100			87 90		92 92			5-123 9-120	% %	07.22.17 00:24 07.22.17 00:24	
Analytical Method: Seq Number: Parent Sample Id:	TPH GRO by EPA 3022814 557913-002	8015 Mod.		Matrix: nple Id:	Soil 557913-0	02 S			rep Meth Date Pr D Sampl	rep: 07.2	5030B 20.17 913-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<3.76	18.8	19.0	101	18.5	97	35-129	3	20	mg/kg	07.20.17 22:03	
Surrogate				AS Rec	MS Flag	MSD %Rec			imits	Units	Analysis Date	
4-Bromofluorobenzene a,a,a-Trifluorotoluene				99 99		106 103			5-123 9-120	% %	07.20.17 22:03 07.20.17 22:03	
Analytical Method: Seq Number: Parent Sample Id:	TPH GRO by EPA 3022966 557913-004	8015 Mod.		Matrix: nple Id:	Soil 557913-0	04 S			rep Meth Date Pr D Sampl	rep: 07.2	5030B 21.17 913-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<6.99	35.0	16.4	47		40	35-129	16	20	mg/kg	07.22.17 04:52	
Surrogate				AS Rec	MS Flag	MSD %Rec			imits	Units	Analysis Date	
4-Bromofluorobenzene a,a,a-Trifluorotoluene				89 84		89 86			5-123 9-120	% %	07.22.17 04:52 07.22.17 04:52	

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	www.xenco.com	venco duote #	Xenco Job # C 70/2
			11/00
Client / Reporting Information	Project Information	Analytical Information	nn Matrix Codes
Company Ame / Branch:	Project Name/Number:		
Sommer Contract	Decine one		W = Water
3	Jed #3 West Exc. A	17,	S - Soult-Set/Solid GW = Ground Water DW = Drinking Waster
Email: UNG TRESOUTIONS PHYMONO:		7	P = Producting state
5.5	ETC 010 0000 Slacko	W	SL - Sludge water
Project COUR	() () () () () () () () () () () () () (Wile Wipe
Samplers's Name:	NUMBBer:	108	WW = Waste Water A = Air
	Collection Number of preserved horities		
No. Field ID / Point of Collection Sample	b to	Ho	
Klass Collins	Date Time Matrix bottles TO Acets OP Ac		
7			Field Comments
2	01:01		
3 East Sidewall 3	51.01		85
4 South Side Wall			83
5 West Sidewall			000
	\$ 52:01		O 2
a			
0			
10			
Turnaround Time (Business days)	Data Deliverable Information		
Same Day TAT 5 Day TAT		Notes:	
	Level II Std QC Level IV (Full Data Pkg /raw data)	ata)	
CY	Level III Std QC+ Forms TRRP Level IV		
2 Day EMERGENCY Contract TAT	Level 3 (CLP Forms)		
3 Day EMERGENCY	Level II Report with TRRP checklist		
TAT Starts Day received by Lab is received by Lab is			
מבת הא דמה, וו	I MENTER DEL OMI CARIL SHEET	FED-EX / UPS: Tracking #	racking #
Relinquished by Sampler:	Date Time: Received By:		
5	Kelinquished By:	ite Time:	Received By:
3	Received By: Relinquished By:	Date Time: Rece	2 Received By:
Relinquished by:	Neterined By.	4	
5	1.11	Preserved where applicable	On Ice Cooler Temp. Therms Corr Easter

15 TH MIDS 11 A STATE AND STATE AND



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc

Date/ Time Received: 07/18/2017 04:40:00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 557913

Temperature Measuring device used :

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		4.9
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when reline	quished/ received?	Yes
#12 Chain of Custody agrees with sample	le label(s)?	Yes
#13 Container label(s) legible and intact	?	Yes
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?		Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicat	ed test(s)?	Yes
#19 All samples received within hold time	e?	Yes
#20 Subcontract of sample(s)?		No
#21 VOC samples have zero headspace	?	N/A
* Must be completed for after-hours de		the refrigerator
Analyst:	PH Device/Lot#:	
Checklist completed by: Checklist reviewed by:	Drenda Ward Brenda Ward	Date: 07/19/2017
Checklist reviewed by:	Mms Hoah Kelsey Brooks	Date: 07/19/2017



Certificate of Analysis Summary 557911

TRC Solutions, Inc, Midland, TX

Project Name: Jal #3 West Exc B

Contact: Joel Lowry

Project Location:

Project Id:

Date Received in Lab: Tue Jul-18-17 05:45 pm

Report Date: 27-JUL-17 **Project Manager:** Kelsey Brooks

	Lab Id:	557911-0	001	557911-0	002	557911-0	003	557911-0	004	557911-0	005	
A I D I	Field Id:	Floor @	3'	North Side	ewall	East Side	wall	South Side	ewall	West Side	wall	
Analysis Requested	Depth:	3 ft		2 ft		2 ft		2 ft		2 ft		
	Matrix:	SOIL		SOIL	,	SOIL		SOIL		SOIL		
	Sampled:	Jul-17-17 1	2:00	Jul-17-17	12:05	Jul-17-17 1	12:10	Jul-17-17	12:15	Jul-17-17	12:20	
BTEX by EPA 8021B	Extracted:	Jul-20-17	12:30	Jul-20-17	12:30	Jul-20-17 1	2:30	Jul-20-17 1	2:30	Jul-20-17	12:30	
	Analyzed:	Jul-21-17 (01:11	Jul-21-17 (06:04	Jul-21-17 (01:38	Jul-21-17 (02:04	Jul-21-17 ()2:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.164	0.362	< 0.00832	0.0184	< 0.0392	0.0867	< 0.0425	0.0940	< 0.0167	0.0370	
Toluene		1.63	0.362	0.0497	0.0184	0.0607 J	0.0867	0.103	0.0940	0.0222 J	0.0370	
Ethylbenzene		< 0.112	0.362	1.18	0.0184	< 0.0267	0.0867	1.67	0.0940	0.251	0.0370	
m,p-Xylenes		16.4	0.725	< 0.00628	0.0368	0.321	0.173	< 0.0320	0.188	< 0.0126	0.0739	
o-Xylene		2.90	0.362	0.333	0.0184	< 0.0295	0.0867	< 0.0320	0.0940	< 0.0126	0.0370	
Xylenes, Total		19.3	0.362	0.333	0.0184	0.321	0.0867	< 0.0940	0.0940	< 0.0370	0.0370	
Total BTEX		20.9	0.362	1.56	0.0184	0.382	0.0867	1.77	0.0940	0.273	0.0370	
Chloride by EPA 300	Extracted:	Jul-21-17	13:00	Jul-21-17	13:00	Jul-21-17 1	3:00	Jul-21-17 1	3:00	Jul-21-17	13:00	
	Analyzed:	Jul-24-17	13:10	Jul-24-17	13:22	Jul-24-17 1	3:35	Jul-24-17 1	3:47	Jul-24-17	14:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		44.7	25.0	306	25.0	<25.0	25.0	103	25.0	65.7	25.0	
DRO-ORO By SW8015B	Extracted:	Jul-26-17	16:15	Jul-26-17	16:15	Jul-26-17 1	6:15	Jul-26-17 1	6:15	Jul-26-17	16:15	
	Analyzed:	Jul-27-17 (04:10	Jul-27-17 (04:43	Jul-27-17 ()5:17	Jul-27-17 (5:50	Jul-27-17 (06:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Diesel Range Organics (DRO)		<250	250	3700	250	2820	250	4700	250	3690	250	
Oil Range Hydrocarbons (ORO)		317	250	571	250	566	250	725	250	762	250	
TPH GRO by EPA 8015 Mod.	Extracted:	Jul-21-17	14:00	Jul-21-17	14:00	Jul-20-17 1	2:30	Jul-20-17 1	2:30	Jul-20-17	12:30	
	Analyzed:	Jul-22-17 (03:04	Jul-22-17 (03:30	Jul-21-17 (1:38	Jul-21-17 (02:04	Jul-21-17 (02:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
TPH-GRO		1660	200	89.7	19.6	27.1	17.3	95.1	18.8	12.5	7.39	

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

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

Kelsey Brooks Project Manager

Knis Roah

Analytical Report 557911

for TRC Solutions, Inc

Project Manager: Joel Lowry

Jal #3 West Exc B

27-JUL-17

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



27-JUL-17

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 557911

Jal #3 West Exc B
Project Address:

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 557911. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 557911 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,

Kelsey Brooks

Knus Hoah

Project Manager

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

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Sample Cross Reference 557911

$TRC\ Solutions, Inc,\ Midland, TX$

Jal #3 West Exc B

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor @ 3'	S	07-17-17 12:00	- 3 ft	557911-001
North Sidewall	S	07-17-17 12:05	- 2 ft	557911-002
East Sidewall	S	07-17-17 12:10	- 2 ft	557911-003
South Sidewall	S	07-17-17 12:15	- 2 ft	557911-004
West Sidewall	S	07-17-17 12:20	- 2 ft	557911-005

XENCO

CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Jal #3 West Exc B

Project ID: Report Date: 27-JUL-17 Work Order Number(s): 557911 Date Received: 07/18/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3022806 BTEX by EPA 8021B

Samples 557911-001, 557911-003, 557911-004, and 557911-005 were diluted due to excessive

hydrocarbons beyond xylene.

Batch: LBA-3023296 DRO-ORO By SW8015B

Surrogate Tricosane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-

analysis.

Samples affected are: 557911-001.

Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by

re-analysis.

Samples affected are: 557911-001,557911-002,557911-003,557911-004,557911-005.

Surrogate Tricosane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-

analysis.

Samples affected are: 557911-002,557911-003,557911-004,557911-005.

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Final 1.000



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc B

Sample Id: Floor @ 3' Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557911-001 Date Collected: 07.17.17 12.00 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: RNL % Moisture:

Analyst: RNL Date Prep: 07.21.17 13.00 Basis: Wet Weight

Seq Number: 3023006

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 44.7
 25.0
 mg/kg
 07.24.17 13.10
 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 07.26.17 16.15 Basis: Wet Weight

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<250	250		mg/kg	07.27.17 04.10	U	10
Oil Range Hydrocarbons (ORO)	PHCG2835	317	250		mg/kg	07.27.17 04.10		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	17	%	65-144	07.27.17 04.10	***	
n-Triacontane		638-68-6	287	%	46-152	07.27.17 04.10	**	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.164	0.362	0.164	mg/kg	07.21.17 01.11	U	20
Toluene	108-88-3	1.63	0.362	0.0848	mg/kg	07.21.17 01.11		20
Ethylbenzene	100-41-4	< 0.112	0.362	0.112	mg/kg	07.21.17 01.11	U	20
m,p-Xylenes	179601-23-1	16.4	0.725	0.124	mg/kg	07.21.17 01.11		20
o-Xylene	95-47-6	2.90	0.362	0.124	mg/kg	07.21.17 01.11		20
Xylenes, Total	1330-20-7	19.3	0.362	0.124	mg/kg	07.21.17 01.11		20
Total BTEX		20.9	0.362	0.0848	mg/kg	07.21.17 01.11		20
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	68-120	07.21.17 01.11		
a,a,a-Trifluorotoluene		98-08-8	111	%	71-121	07.21.17 01.11		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc B

Sample Id: Floor @ 3' Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557911-001 Date Collected: 07.17.17 12.00 Sample Depth: 3 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.21.17 14.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	1660	200		mg/kg	07.22.17 03.04		50
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	120	%	76-123	07.22.17 03.04		
a,a,a-Trifluorotoluene	ģ	98-08-8	91	%	69-120	07.22.17 03.04		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc B

Sample Id: North Sidewall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557911-002 Date Collected: 07.17.17 12.05 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: RNL Date Prep: 07.21.17 13.00 Basis: Wet Weight

Seq Number: 3023006

Tech:

RNL

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 306
 25.0
 mg/kg
 07.24.17 13.22
 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 07.26.17 16.15 Basis: Wet Weight

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	3700	250		mg/kg	07.27.17 04.43		10
Oil Range Hydrocarbons (ORO)	PHCG2835	571	250		mg/kg	07.27.17 04.43		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	716	%	65-144	07.27.17 04.43	**	
n-Triacontane		638-68-6	467	%	46-152	07.27.17 04.43	**	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00832	0.0184	0.00832	mg/kg	07.21.17 06.04	U	1
Toluene	108-88-3	0.0497	0.0184	0.00431	mg/kg	07.21.17 06.04		1
Ethylbenzene	100-41-4	1.18	0.0184	0.00567	mg/kg	07.21.17 06.04		1
m,p-Xylenes	179601-23-1	< 0.00628	0.0368	0.00628	mg/kg	07.21.17 06.04	U	1
o-Xylene	95-47-6	0.333	0.0184	0.00628	mg/kg	07.21.17 06.04		1
Xylenes, Total	1330-20-7	0.333	0.0184	0.00628	mg/kg	07.21.17 06.04		1
Total BTEX		1.56	0.0184	0.00431	mg/kg	07.21.17 06.04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	68-120	07.21.17 06.04		
a,a,a-Trifluorotoluene		98-08-8	97	%	71-121	07.21.17 06.04		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc B

Sample Id: North Sidewall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557911-002 Date Collected: 07.17.17 12.05 Sample Depth: 2 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

MIT % Moisture:

Analyst: MIT Date Prep: 07.21.17 14.00 Basis: Wet Weight

Seq Number: 3022966

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	89.7	19.6		mg/kg	07.22.17 03.30		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	60-00-4	110	%	76-123	07.22.17 03.30		
a,a,a-Trifluorotoluene	9	8-08-8	92	%	69-120	07.22.17 03.30		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc B

Date Received:07.18.17 17.45 Sample Id: **East Sidewall** Matrix: Soil

Lab Sample Id: 557911-003 Date Collected: 07.17.17 12.10 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

RNL

Prep Method: E300P % Moisture:

% Moisture:

% Moisture:

RNL Tech:

Analyst:

Date Prep: 07.21.17 13.00

Basis: Wet Weight

Seq Number: 3023006

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 <25.0 07.24.17 13.35 U 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

PGM Tech:

PGM Analyst: Date Prep: 07.26.17 16.15

Basis: Wet Weight

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	2820	250		mg/kg	07.27.17 05.17		10
Oil Range Hydrocarbons (ORO)	PHCG2835	566	250		mg/kg	07.27.17 05.17		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	748	%	65-144	07.27.17 05.17	**	
n-Triacontane		638-68-6	610	%	46-152	07.27.17 05.17	**	

Prep Method: SW5030B Analytical Method: BTEX by EPA 8021B

MIT Tech:

MIT Basis: Wet Weight Analyst: 07.20.17 12.30 Date Prep:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0392	0.0867	0.0392	mg/kg	07.21.17 01.38	U	5
Toluene	108-88-3	0.0607	0.0867	0.0203	mg/kg	07.21.17 01.38	J	5
Ethylbenzene	100-41-4	< 0.0267	0.0867	0.0267	mg/kg	07.21.17 01.38	U	5
m,p-Xylenes	179601-23-1	0.321	0.173	0.0295	mg/kg	07.21.17 01.38		5
o-Xylene	95-47-6	< 0.0295	0.0867	0.0295	mg/kg	07.21.17 01.38	U	5
Xylenes, Total	1330-20-7	0.321	0.0867	0.0295	mg/kg	07.21.17 01.38		5
Total BTEX		0.382	0.0867	0.0203	mg/kg	07.21.17 01.38		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	98	%	68-120	07.21.17 01.38		
a,a,a-Trifluorotoluene		98-08-8	93	%	71-121	07.21.17 01.38		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc B

Sample Id: East Sidewall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557911-003 Date Collected: 07.17.17 12.10 Sample Depth: 2 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Seq Number: 3022814

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	27.1	17.3		mg/kg	07.21.17 01.38		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	86	%	76-123	07.21.17 01.38		
a,a,a-Trifluorotoluene	ç	98-08-8	94	%	69-120	07.21.17 01.38		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc B

Sample Id: South Sidewall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557911-004 Date Collected: 07.17.17 12.15 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

% Moisture:

% Moisture:

Analyst: RNL Date Prep: 07.21.17 13.00 Basis: Wet Weight

Seq Number: 3023006

Tech:

RNL

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 103
 25.0
 mg/kg
 07.24.17 13.47
 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM

Analyst: PGM Date Prep: 07.26.17 16.15 Basis: Wet Weight

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	4700	250		mg/kg	07.27.17 05.50		10
Oil Range Hydrocarbons (ORO)	PHCG2835	725	250		mg/kg	07.27.17 05.50		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	979	%	65-144	07.27.17 05.50	**	
n-Triacontane		638-68-6	821	%	46-152	07.27.17 05.50	**	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0425	0.0940	0.0425	mg/kg	07.21.17 02.04	U	5
Toluene	108-88-3	0.103	0.0940	0.0220	mg/kg	07.21.17 02.04		5
Ethylbenzene	100-41-4	1.67	0.0940	0.0289	mg/kg	07.21.17 02.04		5
m,p-Xylenes	179601-23-1	< 0.0320	0.188	0.0320	mg/kg	07.21.17 02.04	U	5
o-Xylene	95-47-6	< 0.0320	0.0940	0.0320	mg/kg	07.21.17 02.04	U	5
Xylenes, Total	1330-20-7	< 0.0940	0.0940	0.0320	mg/kg	07.21.17 02.04	U	5
Total BTEX		1.77	0.0940	0.0220	mg/kg	07.21.17 02.04		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	68-120	07.21.17 02.04		
a,a,a-Trifluorotoluene		98-08-8	101	%	71-121	07.21.17 02.04		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc B

Sample Id: South Sidewall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557911-004 Date Collected: 07.17.17 12.15 Sample Depth: 2 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	95.1	18.8		mg/kg	07.21.17 02.04		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	102	%	76-123	07.21.17 02.04		
a,a,a-Trifluorotoluene	Ģ	98-08-8	95	%	69-120	07.21.17 02.04		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc B

07.21.17 13.00

Wet Weight

% Moisture:

% Moisture:

Date Received:07.18.17 17.45 Sample Id: West Sidewall Matrix: Soil

Lab Sample Id: 557911-005 Date Collected: 07.17.17 12.20 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P Date Prep:

RNL % Moisture: Tech: RNL Basis:

Seq Number: 3023006

Analyst:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 07.24.17 14.00 65.7 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

PGM Tech:

PGM Analyst: Basis: Wet Weight Date Prep: 07.26.17 16.15

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	3690	250		mg/kg	07.27.17 06.23		10
Oil Range Hydrocarbons (ORO)	PHCG2835	762	250		mg/kg	07.27.17 06.23		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	850	%	65-144	07.27.17 06.23	**	
n-Triacontane		638-68-6	1200	%	46-152	07.27.17 06.23	**	

Prep Method: SW5030B Analytical Method: BTEX by EPA 8021B

MIT Tech:

MIT Basis: Wet Weight Analyst: 07.20.17 12.30 Date Prep:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0167	0.0370	0.0167	mg/kg	07.21.17 02.31	U	2
Toluene	108-88-3	0.0222	0.0370	0.00865	mg/kg	07.21.17 02.31	J	2
Ethylbenzene	100-41-4	0.251	0.0370	0.0114	mg/kg	07.21.17 02.31		2
m,p-Xylenes	179601-23-1	< 0.0126	0.0739	0.0126	mg/kg	07.21.17 02.31	U	2
o-Xylene	95-47-6	< 0.0126	0.0370	0.0126	mg/kg	07.21.17 02.31	U	2
Xylenes, Total	1330-20-7	< 0.0370	0.0370	0.0126	mg/kg	07.21.17 02.31	U	2
Total BTEX		0.273	0.0370	0.00865	mg/kg	07.21.17 02.31		2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	68-120	07.21.17 02.31		
a,a,a-Trifluorotoluene		98-08-8	99	%	71-121	07.21.17 02.31		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc B

Sample Id: West Sidewall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557911-005 Date Collected: 07.17.17 12.20 Sample Depth: 2 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Seq Number: 3022814

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	12.5	7.39		mg/kg	07.21.17 02.31		2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	2	460-00-4	108	%	76-123	07.21.17 02.31		
a,a,a-Trifluorotoluene	Ģ	98-08-8	97	%	69-120	07.21.17 02.31		



Flagging Criteria

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

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

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

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 557911

TRC Solutions, Inc

Jal #3 West Exc B

Analytical Method: Chloride by EPA 300

Seq Number:

Parameter

n-Triacontane

3023006 Matrix: Solid

LCS Sample Id: 728108-1-BKS MB Sample Id: 728108-1-BLK

E300P Prep Method:

Prep Method:

MSD Sample Id:

RPD

Prep Method:

46-152

Date Prep:

Limits

%RPD

Date Prep:

Date Prep: 07.21.17 LCSD Sample Id: 728108-1-BSD

E300P

E300P

MSD Sample Id: 557913-005 SD

%

07.21.17

SW8015P

07.26.17 21:11

Units

07.21.17

557905-001 SD

Analysis

Flag

Flag

Flag

RPD MB Spike LCS LCS Limits %RPD LCSD LCSD Units Analysis **Parameter** Result Result Limit Date Amount %Rec %Rec Result

Chloride 90-110 20 07.24.17 08:57 <25.0 250 249 100 258 103 4 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3023006 Matrix: Soil

MS Sample Id: 557905-001 S Parent Sample Id: 557905-001

Parent MS MS Spike **MSD** MSD

Result Amount Result %Rec Limit Date Result %Rec Chloride <25.0 250 273 109 267 107 80-120 2 20 mg/kg 07.24.17 09:34

Analytical Method: Chloride by EPA 300

Seq Number: 3023006 Matrix: Soil

557913-005 S MS Sample Id: Parent Sample Id: 557913-005

Amount

Result

127

MS RPD Parent Spike MS MSD **MSD** Limits %RPD Units Analysis **Parameter** Result Limit Date

%Rec

Result %Rec 20 07.24.17 12:45 Chloride <25.0 250 261 104 265 106 80-120 2 mg/kg

Analytical Method: DRO-ORO By SW8015B

Prep Method: Seq Number: 3023296 Matrix: Solid 07.26.17 Date Prep:

LCS Sample Id: 728282-1-BKS LCSD Sample Id: 728282-1-BSD MB Sample Id: 728282-1-BLK

RPD LCS LCS %RPD MB Spike LCSD Limits Units Analysis LCSD Flag **Parameter** Result Limit Result Amount %Rec Date Result %Rec 07.26.17 21:11 Diesel Range Organics (DRO) <25.0 100 103 103 88.6 89 63-139 15 20 mg/kg

LCS LCS MB MB LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec Flag %Rec Flag Date %Rec 07.26.17 21:11 115 102 Tricosane 112 65-144 %

124

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114



Surrogate

QC Summary 557911

TRC Solutions, Inc

Jal #3 West Exc B

Analytical Method: BTEX by EPA 8021B SW5030B Prep Method: Seq Number: 3022806 Matrix: Solid Date Prep: 07.20.17

LCS Sample Id: 727950-1-BKS MB Sample Id: 727950-1-BLK

MB

%Rec

Flag

LCSD Sample Id: 727950-1-BSD %RPD **RPD** Units **Analysis** Flag

Flag

Date

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00904	2.00	1.88	94	1.87	94	55-120	1	20	mg/kg	07.20.17 16:37
Toluene	< 0.00468	2.00	1.91	96	1.88	94	77-120	2	20	mg/kg	07.20.17 16:37
Ethylbenzene	< 0.00616	2.00	1.88	94	1.87	94	77-120	1	20	mg/kg	07.20.17 16:37
m,p-Xylenes	< 0.00682	4.00	3.77	94	3.77	94	78-120	0	20	mg/kg	07.20.17 16:37
o-Xylene	< 0.00682	2.00	1.87	94	1.85	93	78-120	1	20	mg/kg	07.20.17 16:37

MB LCS LCS LCSD Analysis MB LCSD Limits Units **Surrogate** Date %Rec Flag %Rec Flag Flag %Rec 97 96 96 07.20.17 16:37 4-Bromofluorobenzene 68-120 % 97 93 95 71-121 07.20.17 16:37 a,a,a-Trifluorotoluene %

Analytical Method: BTEX by EPA 8021B SW5030B Prep Method:

Seq Number: 3022806 Matrix: Soil Date Prep: 07.20.17 MS Sample Id: 557913-005 S MSD Sample Id: 557913-005 SD Parent Sample Id: 557913-005

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00876	1.94	1.50	77	1.44	76	54-120	4	25	mg/kg	07.20.17 20:16
Toluene	0.00986	1.94	1.65	85	1.57	83	57-120	5	25	mg/kg	07.20.17 20:16
Ethylbenzene	< 0.00597	1.94	1.72	89	1.64	87	58-131	5	25	mg/kg	07.20.17 20:16
m,p-Xylenes	0.00789	3.88	3.45	89	3.29	87	62-124	5	25	mg/kg	07.20.17 20:16
o-Xylene	< 0.00661	1.94	1.70	88	1.63	86	62-124	4	25	mg/kg	07.20.17 20:16

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	100		102		68-120	%	07.20.17 20:16
a,a,a-Trifluorotoluene	102		103		71-121	%	07.20.17 20:16

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B Seq Number: 3022814 Matrix: Solid Date Prep: 07.20.17

LCS Sample Id: 727951-1-BKS LCSD Sample Id: 727951-1-BSD MB Sample Id: 727951-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.00	20.0	17.6	88	21.3	107	35-129	19	20	mg/kg	07.20.17 17:32	
Cuma anda	MB	MB	L	cs I	.cs	LCSI	D LCS	D Li	imits	Units	Analysis	

Flag

%Rec 07.20.17 17:32 4-Bromofluorobenzene 88 93 103 76-123 % 07.20.17 17:32 a,a,a-Trifluorotoluene 105 102 112 69-120

%Rec

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Flag



QC Summary 557911

TRC Solutions, Inc

Jal #3 West Exc B

Analytical Method:TPH GRO by EPA 8015 Mod.Prep Method:SW5030BSeq Number:3022966Matrix:SolidDate Prep:07.21.17

MB Sample Id: 728047-1-BLK LCS Sample Id: 728047-1-BKS LCSD Sample Id: 728047-1-BSD

MB Spike LCS LCS Limits %RPD **RPD** LCSD LCSD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec %Rec Result TPH-GRO 35-129 20 07.22.17 00:24 < 4.00 20.0 17.8 89 19.0 95 mg/kg

LCS MB MB LCS LCSD LCSD Limits Units Analysis **Surrogate** Flag %Rec %Rec Flag Flag Date %Rec 4-Bromofluorobenzene 84 87 92 76-123 % 07.22.17 00:24 a,a,a-Trifluorotoluene 100 90 92 69-120 % 07.22.17 00:24

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

 Seq Number:
 3022814
 Matrix:
 Soil
 Date Prep:
 07.20.17

 Parent Sample Id:
 557913-002
 MS Sample Id:
 557913-002 SD
 MSD Sample Id:
 557913-002 SD

Parent Spike MS MS Limits %RPD **RPD** Units MSD MSD Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date TPH-GRO 07.20.17 22:03 19.0 101 20 < 3.76 18.8 18.5 97 35-129 3 mg/kg

MS MSD MS **MSD** Limits Units Analysis **Surrogate** %Rec Flag Flag Date %Rec 4-Bromofluorobenzene 99 106 76-123 % 07.20.17 22:03 a,a,a-Trifluorotoluene 99 103 69-120 % 07.20.17 22:03

Analytical Method:TPH GRO by EPA 8015 Mod.Prep Method:SW5030BSeq Number:3022966Matrix:SoilDate Prep:07.21.17

Parent Sample Id: 557913-004 MS Sample Id: 557913-004 S MSD Sample Id: 557913-004 SD

MS MS %RPD RPD Parent Spike MSD **MSD** Limits Units Analysis **Parameter** Result Result Amount %Rec Limit Date Result %Rec TPH-GRO 35.0 16.4 47 20 07.22.17 04:52 <6.99 14.0 40 35-129 16 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Flag %Rec Flag Date %Rec 89 89 07.22.17 04:52 4-Bromofluorobenzene 76-123 % a,a,a-Trifluorotoluene 84 86 69-120 % 07.22.17 04:52

Flag

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	WWW.Xenco.com	Xenco Quote # Xer	Xenco Job# ACTO /
		Amalufical Information	-
Client / Reporting Information	Project Information	Alarytical information	Matrix Codes
Company Name (Branch: U)	Project Name/Number:		M/ = M/
	MV4 Project Location		S = Soil/Sed/Solid
idan Ki	Jal #3 Wast Exc. B	17.	GW = Ground Water DW = Drinking Water D = Drinking Water
thenk Com	Invoice To:		SW = Surface Water
1/22-4	two-450 67C CIO 2050 Stad	W	SL - Sludge OW = Ocean/Sea Water
Project Contact:		1 S1 S	w wilder of a control of the control
Samplers's Name:		108 }	A=Air
	Collection		
No. Field ID / Point of Collection			
	# of	161	
1 Floor 03'	National Matrix Dottles T 2 A 7 T T N M N M N M N M N M N M N M N M N M		Field Comments
-	5 11/11/ 12:00 5 1		OC
2 North Sidewal	7 1 30:01 7		
3 East Sidewall	7		3
4 South Sidewall			563
5 West Sidewall	0.71		788
_	9		500
11 0			
Φ			
o			
10			
Turnaround Time (Business days)	Data Deliverable Information		
Same Day TAT 5 Day TAT	Level II Std QC	notes:	
Next Day EMERGENCY 7 Day TAT	Level III Std QC+ Forms		
2 Day EMERGENCY			
	Level 3 (CLP Forms) UST / RG -411		
3 Day EMERGENCY	Level II Report with TRRP checklist		
TAT Starts Day received by Lab, if received by 5:00 pm	md (EED EV 1100. Tarability	H 220
Relinquished by Sampler	OCUMENTED BELOW EACH TIME SAMPLES CHANGE POSS		icking #
den	Date Time: Received By: Relinquished By:	te Time:	Received By:
Di sembudansuea pR	ceived By:	Date Time: Receiv	2 Received By:
Relinquished by:	Date Time: Received By: Asset Time: Asset	4	
		Freserved where applicable	On ice Cooler Temn Thorma Care Facta-

Notice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontracteds. It skistigns standard ferms and conditions of service. Xenco will be liable only for the cost of samples and stall not assume any responsibility samples. The samples and stall not assume any responsibility will be eniforced unless previously negotiated under a fully executed client contract.



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc

Date/ Time Received: 07/18/2017 05:45:00 PM

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Work Order #: 557911

Temperature Measuring device used: IR-3

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		4.5
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		Yes
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when relind	quished/ received?	Yes
#12 Chain of Custody agrees with sample	e label(s)?	Yes
#13 Container label(s) legible and intact	?	Yes
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?		Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicat	ed test(s)?	Yes
#19 All samples received within hold time	e?	Yes
#20 Subcontract of sample(s)?		No
#21 VOC samples have zero headspace	?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in PH Device/Lot#:	the refrigerator
·		Date: 07/19/2017
Checklist completed by: Checklist reviewed by:	Brenda Ward Mmy Moah Kalang Brooks	Date: 07/19/2017
	Reisey Diouks	



Jal #3 West Exc.

Project Location:

Certificate of Analysis Summary 557905

TRC Solutions, Inc, Midland, TX

Project Name: Jal #3 West Exc.

Date Received in Lab: Tue Jul-18-17 05:45 pm

Report Date: 27-JUL-17 Project Manager: Kelsey Brooks

Project Id: Contact: Joel Lowry

	Lab Id:	557905-0	001	557905-0	002	557905-0	003	557905-0	004	557905-0	05	
	Field Id:	Floor @		North Side		East Side		South Side		West Side		
Analysis Requested	Depth:	4 ft		3 ft		3 ft		3 ft		3 ft		
	Matrix:	SOIL										
	Sampled:	Jul-18-17 1		Jul-18-17 1	3:15	Jul-18-17 1		Jul-18-17 1		Jul-18-17 1	3:30	
BTEX by EPA 8021B	Extracted:	Jul-20-17 1	12:30	Jul-20-17 1	2:30							
	Analyzed:	Jul-20-17 2		Jul-21-17 0		Jul-21-17 (Jul-20-17 2		Jul-21-17 0		
	Units/RL:	mg/kg	RL									
Benzene	Unus/KL:	<0.0195	0.0195	<0.0196	0.0196	<0.0195	0.0195	<0.0183	0.0183	<0.0198	0.0198	
Toluene		0.0293	0.0195	0.0196	0.0196	0.0780	0.0195	<0.0183	0.0183	<0.0198	0.0198	
Ethylbenzene		0.459	0.0195	0.106	0.0196	1.64	0.0195	0.0495	0.0183	0.0516	0.0198	
m,p-Xylenes		< 0.0391	0.0391	< 0.0393	0.0393	< 0.0390	0.0390	< 0.0367	0.0367	< 0.0397	0.0397	
o-Xylene		0.135	0.0195	< 0.0196	0.0196	< 0.0195	0.0195	< 0.0183	0.0183	< 0.0198	0.0198	
Total Xylenes		0.135	0.0195	< 0.0196	0.0196	< 0.0195	0.0195	< 0.0183	0.0183	< 0.0198	0.0198	
Total BTEX		0.623	0.0195	0.126	0.0196	1.72	0.0195	0.0495	0.0183	0.0516	0.0198	
Chloride by EPA 300	Extracted:	Jul-21-17 1	13:00	Jul-21-17 1	3:00							
	Analyzed:	Jul-24-17 (09:22	Jul-24-17 0	9:59	Jul-24-17 1	0:12	Jul-24-17 1	0:24	Jul-24-17 1	0:36	
	Units/RL:	mg/kg	RL									
Chloride		<25.0	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0	
DRO-ORO By SW8015B	Extracted:	Jul-26-17 1	16:15	Jul-26-17 1	6:15							
	Analyzed:	Jul-27-17 (01:20	Jul-27-17 1	0:14	Jul-27-17 (2:29	Jul-27-17 (3:03	Jul-27-17 0	3:36	
	Units/RL:	mg/kg	RL									
Diesel Range Organics (DRO)		316	25.0	4390	250	284	25.0	49.2	25.0	966	25.0	
Oil Range Hydrocarbons (ORO)		49.2	25.0	399	250	48.7	25.0	25.3	25.0	236	25.0	
TPH GRO by EPA 8015 Mod.	Extracted:	Jul-20-17 1	12:30	Jul-20-17 1	2:30	Jul-21-17 1	4:00	Jul-20-17 1	2:30	Jul-20-17 1	2:30	
	Analyzed:	Jul-20-17 2	23:24	Jul-21-17 0	5:37	Jul-22-17 (2:37	Jul-20-17 2	23:51	Jul-21-17 0	0:18	
	Units/RL:	mg/kg	RL									
TPH-GRO		30.3	3.91	7.06	3.93	181	19.4	<3.67	3.67	<3.97	3.97	

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

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

Kelsey Brooks Project Manager

Analytical Report 557905

for TRC Solutions, Inc

Project Manager: Joel Lowry
Jal #3 West Exc.

27-JUL-17

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



27-JUL-17

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **557905**

Jal #3 West Exc.

Project Address: Jal #3 West Exc.

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 557905. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 557905 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,

Kelsey Brooks

Knus Hoah

Project Manager

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Sample Cross Reference 557905

$TRC\ Solutions, Inc,\ Midland, TX$

Jal #3 West Exc.

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor @ 4'	S	07-18-17 13:10	- 4 ft	557905-001
North Side Wall	S	07-18-17 13:15	- 3 ft	557905-002
East Side Wall	S	07-18-17 13:20	- 3 ft	557905-003
South Side Wall	S	07-18-17 13:25	- 3 ft	557905-004
West Side Wall	S	07-18-17 13:30	- 3 ft	557905-005

XENCO

CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Jal #3 West Exc.

Project ID: Report Date: 27-JUL-17 Work Order Number(s): 557905 Date Received: 07/18/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3022806 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data

confirmed by re-analysis.

Samples affected are: 557905-003.

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

Batch: LBA-3023296 DRO-ORO By SW8015B

Surrogate Tricosane, Surrogate n-Triacontane recovered above QC limits. Matrix interferences is

suspected; data confirmed by re-analysis. Samples affected are: 557905-002,557905-005.

Matrix spikes were ran with batch but could not be reported due to different report method.

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Final 1.000



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc.

Date Received:07.18.17 17.45 Sample Id: Floor @ 4' Matrix: Soil

Lab Sample Id: 557905-001 Date Collected: 07.18.17 13.10 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

% Moisture:

RNL Tech: RNL Basis: Analyst: Date Prep: 07.21.17 13.00 Wet Weight

Seq Number: 3023006

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 <25.0 07.24.17 09.22 U 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

PGM Tech:

PGM Analyst: Basis: Wet Weight Date Prep: 07.26.17 16.15

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	316	25.0		mg/kg	07.27.17 01.20		1
Oil Range Hydrocarbons (ORO)	PHCG2835	49.2	25.0		mg/kg	07.27.17 01.20		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	123	%	65-144	07.27.17 01.20		
n-Triacontane		638-68-6	140	%	46-152	07.27.17 01.20		

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

MIT Tech:

MIT Basis: Wet Weight Analyst: 07.20.17 12.30 Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0195	0.0195		mg/kg	07.20.17 23.24	U	1
Toluene	108-88-3	0.0293	0.0195		mg/kg	07.20.17 23.24		1
Ethylbenzene	100-41-4	0.459	0.0195		mg/kg	07.20.17 23.24		1
m,p-Xylenes	179601-23-1	< 0.0391	0.0391		mg/kg	07.20.17 23.24	U	1
o-Xylene	95-47-6	0.135	0.0195		mg/kg	07.20.17 23.24		1
Total Xylenes	1330-20-7	0.135	0.0195		mg/kg	07.20.17 23.24		1
Total BTEX		0.623	0.0195		mg/kg	07.20.17 23.24		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	68-120	07.20.17 23.24		
a,a,a-Trifluorotoluene		98-08-8	106	%	71-121	07.20.17 23.24		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc.

Sample Id: Floor @ 4' Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557905-001 Date Collected: 07.18.17 13.10 Sample Depth: 4 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Seq Number: 3022814

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	30.3	3.91		mg/kg	07.20.17 23.24		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	101	%	76-123	07.20.17 23.24		
a,a,a-Trifluorotoluene	9	98-08-8	102	%	69-120	07.20.17 23.24		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc.

Sample Id: North Side Wall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557905-002 Date Collected: 07.18.17 13.15 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

% Moisture:

Analyst: RNL Date Prep: 07.21.17 13.00 Basis: Wet Weight

Seq Number: 3023006

Tech:

RNL

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 <25.0 07.24.17 09.59 U 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM

Analyst: PGM Date Prep: 07.26.17 16.15 Basis: Wet Weight

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	4390	250		mg/kg	07.27.17 10.14		10
Oil Range Hydrocarbons (ORO)	PHCG2835	399	250		mg/kg	07.27.17 10.14		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	887	%	65-144	07.27.17 10.14	**	
n-Triacontane		638-68-6	665	%	46-152	07.27.17 10.14	**	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0196	0.0196		mg/kg	07.21.17 05.37	U	1
Toluene	108-88-3	0.0196	0.0196		mg/kg	07.21.17 05.37		1
Ethylbenzene	100-41-4	0.106	0.0196		mg/kg	07.21.17 05.37		1
m,p-Xylenes	179601-23-1	< 0.0393	0.0393		mg/kg	07.21.17 05.37	U	1
o-Xylene	95-47-6	< 0.0196	0.0196		mg/kg	07.21.17 05.37	U	1
Total Xylenes	1330-20-7	< 0.0196	0.0196		mg/kg	07.21.17 05.37	U	1
Total BTEX		0.126	0.0196		mg/kg	07.21.17 05.37		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	68-120	07.21.17 05.37		
a,a,a-Trifluorotoluene		98-08-8	95	%	71-121	07.21.17 05.37		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc.

Sample Id: North Side Wall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557905-002 Date Collected: 07.18.17 13.15 Sample Depth: 3 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	7.06	3.93		mg/kg	07.21.17 05.37		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	86	%	76-123	07.21.17 05.37		
a,a,a-Trifluorotoluene	9	98-08-8	98	%	69-120	07.21.17 05.37		



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Jal #3 West Exc.

07.21.17 13.00

Sample Id: East Side Wall Matrix: Soil Date Received:07.18.17 17.45

Date Prep:

Lab Sample Id: 557905-003 Date Collected: 07.18.17 13.20 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Wet Weight

Basis:

% Moisture:

% Moisture:

Tech: RNL % Moisture:

Seq Number: 3023006

Analyst:

RNL

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 <25.0 07.24.17 10.12 U 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM

Analyst: PGM Date Prep: 07.26.17 16.15 Basis: Wet Weight

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	284	25.0		mg/kg	07.27.17 02.29		1
Oil Range Hydrocarbons (ORO)	PHCG2835	48.7	25.0		mg/kg	07.27.17 02.29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	144	%	65-144	07.27.17 02.29		
n-Triacontane		638-68-6	151	%	46-152	07.27.17 02.29		

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0195	0.0195		mg/kg	07.21.17 05.11	U	1
Toluene	108-88-3	0.0780	0.0195		mg/kg	07.21.17 05.11		1
Ethylbenzene	100-41-4	1.64	0.0195		mg/kg	07.21.17 05.11		1
m,p-Xylenes	179601-23-1	< 0.0390	0.0390		mg/kg	07.21.17 05.11	U	1
o-Xylene	95-47-6	< 0.0195	0.0195		mg/kg	07.21.17 05.11	U	1
Total Xylenes	1330-20-7	< 0.0195	0.0195		mg/kg	07.21.17 05.11	U	1
Total BTEX		1.72	0.0195		mg/kg	07.21.17 05.11		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	189	%	68-120	07.21.17 05.11	**	
a,a,a-Trifluorotoluene		98-08-8	110	%	71-121	07.21.17 05.11		



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Jal #3 West Exc.

Sample Id: East Side Wall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557905-003 Date Collected: 07.18.17 13.20 Sample Depth: 3 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.21.17 14.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	181	19.4		mg/kg	07.22.17 02.37		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	118	%	76-123	07.22.17 02.37		
a,a,a-Trifluorotoluene	9	98-08-8	97	%	69-120	07.22.17 02.37		



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Jal #3 West Exc.

Date Received:07.18.17 17.45 Sample Id: **South Side Wall** Matrix: Soil

Lab Sample Id: 557905-004 Date Collected: 07.18.17 13.25 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

% Moisture:

RNL Tech: RNL Basis: Analyst: Date Prep: 07.21.17 13.00 Wet Weight

Seq Number: 3023006

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 <25.0 07.24.17 10.24 U 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

PGM Tech:

PGM Analyst: Basis: Wet Weight Date Prep: 07.26.17 16.15

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	49.2	25.0		mg/kg	07.27.17 03.03		1
Oil Range Hydrocarbons (ORO)	PHCG2835	25.3	25.0		mg/kg	07.27.17 03.03		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	113	%	65-144	07.27.17 03.03		
n-Triacontane		638-68-6	137	%	46-152	07.27.17 03.03		

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

MIT Tech:

MIT Basis: Wet Weight Analyst: 07.20.17 12.30 Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0183	0.0183		mg/kg	07.20.17 23.51	U	1
Toluene	108-88-3	< 0.0183	0.0183		mg/kg	07.20.17 23.51	U	1
Ethylbenzene	100-41-4	0.0495	0.0183		mg/kg	07.20.17 23.51		1
m,p-Xylenes	179601-23-1	< 0.0367	0.0367		mg/kg	07.20.17 23.51	U	1
o-Xylene	95-47-6	< 0.0183	0.0183		mg/kg	07.20.17 23.51	U	1
Total Xylenes	1330-20-7	< 0.0183	0.0183		mg/kg	07.20.17 23.51	U	1
Total BTEX		0.0495	0.0183		mg/kg	07.20.17 23.51		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	68-120	07.20.17 23.51		
a,a,a-Trifluorotoluene		98-08-8	99	%	71-121	07.20.17 23.51		



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Jal #3 West Exc.

Sample Id: South Side Wall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557905-004 Date Collected: 07.18.17 13.25 Sample Depth: 3 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

% Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Seq Number: 3022814

Tech:

MIT

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.67	3.67		mg/kg	07.20.17 23.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	90	%	76-123	07.20.17 23.51		
a,a,a-Trifluorotoluene	!	98-08-8	98	%	69-120	07.20.17 23.51		



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Jal #3 West Exc.

07.21.17 13.00

Prep Method: E300P

Wet Weight

Basis:

% Moisture:

% Moisture:

Date Received:07.18.17 17.45 Sample Id: West Side Wall Matrix: Soil

Lab Sample Id: 557905-005 Date Collected: 07.18.17 13.30 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

RNL % Moisture:

Date Prep:

Seq Number: 3023006

RNL

Tech:

Analyst:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 <25.0 07.24.17 10.36 U 25.0 mg/kg 1

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

PGM Tech:

PGM Analyst: Basis: Wet Weight Date Prep: 07.26.17 16.15

Seq Number: 3023296

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	966	25.0		mg/kg	07.27.17 03.36		1
Oil Range Hydrocarbons (ORO)	PHCG2835	236	25.0		mg/kg	07.27.17 03.36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	305	%	65-144	07.27.17 03.36	**	
n-Triacontane		638-68-6	357	%	46-152	07.27.17 03.36	**	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

MIT Tech:

MIT Basis: Wet Weight Analyst: 07.20.17 12.30 Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0198	0.0198		mg/kg	07.21.17 00.18	U	1
Toluene	108-88-3	< 0.0198	0.0198		mg/kg	07.21.17 00.18	U	1
Ethylbenzene	100-41-4	0.0516	0.0198		mg/kg	07.21.17 00.18		1
m,p-Xylenes	179601-23-1	< 0.0397	0.0397		mg/kg	07.21.17 00.18	U	1
o-Xylene	95-47-6	< 0.0198	0.0198		mg/kg	07.21.17 00.18	U	1
Total Xylenes	1330-20-7	< 0.0198	0.0198		mg/kg	07.21.17 00.18	U	1
Total BTEX		0.0516	0.0198		mg/kg	07.21.17 00.18		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	68-120	07.21.17 00.18		
a,a,a-Trifluorotoluene		98-08-8	108	%	71-121	07.21.17 00.18		



TRC Solutions, Inc, Midland, TX

Jal #3 West Exc.

Sample Id: West Side Wall Matrix: Soil Date Received:07.18.17 17.45

Lab Sample Id: 557905-005 Date Collected: 07.18.17 13.30 Sample Depth: 3 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 07.20.17 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.97	3.97		mg/kg	07.21.17 00.18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	98	%	76-123	07.21.17 00.18		
a,a,a-Trifluorotoluene		98-08-8	105	%	69-120	07.21.17 00.18		



Flagging Criteria

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

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

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

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Jal #3 West Exc.

Analytical Method: Chloride by EPA 300

Seq Number:

3023006 Matrix: Solid

LCS Sample Id: 728108-1-BKS MB Sample Id: 728108-1-BLK

E300P Prep Method: Date Prep: 07.21.17

LCSD Sample Id: 728108-1-BSD

Flag

RPD MB Spike LCS LCS Limits %RPD LCSD LCSD Units Analysis **Parameter** Result Result Limit Date Amount %Rec %Rec Result

Chloride 90-110 20 07.24.17 08:57 <25.0 250 249 100 258 103 4 mg/kg

Analytical Method: Chloride by EPA 300

Seq Number: 3023006

Parent Sample Id: 557905-001

Matrix: Soil MS Sample Id: 557905-001 S Date Prep: 07.21.17

Prep Method:

MSD Sample Id: 557905-001 SD

E300P

Parent MS MS Limits %RPD RPD Units Spike **MSD** MSD Analysis Flag **Parameter** Result Amount Result %Rec Limit Date Result %Rec

Chloride <25.0 250 273 109 267 107 80-120 2 20 mg/kg 07.24.17 09:34

Analytical Method: Chloride by EPA 300

Seq Number: 3023006 Matrix: Soil Prep Method: E300P

Date Prep: 07.21.17

557913-005 S MS Sample Id: MSD Sample Id: 557913-005 SD Parent Sample Id: 557913-005

MS RPD Parent Spike MS MSD **MSD** Limits %RPD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec 20 07.24.17 12:45 Chloride <25.0 250 261 104 265 106 80-120 2 mg/kg

Analytical Method: DRO-ORO By SW8015B

Seq Number: 3023296 Matrix: Solid

LCS Sample Id: 728282-1-BKS MB Sample Id: 728282-1-BLK

SW8015P Prep Method:

07.26.17 Date Prep:

LCSD Sample Id: 728282-1-BSD RPD LCS LCS %RPD MB Spike LCSD Limits Units Analysis LCSD Flag **Parameter**

Result Limit Result Amount %Rec Date Result %Rec 07.26.17 21:11 Diesel Range Organics (DRO) <25.0 100 103 103 88.6 89 63-139 15 20 mg/kg

LCS LCS MB MB LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec Flag %Rec Flag Date %Rec 07.26.17 21:11 115 102 Tricosane 112 65-144 % 07.26.17 21:11 n-Triacontane 127 124 114 46-152 %



TRC Solutions, Inc

Jal #3 West Exc.

Analytical Method: BTEX by EPA 8021B SW5030B Prep Method: Seq Number: 3022806 Matrix: Solid Date Prep: 07.20.17

LCS Sample Id: 727950-1-BKS MB Sample Id: 727950-1-BLK

LCSD Sample Id: 727950-1-BSD

SW5030B

Analysis

Date

Prep Method:

Flag

Flag

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.0200	2.00	1.88	94	1.87	94	55-120	1	20	mg/kg	07.20.17 16:37
Toluene	< 0.0200	2.00	1.91	96	1.88	94	77-120	2	20	mg/kg	07.20.17 16:37
Ethylbenzene	< 0.0200	2.00	1.88	94	1.87	94	77-120	1	20	mg/kg	07.20.17 16:37
m,p-Xylenes	< 0.0400	4.00	3.77	94	3.77	94	78-120	0	20	mg/kg	07.20.17 16:37
o-Xylene	< 0.0200	2.00	1.87	94	1.85	93	78-120	1	20	mg/kg	07.20.17 16:37

MB LCS LCSD Analysis MB LCS LCSD Limits Units **Surrogate** Date %Rec Flag %Rec Flag Flag %Rec 97 96 96 07.20.17 16:37 4-Bromofluorobenzene 68-120 % 97 93 95 71-121 07.20.17 16:37 a,a,a-Trifluorotoluene %

Analytical Method: BTEX by EPA 8021B

MB

Flag

MB

%Rec

Surrogate

Seq Number: 3022806 Matrix: Soil Date Prep: 07.20.17 MS Sample Id: 557913-005 S MSD Sample Id: 557913-005 SD Parent Sample Id: 557913-005

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.0194	1.94	1.50	77	1.44	76	54-120	4	25	mg/kg	07.20.17 20:16
Toluene	< 0.0194	1.94	1.65	85	1.57	83	57-120	5	25	mg/kg	07.20.17 20:16
Ethylbenzene	< 0.0194	1.94	1.72	89	1.64	87	58-131	5	25	mg/kg	07.20.17 20:16
m,p-Xylenes	< 0.0388	3.88	3.45	89	3.29	87	62-124	5	25	mg/kg	07.20.17 20:16
o-Xylene	< 0.0194	1.94	1.70	88	1.63	86	62-124	4	25	mg/kg	07.20.17 20:16

Surrogate	MS M %Rec Fla	- 111010	MSD Limits Flag	Units	Analysis Date
4-Bromofluorobenzene	100	102	68-120	%	07.20.17 20:16
a,a,a-Trifluorotoluene	102	103	71-121	%	07.20.17 20:16

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B Seq Number: 3022814 Matrix: Solid Date Prep: 07.20.17

LCS Sample Id: 727951-1-BKS LCSD Sample Id: 727951-1-BSD MB Sample Id: 727951-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.00	20.0	17.6	88	21.3	107	35-129	19	20	mg/kg	07.20.17 17:32	

LCS

Flag

%Rec 07.20.17 17:32 4-Bromofluorobenzene 88 93 103 76-123 % 07.20.17 17:32 a,a,a-Trifluorotoluene 105 102 112 69-120

LCS

%Rec

Page 18 of 21 Final 1.000

LCSD

Flag

Limits

Units

LCSD



TRC Solutions, Inc

Jal #3 West Exc.

Analytical Method:	TPH GRO by EPA 8015 Mod.			Prep Method:	SW 5030B
Seq Number:	3022966	Matrix:	Solid	Date Prep:	07.21.17
MB Sample Id:	728047-1-BLK	LCS Sample Id:	728047-1-BKS	LCSD Sample Id:	728047-1-BSD

MB Spike LCS LCS %RPD **RPD** LCSD LCSD Limits Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec TPH-GRO 20 07.22.17 00:24 <4.00 20.0 17.8 89 19.0 95 35-129 mg/kg

LCS MB MB LCS LCSD LCSD Limits Units Analysis **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 4-Bromofluorobenzene 84 87 92 76-123 % 07.22.17 00:24 a,a,a-Trifluorotoluene 100 90 92 69-120 % 07.22.17 00:24

 Analytical Method:
 TPH GRO by EPA 8015 Mod.
 Prep Method:
 SW5030B

 Seq Number:
 3022814
 Matrix:
 Soil
 Date Prep:
 07.20.17

 Parent Sample Id:
 557913-002
 MS Sample Id:
 557913-002 S
 MSD Sample Id:
 557913-002 SD

Spike Parent MS MS MSD Limits %RPD **RPD** Units MSD Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date 07.20.17 22:03 TPH-GRO 19.0 20 < 3.76 18.8 101 18.5 97 35-129 3 mg/kg

MS MSD MS MSD Limits Units Analysis **Surrogate** %Rec Flag Flag Date %Rec 4-Bromofluorobenzene 99 106 76-123 % 07.20.17 22:03 a,a,a-Trifluorotoluene 99 103 69-120 % 07.20.17 22:03

 Analytical Method:
 TPH GRO by EPA 8015 Mod.
 Prep Method:
 SW 5030B

 Seq Number:
 3022966
 Matrix:
 Soil
 Date Prep:
 07.21.17

 Parent Sample Id:
 557913-004
 MS Sample Id:
 557913-004 S
 MSD Sample Id:
 557913-004 SD

MS MS %RPD RPD Parent Spike MSD **MSD** Limits Units Analysis Flag **Parameter** Result Amount Result %Rec Limit Date Result %Rec TPH-GRO 35.0 16.4 47 20 07.22.17 04:52 <6.99 14.0 40 35-129 16 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Flag %Rec Flag Date %Rec 89 89 07.22.17 04:52 4-Bromofluorobenzene 76-123 % a,a,a-Trifluorotoluene 84 86 69-120 % 07.22.17 04:52

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	www.xenco.com	# 91000 001000	Xenco Job # Venco Job #	557905
				00
Client / Reporting Information	Project Information		Analytical Information	Matrix Codes
Company Name / Branch: Lion	Project Name/Number:			W = Wober
STOPPER STOP	VC Project Location:			S = Soil/Sed/Solid GW = Ground Water
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jal # > West EXC.	Tai		DW = Drinking Water P = Product
Schutistics, Color Phone No:	Invoice To:			SW = Surface Water SL - Sludge OW = Ocean/Sea Water
3	1	201		WI = Wipe 0 = 0il
Samplers's Name:	PO Number:			WW = Waste Water A = Air
	Collection Number of pre	Number of preserved bottles		
No. Field ID / Point of Collection	jo u			
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West Sidewall	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
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Turnaround Time (Business days)	Data Deliverable Information			
Same Day TAT 5 Day TAT	_	Level IV (Full Data Pkn fraw data)	Notes:	
Next Day EMERGENCY 7 Day TAT	Level III Std QC+ Forms	TRRP I avai IV		
2 Day EMERGENCY				
		UST / RG -411		
) Day EMERGENCY	Level II Report with TRRP checklist			
TAT Starts Day received by Lab, if received by 5:00 pm	m.		FED. EV / 1100 - Tenation in	
Relinquished by Sampler: SAMPLE CUSTODY MUST	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Date Time: Description Description Description Description	ION, INCLUDING COURIER DELIVERY	TOTAL OF O. LIACKING #	
The same of the sa	Desertion: Received by: Relin	Relinquished By: Date Time:	me: Received By:	
	Received By:	Relinquished By: Date Time:		
Relinquished by: Date	secived By:	Custedy Seal# Preserved w	Preserved where applicable On Ice Conter	or Town Thomas Comer

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractions: Washing standard ferms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility samples. Any samples and shall not assume any responsibility will be limited to the cost of samples and shall not assume any responsibility.



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc.

Date/ Time Received: 07/18/2017 05:45:00 PM

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Work Order #: 557905

Temperature Measuring device used: IR-3

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		4.5
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping co	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	nin of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when relin	quished/ received?	Yes
#12 Chain of Custody agrees with samp	le label(s)?	Yes
#13 Container label(s) legible and intact	?	Yes
#14 Sample matrix/ properties agree with	h Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	?	Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicat	ed test(s)?	Yes
#19 All samples received within hold tim	e?	Yes
#20 Subcontract of sample(s)?		No
#21 VOC samples have zero headspace	9?	N/A
* Must be completed for after-hours de Analyst:	elivery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by:	Brenda Ward Brenda Ward Mmw Moah Kelsey Brooks	Date: 07/19/2017
Checklist reviewed by:	Mmy Hoah Kelsey Brooks	Date: 07/19/2017



Joel Lowry

Lea County NM

Contact:

Project Location:

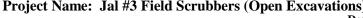
Certificate of Analysis Summary 561286

TRC Solutions, Inc, Midland, TX

Project Name: Jal #3 Field Scrubbers (Open Excavations)

Date Received in Lab: Fri Aug-25-17 02:00 pm

Report Date: 31-AUG-17 Project Manager: Kelsey Brooks



	Lab Id:	561286-	561286-001 56		002	561286-	003	561286-	004		
Analusia Banusatad	Field Id:	Exc. A TT	r @9	Exc. B TT	@8	Exc. B SS	WB	Exc. C TI	@9		
Analysis Requested	Depth:	9-0 ft	:	8-0 ft		7-5 ft		9-0 ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Aug-23-17	Aug-23-17 10:10		Aug-23-17 10:30		10:35	Aug-23-17	10:52		
BTEX by EPA 8021B	Extracted:	Aug-28-17 16:00		Aug-29-17	09:00	Aug-30-17	08:00	Aug-28-17	16:00		
	Analyzed:	Aug-28-17	23:54	Aug-29-17	19:27	Aug-30-17	13:56	Aug-29-17	00:13		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		0.00216	0.00202	< 0.00952	0.00952	< 0.00201	0.00201	< 0.00202	0.00202		
Toluene		< 0.00202	0.00202	< 0.00952	0.00952	0.00848	0.00201	< 0.00202	0.00202		
Ethylbenzene		0.00210	0.00202	< 0.00952	0.00952	< 0.00201	0.00201	< 0.00202	0.00202		
m,p-Xylenes		0.00747	0.00404	< 0.0190	0.0190	< 0.00402	0.00402	< 0.00404	0.00404		
o-Xylene		0.00585	0.00202	< 0.00952	0.00952	< 0.00201	0.00201	< 0.00202	0.00202		
Total Xylenes		0.01332	0.00202	< 0.00952	0.00952	< 0.00201	0.00201	< 0.00202	0.00202		
Total BTEX		0.01758	0.00202	<0.00952 0.00952	0.00848 0.00201	<0.00202 0.00202					
Chloride by EPA 300	Extracted:	Aug-29-17	16:15	Aug-29-17 16:15		Aug-29-17 16:15		Aug-29-17 16:15			
	Analyzed:	Aug-30-17	01:09	Aug-30-17	01:20	Aug-30-17	00:28	Aug-30-17	00:38		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride	'	140	4.99	207	4.90	58.7	5.00	33.1	4.97		
TPH by SW8015 Mod	Extracted:	Aug-25-17	17:00	Aug-25-17	17:00	Aug-25-17	17:00	Aug-25-17	17:00		
	Analyzed:	Aug-26-17	15:18	Aug-26-17	00:25	Aug-26-17	15:38	Aug-26-17	01:06		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		40.3	15.0	<15.0	15.0	36.4	14.9	<15.0	15.0		
Diesel Range Organics (DRO)		779	15.0	<15.0	15.0	9230	14.9	<15.0	15.0		
Oil Range Hydrocarbons (ORO)		161	15.0	<15.0	15.0	2920	14.9	<15.0	15.0		
Total TPH		980.3	15	<15	15	12186.4	14.9	<15	15		

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

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

Kelsey Brooks Project Manager

Knis Roah

Analytical Report 561286

for TRC Solutions, Inc

Project Manager: Joel Lowry

Jal #3 Field Scrubbers (Open Excavations)

31-AUG-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





31-AUG-17

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 561286

Jal #3 Field Scrubbers (Open Excavations)

Project Address: Lea County NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 561286. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 561286 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Kelsey Brooks

Knus Hoah

Project Manager

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Sample Cross Reference 561286



$TRC\ Solutions,\ Inc,\ Midland,\ TX$

Jal #3 Field Scrubbers (Open Excavations)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Exc. A TT @9	S	08-23-17 10:10	9 - 0 ft	561286-001
Exc. B TT @8	S	08-23-17 10:30	8 - 0 ft	561286-002
Exc. B SSWB	S	08-23-17 10:35	7 - 5 ft	561286-003
Exc. C TT @9	S	08-23-17 10:52	9 - 0 ft	561286-004



CASE NARRATIVE

Client Name: TRC Solutions, Inc

Project Name: Jal #3 Field Scrubbers (Open Excavations)

Project ID: Report Date: 31-AUG-17 Work Order Number(s): 561286 Date Received: 08/25/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3026156 BTEX by EPA 8021B

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

Batch: LBA-3026246 BTEX by EPA 8021B

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

Batch: LBA-3026250 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected; data

confirmed by re-analysis.

Samples affected are: 561286-003.

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





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (Open Excavations)

Sample Id: Exc. A TT @9 Matrix: Soil Date Received:08.25.17 14.00

Lab Sample Id: 561286-001 Date Collected: 08.23.17 10.10 Sample Depth: 9 - 0 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: MNV Date Prep: 08.29.17 16.15 Basis: Wet Weight

Seq Number: 3026248

MNV

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 140
 4.99
 mg/kg
 08.30.17 01.09
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.25.17 17.00 Basis: Wet Weight

Seq Number: 3026104

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	40.3	15.0		mg/kg	08.26.17 15.18		1
Diesel Range Organics (DRO)	C10C28DRO	779	15.0		mg/kg	08.26.17 15.18		1
Oil Range Hydrocarbons (ORO)	PHCG2835	161	15.0		mg/kg	08.26.17 15.18		1
Total TPH	PHC635	980.3	15		mg/kg	08.26.17 15.18		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	08.26.17 15.18		
o-Terphenyl		84-15-1	98	%	70-135	08.26.17 15.18		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (Open Excavations)

Sample Id: Exc. A TT @9 Matrix: Soil Date Received:08.25.17 14.00

Lab Sample Id: 561286-001 Date Collected: 08.23.17 10.10 Sample Depth: 9 - 0 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

Analyst: ALJ Date Prep: 08.28.17 16.00 Basis: Wet Weight

Seq Number: 3026156

ALJ

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00216	0.00202		mg/kg	08.28.17 23.54		1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.28.17 23.54	U	1
Ethylbenzene	100-41-4	0.00210	0.00202		mg/kg	08.28.17 23.54		1
m,p-Xylenes	179601-23-1	0.00747	0.00404		mg/kg	08.28.17 23.54		1
o-Xylene	95-47-6	0.00585	0.00202		mg/kg	08.28.17 23.54		1
Total Xylenes	1330-20-7	0.01332	0.00202		mg/kg	08.28.17 23.54		1
Total BTEX		0.01758	0.00202		mg/kg	08.28.17 23.54		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	93	%	80-120	08.28.17 23.54		
4-Bromofluorobenzene		460-00-4	81	%	80-120	08.28.17 23.54		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (Open Excavations)

Sample Id: Exc. B TT @8 Matrix: Soil Date Received:08.25.17 14.00

Lab Sample Id: 561286-002 Date Collected: 08.23.17 10.30 Sample Depth: 8 - 0 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MNV % Moisture:

Analyst: MNV Date Prep: 08.29.17 16.15 Basis: Wet Weight

Seq Number: 3026248

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 207
 4.90
 mg/kg
 08.30.17 01.20
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.25.17 17.00 Basis: Wet Weight

Seq Number: 3026104

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.26.17 00.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.26.17 00.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.26.17 00.25	U	1
Total TPH	PHC635	<15	15		mg/kg	08.26.17 00.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	116	%	70-135	08.26.17 00.25		
o-Terphenyl		84-15-1	112	%	70-135	08.26.17 00.25		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (Open Excavations)

Sample Id: Exc. B TT @8 Matrix: Soil Date Received:08.25.17 14.00

Lab Sample Id: 561286-002 Date Collected: 08.23.17 10.30 Sample Depth: 8 - 0 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

Analyst: ALJ Date Prep: 08.29.17 09.00 Basis: Wet Weight

Seq Number: 3026246

ALJ

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
Toluene	108-88-3	< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
Ethylbenzene	100-41-4	< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
m,p-Xylenes	179601-23-1	< 0.0190	0.0190		mg/kg	08.29.17 19.27	U	1
o-Xylene	95-47-6	< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
Total Xylenes	1330-20-7	< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
Total BTEX		< 0.00952	0.00952		mg/kg	08.29.17 19.27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	94	%	80-120	08.29.17 19.27		
4-Bromofluorobenzene		460-00-4	89	%	80-120	08.29.17 19.27		





Wet Weight

Flag

Dil

Basis:

Analysis Date

Units

TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (Open Excavations)

Sample Id: Exc. B SSWB Matrix: Soil Date Received:08.25.17 14.00

Lab Sample Id: 561286-003 Date Collected: 08.23.17 10.35 Sample Depth: 7 - 5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

MNV % Moisture:

Analyst: MNV Date Prep: 08.29.17 16.15

Cas Number

Seq Number: 3026248

Result

 Chloride
 16887-00-6
 58.7
 5.00
 mg/kg
 08.30.17 00.28
 1

RL

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.25.17 17.00 Basis: Wet Weight

Seq Number: 3026104

Tech:

Parameter

Parameter	Cas Number	er Result RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	36.4	14.9		mg/kg	08.26.17 15.38		1
Diesel Range Organics (DRO)	C10C28DRO	9230	14.9		mg/kg	08.26.17 15.38		1
Oil Range Hydrocarbons (ORO)	PHCG2835	2920	14.9		mg/kg	08.26.17 15.38		1
Total TPH	PHC635	12186.4	14.9		mg/kg	08.26.17 15.38		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	109	%	70-135	08.26.17 15.38		
o-Terphenyl		84-15-1	97	%	70-135	08.26.17 15.38		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (Open Excavations)

Sample Id: Exc. B SSWB Matrix: Soil Date Received:08.25.17 14.00

Lab Sample Id: 561286-003 Date Collected: 08.23.17 10.35 Sample Depth: 7 - 5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

ALJ % Moisture:

Analyst: ALJ Date Prep: 08.30.17 08.00 Basis: Wet Weight

Seq Number: 3026250

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	08.30.17 13.56	U	1
Toluene	108-88-3	0.00848	0.00201		mg/kg	08.30.17 13.56		1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	08.30.17 13.56	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	08.30.17 13.56	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	08.30.17 13.56	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	08.30.17 13.56	U	1
Total BTEX		0.00848	0.00201		mg/kg	08.30.17 13.56		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	70	%	80-120	08.30.17 13.56	**	
1,4-Difluorobenzene		540-36-3	111	%	80-120	08.30.17 13.56		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (Open Excavations)

Sample Id: Exc. C TT @9 Matrix: Soil Date Received:08.25.17 14.00

Lab Sample Id: 561286-004 Date Collected: 08.23.17 10.52 Sample Depth: 9 - 0 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: MNV Date Prep: 08.29.17 16.15 Basis: Wet Weight

Seq Number: 3026248

MNV

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 33.1
 4.97
 mg/kg
 08.30.17 00.38
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.25.17 17.00 Basis: Wet Weight

Seq Number: 3026104

Parameter	Cas Number	ber Result RL U		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.26.17 01.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.26.17 01.06	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.26.17 01.06	U	1
Total TPH	PHC635	<15	15		mg/kg	08.26.17 01.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	100	%	70-135	08.26.17 01.06		
o-Terphenyl		84-15-1	95	%	70-135	08.26.17 01.06		





Wet Weight

TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (Open Excavations)

08.28.17 16.00

Basis:

Sample Id: Exc. C TT @9 Matrix: Soil Date Received:08.25.17 14.00

Lab Sample Id: 561286-004 Date Collected: 08.23.17 10.52 Sample Depth: 9 - 0 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

> ALJ % Moisture: Date Prep:

Seq Number: 3026156

ALJ

Tech:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	08.29.17 00.13	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.29.17 00.13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	86	%	80-120	08.29.17 00.13		
1,4-Difluorobenzene		540-36-3	95	%	80-120	08.29.17 00.13		



Flagging Criteria



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

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

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

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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1211 W Florida Ave, Midland, TX 79701 (432) 563-1800 (432) 563-1713
2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282 (602) 437-0330



TRC Solutions, Inc

Jal #3 Field Scrubbers (Open Excavations)

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Seq Number: 3026248 Matrix: Solid

Date Prep: 08.29.17

MB Sample Id: 730075-1-BLK LCS Sample Id: 730075-1-BKS

LCSD Sample Id: 730075-1-BSD

Units

mg/kg

Parameter

MB Spike Result Amount

LCS %Rec

Limits LCSD %Rec

%RPD **RPD** Limit

0

Analysis Date

Chloride

< 5.00 250

99

LCS

247

Result

LCSD Result 99 247

90-110

20

08.29.17 20:19

Flag

Analytical Method: Chloride by EPA 300

3026248

Matrix: Soil

E300P Prep Method: Date Prep:

08.29.17

Seq Number: Parent Sample Id:

MS Sample Id: 560863-007 S

MSD Sample Id:

560863-007 SD

Parameter

560863-007

MS MS

MSD MSD

Limits %RPD RPD Units

Analysis Flag

Chloride

Parent Result

998

Parent

Result

1290

Spike Amount 247

Result %Rec 1220 90

Result 1200 %Rec 82 90-110

Limit 2 20

Date mg/kg 08.29.17 23:15

X

Analytical Method: Chloride by EPA 300

3026248

245

Prep Method: Date Prep:

RPD

Limit

20

E300P

Seq Number: Parent Sample Id:

Matrix: Soil MS Sample Id:

110

Matrix: Solid

561383-021 S

1560

90-110

08.29.17

MSD Sample Id: 561383-021 SD

Parameter

561383-021

Spike Amount

MS MS Result %Rec

LCS Sample Id:

LCS

1180

Result

1560

MSD Result

MSD %Rec

LCSD

%Rec

%Rec

108

102

110

Limits %RPD

0

%RPD

Units

mg/kg

Analysis Flag Date

08.29.17 20:50

Chloride

Analytical Method: TPH by SW8015 Mod

Seq Number: 3026104 MB Sample Id: 730028-1-BLK Prep Method:

730028-1-BSD

TX1005P

Units

Units

%

%

08.25.17 Date Prep:

> Analysis Flag Date

Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)

<15.0 <15.0

MB

Result

1000 1000

Spike

Amount

118 121

LCS

%Rec

974 1130

730028-1-BKS

LCSD

Result

97 70-135 70-135 113

Limits

19 7

35 35

LCSD Sample Id:

RPD

Limit

mg/kg

08.25.17 18:40

Surrogate

1-Chlorooctane

o-Terphenyl

Parameter

%Rec 110 105

MB MB Flag 1210 LCS LCS %Rec Flag

120

113

LCSD LCSD

Flag

Limits

70-135

70-135

mg/kg

08.25.17 18:40

08.25.17 18:40

Analysis Date 08.25.17 18:40



TRC Solutions, Inc

Jal #3 Field Scrubbers (Open Excavations)

Analytical Method:TPH by SW8015 ModPrep Method:TX1005PSeq Number:3026104Matrix: SoilDate Prep:08.25.17

 Seq Number:
 3026104
 Matrix:
 Soil
 Date Prep:
 08.25.17

 Parent Sample Id:
 561229-001
 MS Sample Id:
 561229-001 S
 MSD Sample Id:
 561229-001 SD

Spike MS MS Limits %RPD **RPD** Parent **MSD MSD** Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 08.25.17 19:40 <15.0 999 1100 110 1090 109 70-135 35 mg/kg 999 70-135 3 35 08.25.17 19:40 Diesel Range Organics (DRO) 1210 109 1170 105 124 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Flag %Rec %Rec Flag Date 1-Chlorooctane 119 114 70-135 % 08.25.17 19:40 o-Terphenyl 104 99 70-135 % 08.25.17 19:40

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Seq Number: 3026156 Matrix: Solid Date Prep: 08.28.17

MB Sample Id: 730048-1-BLK LCS Sample Id: 730048-1-BKS LCSD Sample Id: 730048-1-BSD

LCS LCS %RPD RPD MB Units Spike Limits Analysis **LCSD** LCSD **Parameter** Result Amount Result %Rec %Rec Limit Date Result 0.0994 0.119 70-130 3 35 08.28.17 20:28 Benzene < 0.00199 0.116 117 119 mg/kg Toluene < 0.00199 0.0994 0.113 114 0.115 70-130 2 35 08.28.17 20:28 115 mg/kg 08.28.17 20:28 71-129 Ethylbenzene < 0.00199 0.0994 0.112 113 0.114 114 2 35 mg/kg 08.28.17 20:28 m,p-Xylenes < 0.00398 0.199 0.220 111 0.225 113 70-135 2 35 mg/kg < 0.00199 0.0994 0.106 0.109 71-133 35 08.28.17 20:28 o-Xylene 107 mg/kg

Flag

Flag

LCS LCSD MB MB LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 08.28.17 20:28 1.4-Difluorobenzene 92 97 97 80-120 % 08.28.17 20:28 4-Bromofluorobenzene 80 91 87 80-120 %

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Seq Number:3026246Matrix:SolidDate Prep:08.29.17MB Sample Id:730100-1-BLKLCS Sample Id:730100-1-BKSLCSD Sample Id:730100-1-BSD

MB LCS LCS Limits %RPD **RPD** Units Spike LCSD LCSD Analysis **Parameter** Result Amount Result %Rec Limit Date Result %Rec 08.29.17 09:19 0.115 115 0.120 70-130 35 Benzene < 0.00201 0.100 119 4 mg/kg Toluene < 0.00201 0.100 0.113 113 0.118 117 70-130 4 35 mg/kg 08.29.17 09:19 0.100 08.29.17 09:19 Ethylbenzene < 0.00201 0.114 114 0.120 119 71-129 5 35 mg/kg 0.201 0.224 111 0.236 35 08.29.17 09:19 < 0.00402 70-135 5 m,p-Xylenes 117 mg/kg 08.29.17 09:19 < 0.00201 0.100 0.108 108 0.114 71-133 35 o-Xylene 113 mg/kg

MB LCS LCS LCSD MB LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 1,4-Difluorobenzene 93 80-120 08.29.17 09:19 91 93 % 4-Bromofluorobenzene 84 90 90 80-120 % 08.29.17 09:19

Final 1.000



TRC Solutions, Inc

Jal #3 Field Scrubbers (Open Excavations)

Flag

Flag

Flag

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Seq Number:	3026250	Matrix:	Solid	Date Prep:	08.30.17
MB Sample Id:	730108-1-BLK	LCS Sample Id:	730108-1-BKS	LCSD Sample Id:	730108-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date]
Benzene	< 0.00200	0.0998	0.116	116	0.114	114	70-130	2	35	mg/kg	08.30.17 10:00	
Toluene	< 0.00200	0.0998	0.114	114	0.112	112	70-130	2	35	mg/kg	08.30.17 10:00	
Ethylbenzene	< 0.00200	0.0998	0.115	115	0.113	113	71-129	2	35	mg/kg	08.30.17 10:00	
m,p-Xylenes	< 0.00399	0.200	0.225	113	0.221	110	70-135	2	35	mg/kg	08.30.17 10:00	
o-Xylene	< 0.00200	0.0998	0.109	109	0.107	107	71-133	2	35	mg/kg	08.30.17 10:00	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI			mits	Units	Analysis Date	

 1,4-Difluorobenzene
 93
 91
 84
 80-120
 % 08.30.17 10:00

 4-Bromofluorobenzene
 84
 87
 80
 80-120
 % 08.30.17 10:00

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3026156Matrix:SoilDate Prep:08.28.17

 Seq Number:
 3026156
 Matrix:
 Soil
 Date Prep:
 08.28.17

 Parent Sample Id:
 561227-001
 MS Sample Id:
 561227-001 S
 MSD Sample Id:
 561227-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00202	0.101	0.100	99	0.0962	95	70-130	4	35	mg/kg	08.28.17 21:06
Toluene	< 0.00202	0.101	0.0908	90	0.0865	86	70-130	5	35	mg/kg	08.28.17 21:06
Ethylbenzene	< 0.00202	0.101	0.0785	78	0.0805	80	71-129	3	35	mg/kg	08.28.17 21:06
m,p-Xylenes	< 0.00403	0.202	0.151	75	0.154	76	70-135	2	35	mg/kg	08.28.17 21:06
o-Xylene	< 0.00202	0.101	0.0750	74	0.0786	78	71-133	5	35	mg/kg	08.28.17 21:06

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		94		80-120	%	08.28.17 21:06
4-Bromofluorobenzene	88		84		80-120	%	08.28.17 21:06

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3026246Matrix: SoilDate Prep:08.29.17

Parent Sample Id: 561286-002 MS Sample Id: 561286-002 S MSD Sample Id: 561286-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00364	0.182	0.205	113	0.230	123	70-130	11	35	mg/kg	08.29.17 11:13
Toluene	< 0.00364	0.182	0.197	108	0.202	108	70-130	3	35	mg/kg	08.29.17 11:13
Ethylbenzene	< 0.00364	0.182	0.194	107	0.168	90	71-129	14	35	mg/kg	08.29.17 11:13
m,p-Xylenes	< 0.00727	0.364	0.379	104	0.304	81	70-135	22	35	mg/kg	08.29.17 11:13
o-Xylene	< 0.00364	0.182	0.184	101	0.176	94	71-133	4	35	mg/kg	08.29.17 11:13

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		117		80-120	%	08.29.17 11:13
4-Bromofluorobenzene	88		91		80-120	%	08.29.17 11:13



TRC Solutions, Inc

Jal #3 Field Scrubbers (Open Excavations)

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3026250Matrix:SoilDate Prep:08.30.17Parent Sample Id:561411-004MS Sample Id:561411-004 SMSD Sample Id:561411-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0803	80	0.0761	75	70-130	5	35	mg/kg	08.30.17 10:38	
Toluene	< 0.00202	0.101	0.0760	75	0.0710	70	70-130	7	35	mg/kg	08.30.17 10:38	
Ethylbenzene	< 0.00202	0.101	0.0732	72	0.0662	66	71-129	10	35	mg/kg	08.30.17 10:38	X
m,p-Xylenes	< 0.00403	0.202	0.143	71	0.128	63	70-135	11	35	mg/kg	08.30.17 10:38	X
o-Xvlene	< 0.00202	0.101	0.0724	72	0.0685	68	71-133	6	35	mg/kg	08.30.17 10:38	X

Surrogate	MS MS %Rec Flag	MSD %Rec	MSD Limits Flag	Units	Analysis Date
1,4-Difluorobenzene	103	103	80-120	%	08.30.17 10:38
4-Bromofluorobenzene	98	96	80-120	%	08.30.17 10:38



Stafford, Texas (281-240-4200)

CHAIN OF CUSTODY

San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251) Phoenix, Arizona (480-355-0900)

						The same of
Client / Reporting Information		Proje	Project Information		Analytical	Analytical Information Matrix Codes
TRC Environmental	Proje	Project Name/Number:				W = Water
Company Address: 2057 Commerce Drive Midland, TX 79703	Proje Lea C	Project Location: Lea Co, NM	Project Location:		x t	S = Soil/Sed/Soild GW = Ground Water
Email: Phone No: Ilowry@trcsolutions.com	Invoi ETC I	Invoice To: ETC Field Services, C/O Rose Slade	ose Slade	9-	В	P = Product SW = Surface water
Project Contact: Joel Lowry				m	1	SL= Sludge OW=Ocean/Sea Water
Samplers's Name Joel Lowry	PON	PO Number: SRS Pending		7.6	02	WI = Wipe
	Coll	Collection	Nu	Number of preserved bottles	8	WW= Waste Water
No. Field ID / Point of Collection	Sample Date	Time	Matrix # of # o	2SO4 a0H aHSO4 E0H DNE	BTEX CI	
1 Exc. A TT QG'	es.	10:10		H Z Z M		Field Comments
2 Exc. B TT P 8'	81 617317	-		())	
3 EM. B 55W W	7.51 812317	5	~		, A	
4 Exc. C 7709'	64549 , 10	117 16:52	4		1	
7 6						
0 00						CF:(0-6: -0.2°C)
10						(0-20. +0.2 C)
Turnaround Time (Business days)			Data Deliverable Information	mation		Collected Lellib: 2 /
Same Day TAT 5 Day TAT		Level	Level II Std QC	Level IV (Full Data Pkg	/raw data) Er	Email to Rose and Joel
Next Day EMERGENCY 7 Day TAT		Level	Level III Std QC+ Forms	TRRP Level IV		
2 Day EMERGENCY X Contract TAT	4	Level	Level 3 (CLP Forms)	UST / RG -411		
3 Day EMERGENCY		TRRP	TRRP Checklist			
TAT Starts Day received by Lab, if received by 5:00 pm	5:00 pm					FED.EX / IIDS: Teaching #
Relinquished by Sampler:	TODY MUST BE DOCUM	ENTED BELOW EACH	TIME SAMPLES CHANGE	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		and or or inventigation
	41/57/18	1 Received By:	The state of the s	Relinquished By:	Date Time:	14/2 Received By 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Relinquished by:	Date Time:	Received By:		Relinquished By:	Date Time:	Received By:
Kelinquished by:	Date Time:	Received By:		Custody Seal #	Preserved where applicable	Bate Time: Received By: Custody Seal # Preserved where applicable On ice Cooler Temp. Thermo. Corr. Factor



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc

Date/ Time Received: 08/25/2017 02:00:00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 561286

Temperature Measuring device used: r-8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		3.1
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when relind	quished/ received?	Yes
#12 Chain of Custody agrees with sample	e label(s)?	Yes
#13 Container label(s) legible and intact?		Yes
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	•	Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicate		Yes
#19 All samples received within hold time	e?	Yes
#20 Subcontract of sample(s)?		No
#21 VOC samples have zero headspace	?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by:		Date: <u>08/25/2017</u>
Checklist reviewed by:	Kelsey Brooks	Date: 08/25/2017



Joel Lowry

Jal, NM

Contact:

Project Location:

Certificate of Analysis Summary 565905

TRC Solutions, Inc, Midland, TX

Project Id: Project Id:

Date Received in Lab: Wed Oct-18-17 04:30 pm

Report Date: 19-OCT-17 **Project Manager:** Kelsey Brooks

	Lab Id:	565905-001			
	Field Id:	Exc. B SSWb			
Analysis Requested					
	Depth:	2.5- ft			
	Matrix:	SOIL			
	Sampled:	Oct-18-17 14:45			
DRO-ORO By SW8015B	Extracted:	Oct-18-17 17:00			
	Analyzed:	Oct-19-17 00:08			
	Units/RL:	mg/kg RL			
Diesel Range Organics (DRO)		969 250			
Oil Range Hydrocarbons (ORO)		<250 250			
TPH GRO by EPA 8015 Mod.	Extracted:	Oct-18-17 17:00			
	Analyzed:	Oct-19-17 01:13			
	Units/RL:	mg/kg RL			
TPH-GRO		197 38.8			

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 beest judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Kelsey Brooks Project Manager

Knis Roah

Analytical Report 565905

for TRC Solutions, Inc

Project Manager: Joel Lowry

Jal #3 Field Services

19-OCT-17

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco-Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



19-OCT-17

Project Manager: **Joel Lowry TRC Solutions, Inc**2057 Commerce
Midland, TX 79703

Reference: XENCO Report No(s): **565905**

Jal #3 Field Services
Project Address: Jal, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 565905. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 565905 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Kelsey Brooks

Knus Hoah

Project Manager

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Sample Cross Reference 565905

$TRC\ Solutions, Inc,\ Midland, TX$

Jal #3 Field Services

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Exc. B SSWb	S	10-18-17 14:45	2.5 ft	565905-001

XENCO

CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Jal #3 Field Services

Project ID: Report Date: 19-OCT-17
Work Order Number(s): 565905
Date Received: 10/18/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3030826 DRO-ORO By SW8015B

Surrogate Tricosane, Surrogate n-Triacontane recovered above QC limits. Matrix interferences is

suspected; data confirmed by re-analysis.

Samples affected are: 565899-003 S,565899-003 SD,565905-001.

Page 5 of 10

Final 1.000



TRC Solutions, Inc, Midland, TX

Jal #3 Field Services

Sample Id: Exc. B SSWb Matrix: Soil Date Received:10.18.17 16.30

Lab Sample Id: 565905-001 Date Collected: 10.18.17 14.45 Sample Depth: 2.5 ft

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 10.18.17 17.00 Basis: Wet Weight

Seq Number: 3030826

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	969	250		mg/kg	10.19.17 00.08		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<250	250		mg/kg	10.19.17 00.08	U	10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	680	%	65-144	10.19.17 00.08	**	
n-Triacontane		638-68-6	287	%	46-152	10.19.17 00.08	**	

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 10.18.17 17.00 Basis: Wet Weight

Seq Number: 3030804

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	197	38.8		mg/kg	10.19.17 01.13		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	60-00-4	106	%	76-123	10.19.17 01.13		
a,a,a-Trifluorotoluene	9	8-08-8	98	%	69-120	10.19.17 01.13		

% Moisture:



Flagging Criteria

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

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

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

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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a,a,a-Trifluorotoluene

QC Summary 565905

TRC Solutions, Inc

Jal #3 Field Services

Analytical Method: DRO-ORO By SW8015B SW8015P Prep Method: Seq Number: 3030826 Matrix: Solid Date Prep: 10.19.17

LCS Sample Id: 7632830-1-BKS LCSD Sample Id: 7632830-1-BSD MB Sample Id: 7632830-1-BLK

%RPD MR Spike LCS LCS Limits **RPD** LCSD LCSD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec 10.18.17 17:16 Diesel Range Organics (DRO) <25.0 100 100 100 97.5 98 63-139 3 20 mg/kg

LCS Limits MB MB LCS LCSD LCSD Units Analysis **Surrogate** Flag Flag %Rec %Rec Flag Date %Rec Tricosane 106 112 107 65-144 % 10.18.17 17:16 n-Triacontane 89 88 83 46-152 % 10.18.17 17:16

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Seq Number: 3030826 Matrix: Soil Date Prep: 10.18.17 MS Sample Id: 565899-003 S MSD Sample Id: 565899-003 SD 565899-003 Parent Sample Id:

Parent Spike MS MS Limits %RPD **RPD** Units MSD MSD Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date 10.18.17 22:56 507 20 Diesel Range Organics (DRO) 390 100 117 503 113 63-139 1 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Flag %Rec Flag Date %Rec Tricosane 330 ** 309 ** 65-144 % 10.18.17 22:56 n-Triacontane 215 221 46-152 % 10.18.17 22:56

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B Seq Number: 3030804 Matrix: Solid Date Prep: 10.18.17 LCS Sample Id: MB Sample Id: 7632837-1-BLK 7632837-1-BKS LCSD Sample Id: 7632837-1-BSD

LCS LCS %RPD **RPD** MB Spike LCSD LCSD Limits Units Analysis **Parameter** Result Amount %Rec Limit Result Result %Rec Date

TPH-GRO 20.4 20 10.18.17 20:20 <4.00 20.0 102 22.8 35-129 11 114 mg/kg MB MB LCS LCS LCSD LCSD Limits Units Analysis Surrogate Flag Flag Flag %Rec Date %Rec %Rec 102 87 88 10.18.17 20:20 4-Bromofluorobenzene 76-123 %

99

95

116

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B Seq Number: 3030804 Matrix: Soil Date Prep: 10.18.17 565837-001 S MSD Sample Id: 565837-001 SD MS Sample Id: Parent Sample Id: 565837-001

MS RPD Spike MS %RPD Parent **MSD MSD** Limits Units Analysis **Parameter** Flag Result Amount Result %Rec Limit Date Result %Rec TPH-GRO 20 10.19.17 03:26 2490 990 2610 12 2630 35-129 mg/kg

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag Flag Date %Rec 4-Bromofluorobenzene 104 107 76-123 % 10.19.17 03:26 a,a,a-Trifluorotoluene 110 69-120 10.19.17 03:26 114 %

69-120

%

10.18.17 20:20

Flag

X

CHAIN OF CUSTODY

| Course of this document and relinquishment of samples constitutes a valid purchase order from client Control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per for any losses or expenses incurred by the Clientif such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at \$5 per for any losses or expenses incurred by the Clientif such losses. Thermo. Corr. Factor SL - Sludge OW = Ocean/Sea Water WI = Wipe O = Oil WW = Waste Water A = Air Service Center- Amarillo, TX (806)678-4514 Service Center- Hobbs, NM (575) 392-7550 W = Water S = Soil(Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface Water Field Comments 432-940 515) Matrix Codes Rush Verbils to Soc 50659 Received By: FED-EX / UPS: Tracking # Received By: 202 Xenco Job # Service Center - Baton Rouge, LA (832) 712-8143 Analytical Information Date Time: SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Phoenix, AZ (480) 355-0900 Level IV (Full Data Pkg /raw data) Xenco Quote # HAL VM SIBB IONE Relinquished By: TRRP Level IV UST / RG -411 NEOH Number of preserved bottles 4OSHBN HOP Project Name/Number: Field Scowbles Level II Report with TRRP checklist HS2O4 Data Deliverable Information CONF Acetate San Antonio, TX (210) 509-3334 NaOH/Zn Level III Std QC+ Forms ETL FIELD Services Level 3 (CLP Forms) www.xenco.com Midland, TX (432) 704-5440 HCI # of bottles Level II Std QC Received By: Matrix Jar Dun 2.5 tokelo 2:45 PO Number: Collection Date Time: TAT Starts Day received by Lab, if received by 5:00 pm Sample Depth Lubbock, TX (806) 794-1296 El Paso, TX (915) 585-3443 lowery (Ptresolutions, 100 Contract TAT 5 Day TAT 7 Day TAT Phone No: Field ID / Point of Collection Turnaround Time (Business days) 2057 Commerce XENCO Client / Reporting Information Setting the Standard since 1990 Company Name / Branch Exc. 8 55Wb 506999 Next Day EMERGENCY Retmanished by Sampler Samples's Name: 2 Day EMERGENCY 3 Day EMERGENCY Stafford, TX (281) 240-4200 Same Day TAT Dallas, TX (214) 902-0300 Company Address: Project Contact: 10 ω က ß 9 Š.



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 10/18/2017 04:30:00 PM Air and Metal samples Acceptable Range: Ambient

Work Order #: 565905

Temperature Measuring device used: IR-3

Samp	le Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.3	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cod	oler? N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ rec	eived? Yes	
#10 Chain of Custody agrees with sample labels/m	atrix? Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

Must be o	completed for after-hours de	livery of samples prior to pla	cing in the refrigerator
Analyst:		PH Device/Lot#:	
	Checklist completed by:	Brenda Ward Brenda Ward	Date: <u>10/18/2017</u>
	Checklist reviewed by:	Hunr Hoah Kelsey Brooks	Date: 10/19/2017



Joel Lowry

Lea County NM

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 561489

TRC Solutions, Inc, Midland, TX

Date Received in Lab: Tue Aug-29-17 04:55 pm

Report Date: 05-SEP-17 Project Manager: Kelsey Brooks

Project Name: Jal #3 Field Scrubbers (North BGT)

	Lab Id:	561489-	001	561489-0	002	561489-	003	561489-0	004	561489-0	005	
Analysis Paguastad	Field Id:	N.BGT Floo	or @18'	N. BGT N	sw	N. BGT I	ESW	N. BGT S	SW	N. BGT WSW		
Analysis Requested	Depth:	18- f	t	13- ft		13- ft	t	13- ft		13- ft		
	Matrix:	SOIL	_	SOIL		SOIL	_	SOIL		SOIL		
	Sampled:	Aug-28-17	11:15	Aug-28-17	11:25	Aug-28-17	11:35	Aug-28-17	11:45	Aug-28-17	11:55	
BTEX by EPA 8021B	Extracted:	Sep-05-17	08:30	Sep-05-17	08:30	Sep-05-17	08:30	Sep-01-17	11:00	Sep-05-17 (08:30	
	Analyzed:	Sep-05-17	10:51	Sep-05-17	09:51	Sep-05-17	10:31	Sep-02-17	11:18	Sep-05-17 (09:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene	·	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.0502	0.0502	< 0.00202	0.00202	
Toluene		0.0223	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	0.584	0.0502	< 0.00202	0.00202	
Ethylbenzene		0.0773	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	1.02	0.0502	< 0.00202	0.00202	
m,p-Xylenes		0.0812	0.00398	< 0.00399	0.00399	0.00404	0.00402	4.48	0.100	< 0.00403	0.00403	
o-Xylene		0.160	0.00199	< 0.00200	0.00200	0.00596	0.00201	3.58	0.0502	< 0.00202	0.00202	
Total Xylenes		0.2412	0.00199	< 0.002	0.002	0.01	0.00201	8.06	0.0502	< 0.00202	0.00202	
Total BTEX		0.3408	0.00199	< 0.002	0.002	0.01	0.00201	9.664	0.0502	< 0.00202	0.00202	
Chloride by EPA 300	Extracted:	Sep-01-17	11:00	Sep-01-17	11:00	Sep-01-17	11:00	Sep-01-17	11:00	Sep-01-17	14:25	
	Analyzed:	Sep-01-17	15:26	Sep-01-17	16:06	Sep-01-17	16:16	Sep-01-17	16:27	Sep-01-17	16:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride	·	88.9	5.00	21.7	5.00	61.4	5.00	104	5.00	24.1	5.00	
TPH by SW8015 Mod	Extracted:	Aug-30-17	18:00	Aug-30-17	18:00	Aug-30-17	18:00	Aug-30-17	18:00	Aug-30-17	18:00	
	Analyzed:	Aug-31-17	04:59	Aug-31-17	05:20	Aug-31-17	05:42	Aug-31-17	06:03	Aug-31-17	06:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		26.5	15.0	<15.0	15.0	<15.0	15.0	492	14.9	<15.0	15.0	
Diesel Range Organics (DRO)		345	15.0	<15.0	15.0	190	15.0	1130	14.9	<15.0	15.0	
Oil Range Hydrocarbons (ORO)		110	15.0	<15.0	15.0	53.5	15.0	310	14.9	<15.0	15.0	
Total TPH		481.5	15	<15	15	243.5	15	1932	14.9	<15	15	

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

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

Version: 1.%



Julian Martinez Project Manager

Analytical Report 561489

for TRC Solutions, Inc

Project Manager: Joel Lowry

Jal #3 Field Scrubbers (North BGT)

05-SEP-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





05-SEP-17

Project Manager: **Joel Lowry TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 561489

Jal #3 Field Scrubbers (North BGT)
Project Address: Lea County NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 561489. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 561489 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Julian Martinez

Project Manager

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Sample Cross Reference 561489



TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
N.BGT Floor @18'	S	08-28-17 11:15	18 ft	561489-001
N. BGT NSW	S	08-28-17 11:25	13 ft	561489-002
N. BGT ESW	S	08-28-17 11:35	13 ft	561489-003
N. BGT SSW	S	08-28-17 11:45	13 ft	561489-004
N. BGT WSW	S	08-28-17 11:55	13 ft	561489-005



CASE NARRATIVE

Client Name: TRC Solutions, Inc

Project Name: Jal #3 Field Scrubbers (North BGT)

Project ID: Report Date: 05-SEP-17 Work Order Number(s): 561489 Date Received: 08/29/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3026474 BTEX by EPA 8021B

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

Batch: LBA-3026700 BTEX by EPA 8021B

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

Page 5 of 21





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: N.BGT Floor @18' Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561489-001 Date Collected: 08.28.17 11.15 Sample Depth: 18 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

MNV % Moisture:

Analyst: MNV Date Prep: 09.01.17 11.00 Basis: Wet Weight

Seq Number: 3026481

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	88.9	5.00	mg/kg	09.01.17 15.26		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.30.17 18.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	26.5	15.0		mg/kg	08.31.17 04.59		1
Diesel Range Organics (DRO)	C10C28DRO	345	15.0		mg/kg	08.31.17 04.59		1
Oil Range Hydrocarbons (ORO)	PHCG2835	110	15.0		mg/kg	08.31.17 04.59		1
Total TPH	PHC635	481.5	15		mg/kg	08.31.17 04.59		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	08.31.17 04.59		
o-Terphenyl		84-15-1	110	%	70-135	08.31.17 04.59		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: N.BGT Floor @18' Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561489-001 Date Collected: 08.28.17 11.15 Sample Depth: 18 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: ALJ % Moisture:

Analyst: ALJ Date Prep: 09.05.17 08.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.05.17 10.51	U	1
Toluene	108-88-3	0.0223	0.00199		mg/kg	09.05.17 10.51		1
Ethylbenzene	100-41-4	0.0773	0.00199		mg/kg	09.05.17 10.51		1
m,p-Xylenes	179601-23-1	0.0812	0.00398		mg/kg	09.05.17 10.51		1
o-Xylene	95-47-6	0.160	0.00199		mg/kg	09.05.17 10.51		1
Total Xylenes	1330-20-7	0.2412	0.00199		mg/kg	09.05.17 10.51		1
Total BTEX		0.3408	0.00199		mg/kg	09.05.17 10.51		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	80-120	09.05.17 10.51		
1,4-Difluorobenzene		540-36-3	91	%	80-120	09.05.17 10.51		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: N. BGT NSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561489-002 Date Collected: 08.28.17 11.25 Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: MNV Date Prep: 09.01.17 11.00 Basis: Wet Weight

Seq Number: 3026481

MNV

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 21.7
 5.00
 mg/kg
 09.01.17 16.06
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.30.17 18.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.31.17 05.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.31.17 05.20	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.31.17 05.20	U	1
Total TPH	PHC635	<15	15		mg/kg	08.31.17 05.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	113	%	70-135	08.31.17 05.20		
o-Terphenyl		84-15-1	116	%	70-135	08.31.17 05.20		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: N. BGT NSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561489-002 Date Collected: 08.28.17 11.25 Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

ALJ % Moisture:

Analyst: ALJ Date Prep: 09.05.17 08.30 Basis: Wet Weight

Seq Number: 3026700

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.05.17 09.51	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.05.17 09.51	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.05.17 09.51	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	09.05.17 09.51	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.05.17 09.51	U	1
Total Xylenes	1330-20-7	< 0.002	0.002		mg/kg	09.05.17 09.51	U	1
Total BTEX		< 0.002	0.002		mg/kg	09.05.17 09.51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	93	%	80-120	09.05.17 09.51		
4-Bromofluorobenzene		460-00-4	102	%	80-120	09.05.17 09.51		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: N. BGT ESW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561489-003 Date Collected: 08.28.17 11.35 Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: MNV Date Prep: 09.01.17 11.00 Basis: Wet Weight

Seq Number: 3026481

MNV

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 61.4
 5.00
 mg/kg
 09.01.17 16.16
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.30.17 18.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.31.17 05.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	190	15.0		mg/kg	08.31.17 05.42		1
Oil Range Hydrocarbons (ORO)	PHCG2835	53.5	15.0		mg/kg	08.31.17 05.42		1
Total TPH	PHC635	243.5	15		mg/kg	08.31.17 05.42		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	08.31.17 05.42		
o-Terphenyl		84-15-1	96	%	70-135	08.31.17 05.42		





Wet Weight

TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

09.05.17 08.30

Basis:

Sample Id: N. BGT ESW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561489-003 Date Collected: 08.28.17 11.35 Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Date Prep:

Tech: ALJ % Moisture:

Seq Number: 3026700

Analyst:

ALJ

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	09.05.17 10.31	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	09.05.17 10.31	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	09.05.17 10.31	U	1
m,p-Xylenes	179601-23-1	0.00404	0.00402		mg/kg	09.05.17 10.31		1
o-Xylene	95-47-6	0.00596	0.00201		mg/kg	09.05.17 10.31		1
Total Xylenes	1330-20-7	0.01	0.00201		mg/kg	09.05.17 10.31		1
Total BTEX		0.01	0.00201		mg/kg	09.05.17 10.31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	91	%	80-120	09.05.17 10.31		
4-Bromofluorobenzene		460-00-4	102	%	80-120	09.05.17 10.31		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: N. BGT SSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561489-004 Date Collected: 08.28.17 11.45 Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: MNV Date Prep: 09.01.17 11.00 Basis: Wet Weight

Seq Number: 3026481

MNV

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 104
 5.00
 mg/kg
 09.01.17 16.27
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.30.17 18.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	492	14.9		mg/kg	08.31.17 06.03		1
Diesel Range Organics (DRO)	C10C28DRO	1130	14.9		mg/kg	08.31.17 06.03		1
Oil Range Hydrocarbons (ORO)	PHCG2835	310	14.9		mg/kg	08.31.17 06.03		1
Total TPH	PHC635	1932	14.9		mg/kg	08.31.17 06.03		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	08.31.17 06.03		
o-Terphenyl		84-15-1	97	%	70-135	08.31.17 06.03		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: N. BGT SSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561489-004 Date Collected: 08.28.17 11.45 Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

Analyst: JUM Date Prep: 09.01.17 11.00 Basis: Wet Weight

Seq Number: 3026474

ALJ

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0502	0.0502		mg/kg	09.02.17 11.18	U	25
Toluene	108-88-3	0.584	0.0502		mg/kg	09.02.17 11.18		25
Ethylbenzene	100-41-4	1.02	0.0502		mg/kg	09.02.17 11.18		25
m,p-Xylenes	179601-23-1	4.48	0.100		mg/kg	09.02.17 11.18		25
o-Xylene	95-47-6	3.58	0.0502		mg/kg	09.02.17 11.18		25
Total Xylenes	1330-20-7	8.06	0.0502		mg/kg	09.02.17 11.18		25
Total BTEX		9.664	0.0502		mg/kg	09.02.17 11.18		25
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	80-120	09.02.17 11.18		
1,4-Difluorobenzene		540-36-3	107	%	80-120	09.02.17 11.18		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: N. BGT WSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561489-005 Date Collected: 08.28.17 11.55 Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: MNV Date Prep: 09.01.17 14.25 Basis: Wet Weight

Seq Number: 3026651

MNV

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 24.1
 5.00
 mg/kg
 09.01.17 16.37
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.30.17 18.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	08.31.17 06.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	08.31.17 06.23	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	08.31.17 06.23	U	1
Total TPH	PHC635	<15	15		mg/kg	08.31.17 06.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	08.31.17 06.23		
o-Terphenyl		84-15-1	107	%	70-135	08.31.17 06.23		





Wet Weight

TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: N. BGT WSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561489-005 Date Collected: 08.28.17 11.55 Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Date Prep:

% Moisture:

Tech: ALJ ALJ Analyst: 09.05.17 08.30 Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.05.17 09.32	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.05.17 09.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	94	%	80-120	09.05.17 09.32		
4-Bromofluorobenzene		460-00-4	104	%	80-120	09.05.17 09.32		



Flagging Criteria



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

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

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

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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2525 W. Huntington Dr. - Suite 102, Tempe AZ 85282 (602) 437-0330



QC Summary 561489

TRC Solutions, Inc

Jal #3 Field Scrubbers (North BGT)

Analytical Method:	Chloride by EPA 300		Prep Method:	E300P
Seq Number:	3026481	Matrix: Solid	Date Prep:	09.01.17

MB Sample Id: 730241-1-BLK LCS Sample Id: 730241-1-BKS LCSD Sample Id: 730241-1-BSD

MB LCS LCS Limits %RPD RPD Spike LCSD LCSD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec Chloride 20 09.01.17 12:51 < 5.00 250 247 99 254 102 90-110 3 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Seq Number:3026651Matrix:SolidDate Prep:09.01.17MB Sample Id:730327-1-BLKLCS Sample Id:730327-1-BKSLCSD Sample Id:730327-1-BSD

MB LCS LCS Limits %RPD RPD Spike LCSD LCSD Units Analysis Flag **Parameter** Result Amount Result %Rec Limit Date Result %Rec

Chloride <5.00 250 249 100 249 100 90-110 0 20 mg/kg 09.01.17 20:31

Analytical Method: Chloride by EPA 300 Prep Method: E300P

 Seq Number:
 3026481
 Matrix:
 Soil
 Date Prep:
 09.01.17

 Parent Sample Id:
 561490-005
 MS Sample Id:
 561490-005 S
 MSD Sample Id:
 561490-005 SD

MS **RPD** Parent Spike MS **MSD MSD** Limits %RPD Units Analysis **Parameter** Result Limit Date Result %Rec Amount

 Result
 Amount
 Result
 %Rec
 Result
 %Rec
 Limit
 Date

 Chloride
 22.5
 250
 254
 93
 254
 93
 90-110
 0
 20
 mg/kg
 09.01.17 15:06

Flag

E300P

E300P

Prep Method:

Analytical Method: Chloride by EPA 300

 Seq Number:
 3026481
 Matrix:
 Soil
 Date Prep:
 09.01.17

 Parent Sample Id:
 561776-001
 MS Sample Id:
 561776-001 S
 MSD Sample Id:
 561776-001 SD

RPD MS %RPD Parent Spike MS MSD Limits Units Analysis **MSD** Flag **Parameter** Result Limit Result Amount %Rec Date Result %Rec Chloride 30.2 92 0 20 09.01.17 12:20 250 260 261 92 90-110 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method: E300P

 Seq Number:
 3026651
 Matrix:
 Soil
 Date Prep:
 09.01.17

 Parent Sample Id:
 561317-002
 MS Sample Id:
 561317-002 SD
 MSD Sample Id:
 561317-002 SD

Parent Spike MS MS MSD Limits %RPD **RPD** Units Analysis **MSD** Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec

Chloride 1180 245 1410 94 1410 94 90-110 0 20 mg/kg 09.01.17 21:02

Analytical Method: Chloride by EPA 300 Prep Method:

Seq Number: 3026651 Matrix: Soil Date Prep: 09.01.17

Parent Sample Id: 561526-001 MS Sample Id: 561526-001 S MSD Sample Id: 561526-001 SD

Parent Spike MS MS Limits %RPD **RPD** Units Analysis MSD MSD Flag **Parameter** Result %Rec Limit Date Result Amount Result %Rec 459 106 0 20 09.01.17 23:27 Chloride 199 246 458 105 90-110 mg/kg



QC Summary 561489

TRC Solutions, Inc

Jal #3 Field Scrubbers (North BGT)

Analytical Method:TPH by SW8015 ModPrep Method:TX1005PSeq Number:3026607Matrix: SolidDate Prep:08.30.17

MB Sample Id: 730145-1-BLK LCS Sample Id: 730145-1-BSD LCSD Sample Id: 730145-1-BSD

MB Spike LCS LCS Limits %RPD **RPD** LCSD LCSD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 70-135 09.05.17 09:38 <15.0 1000 876 88 846 85 3 35 mg/kg 1050 105 1040 70-135 35 09.05.17 09:38 Diesel Range Organics (DRO) 1000 104 <15.0 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** Flag %Rec %Rec Flag %Rec Flag Date 1-Chlorooctane 100 112 109 70-135 % 09.05.17 09:38 o-Terphenyl 103 101 97 70-135 % 09.05.17 09:38

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

 Seq Number:
 3026607
 Matrix:
 Soil
 Date Prep:
 08.30.17

 Parent Sample Id:
 561470-001
 MS Sample Id:
 561470-001 S
 MSD Sample Id:
 561470-001 SD

MS MS %RPD RPD Limits Units Parent Spike Analysis **MSD MSD Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <15.0 998 924 93 880 70-135 5 35 09.05.17 09:38 88 mg/kg 09.05.17 09:38 Diesel Range Organics (DRO) 25.6 998 1020 100 1060 70-135 4 35 104 mg/kg

Flag

Flag

MSD MS MS **MSD** Limits Units Analysis **Surrogate** %Rec Flag Flag Date %Rec 1-Chlorooctane 105 106 70-135 09.05.17 09:38 % o-Terphenyl 97 95 70-135 % 09.05.17 09:38

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3026474Matrix: SolidDate Prep:09.01.17

 MB Sample Id:
 730240-1-BLK
 Matrix:
 Solid
 Date Prep:
 09.01.17

 LCS Sample Id:
 730240-1-BKS
 LCSD Sample Id:
 730240-1-BSD

%RPD RPD LCS LCS Units MB Spike LCSD Limits Analysis LCSD **Parameter** Result Amount Result %Rec %Rec Limit Date Result 09.01.17 11:55 Benzene 0.100 0.101 101 0.106 70-130 5 35 < 0.00200 106 mg/kg 70-130 35 09.01.17 11:55 Toluene < 0.00200 0.100 0.100 100 0.105 105 5 mg/kg 0.106 Ethylbenzene 0.102 102 35 09.01.17 11:55 < 0.00200 0.100 106 71 - 1294 mg/kg 09.01.17 11:55 0.200 0.198 99 0.207 104 70-135 35 m,p-Xylenes < 0.00400 4 mg/kg 09.01.17 11:55 o-Xylene < 0.00200 0.100 0.0972 97 0.102 102 71-133 5 35 mg/kg

MB LCS LCS LCSD Units Analysis MB LCSD Limits **Surrogate** %Rec Flag Date %Rec Flag %Rec Flag 1,4-Difluorobenzene 89 94 95 80-120 % 09.01.17 11:55 4-Bromofluorobenzene 93 101 103 80-120 09.01.17 11:55 %



QC Summary 561489

TRC Solutions, Inc

Jal #3 Field Scrubbers (North BGT)

Flag

Flag

Flag

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3026700Matrix:SolidDate Prep:09.05.17MB Sample Id:730377-1-BLKLCS Sample Id:730377-1-BKSLCSD Sample Id:730377-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.104	104	0.103	103	70-130	1	35	mg/kg	09.05.17 07:57
Toluene	< 0.00200	0.100	0.102	102	0.101	101	70-130	1	35	mg/kg	09.05.17 07:57
Ethylbenzene	< 0.00200	0.100	0.101	101	0.100	100	71-129	1	35	mg/kg	09.05.17 07:57
m,p-Xylenes	< 0.00401	0.200	0.198	99	0.196	98	70-135	1	35	mg/kg	09.05.17 07:57
o-Xylene	< 0.00200	0.100	0.0952	95	0.0945	95	71-133	1	35	mg/kg	09.05.17 07:57

MB LCSD LCS LCS Units Analysis MB LCSD Limits **Surrogate** Date %Rec Flag %Rec Flag Flag %Rec 93 97 96 80-120 09.05.17 07:57 1,4-Difluorobenzene % 99 105 103 80-120 09.05.17 07:57 4-Bromofluorobenzene %

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

 Seq Number:
 3026474
 Matrix:
 Soil
 Date Prep:
 09.01.17

 Parent Sample Id:
 561776-001
 MS Sample Id:
 561776-001 S
 MSD Sample Id:
 561776-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0909	91	0.0922	92	70-130	1	35	mg/kg	09.01.17 12:31
Toluene	< 0.00200	0.100	0.0857	86	0.0894	89	70-130	4	35	mg/kg	09.01.17 12:31
Ethylbenzene	< 0.00200	0.100	0.0842	84	0.0865	87	71-129	3	35	mg/kg	09.01.17 12:31
m,p-Xylenes	< 0.00400	0.200	0.164	82	0.167	84	70-135	2	35	mg/kg	09.01.17 12:31
o-Xylene	< 0.00200	0.100	0.0836	84	0.0831	83	71-133	1	35	mg/kg	09.01.17 12:31

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		97		80-120	%	09.01.17 12:31
4-Bromofluorobenzene	109		110		80-120	%	09.01.17 12:31

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3026700Matrix:SoilDate Prep:09.05.17

Parent Sample Id: 561383-008 MS Sample Id: 561383-008 S MSD Sample Id: 561383-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.0998	0.103	103	0.104	104	70-130	1	35	mg/kg	09.05.17 16:23
Toluene	< 0.00200	0.0998	0.100	100	0.101	101	70-130	1	35	mg/kg	09.05.17 16:23
Ethylbenzene	< 0.00200	0.0998	0.0969	97	0.0982	98	71-129	1	35	mg/kg	09.05.17 16:23
m,p-Xylenes	< 0.00399	0.200	0.189	95	0.191	96	70-135	1	35	mg/kg	09.05.17 16:23
o-Xylene	< 0.00200	0.0998	0.0918	92	0.0932	93	71-133	2	35	mg/kg	09.05.17 16:23

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		106		80-120	%	09.05.17 16:23
4-Bromofluorobenzene	114		116		80-120	%	09.05.17 16:23



Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

					WW.	www.xenco.com	I I					H					-			J	6	LXL	2		
Client / Reporting Information				Projec	i Informa								1	≥	Analytical Information	Infon	nation							Matrix Codes	
Company Name / Branch: TRC Environmental		Proje	Project Name/Number:	mber	5	a of				1		4					_						5	W = Water	
Company Address: 2057 Commerce Drive Midland, TX 79703		Proje Lea C	Project Location: Lea Co, NM	and a solution of	NOT IT DO																		ວດທ	S = Soil/Sed/Soild GW =Ground Water	
Email: jlowry@trcsolutions.com	Phone No:	Invoi ETC I	Invoice To: ETC Field Services, CO Rose Slade	s, CO Rose	Slade			1															ם מ	P = Product SW = Surface water	
Project Contact: Joel Lowry																		_					504	OW =Ocean/Sea Water	67
Samplers's Name Joel Lowry			myorce, consult Rose Stage for AFE No.	vose stage	TOT AFE NO							Ex	0				_						0.	O = Oil	
		Col	Collection		4		Numi	er of n	reserve	d holl	5	5 M	E 30	21B			-						. 5	WW= Waste Water	
No. Field ID / Point of Collection	ection Sample					# of	aOH/Zn cetate	aOH/Zn setate NO3	SO4	HSO4	OH 8	PH 801	hloride l	TEX 802										A = AII	
1 N. BGT Floor @ 18'	18.		8/28/2017	50	S Manix	1 H		-	-	Na	-	+	C	В		1	+	+	+				Field	Field Comments	
2 N. BGT NSW	13:	8/28	8/28/2017	305		4			+		+	< >	< >	< >	1	1	+	t	1						
3 N. BGT ESW	13'	8/28	8/28/2017	1135 s	-	-			+		+	×	×	× :		+	+	+			1				
	13'	8/28	8/28/2017	1145 s		-4					+	×	×	×		-	+	+	1						
5 N. BGT WSW	13'	8/28	8/28/2017	1155 s		4			+		+	×	×	×		-	-	+	1						
7							5				+					\perp	+	+ 1							
0 8											++					H	\mathbf{H}	Ħ							- 1
10		1	4		1	+					+	T	1			+	H	+							
Turnaround Time (Business days)					Data	Deliverab	Data Deliverable Information	ation	1		-					2	Notes:	Ė							
Same Day TAT	5 Day TAT			Level	Level II Std QC			Щ.	Level IV (Full Data Pkg /raw data)	(Full D	ata Pk	g /raw	data)		m	mail R	ose S	ade ai	Email Rose Slade and Joel Lowry	Lowr					
Next Day EMERGENCY	7 Day TAT			Level	Level III Std QC+ Forms	+ Forms			TRRP Level IV	vel IV															
	x Contract TAT		П	Level	Level 3 (CLP Forms)	orms)			UST / RG -411	3-411						П	. 1	Temp:	1	9			IR ID	IR ID:R-8	1
3 Day EMERGENCY			П	TRRP Checklist	Checklist						Ш				4		J	SF:(CF:(0-6: -0.2°C)	-0.2	c				1
TAT Starts Day received by Lab, if received by 5:00 pm	if received by 5:00 pm			>		2		1							TI	FED-EX / U			(6-23: +0.2°C)	3: +().2°(0	1		1
Relinquished by Sampler:	Date Time: Received By: Received By: Relinquished By:	THE DOCUM	MENTED BE	Received By	TIME SAN	IPLES OH	ANGE PC	Re	ssion, including o	hed By	COURI	ER DELIVERY	IVERY	Date Time:				Cor	Corrected Temp:	T be	emp	-	/		
Relynquished by:	Date Time	lime:	Re	Received By:	2	11011	1	Re	Relinquished By:	hed By				Date Time:	me:		Rec	Received By:	Ву:						
Reininguished by: Date Time: Received By: Custody Seal # Preserved where applicable On ice Cooler Temp. Thermo. Corr. Factor S	Date Time:	ime:	5 Re	Received By:				<u>و</u> 4	Custody Seal #	seal #	1		Pres	Preserved where applicable	here a	plicat	4		On Ice	6	Cool	Cooler Temp.	p. Th	Thermo. Corr. Factor	



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc

Date/ Time Received: 08/29/2017 04:55:00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 561489

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		1.7
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ntainer/ cooler?	N/A
#5 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when relind	quished/ received?	Yes
#12 Chain of Custody agrees with sampl	e label(s)?	Yes
#13 Container label(s) legible and intact?	?	Yes
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?		Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicate	ed test(s)?	Yes
#19 All samples received within hold time	e?	Yes
#20 Subcontract of sample(s)?		No
#21 VOC samples have zero headspace	?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by:		Date: <u>08/30/2017</u>
Checklist reviewed by:	Kelsey Brooks	Date: 08/30/2017



Certificate of Analysis Summary 561490

TRC Solutions, Inc, Midland, TX

Project Name: Jal #3 Field Scrubbers (North BGT)



Project Id: Contact:

Project Location:

Joel Lowry

Lea County NM

Date Received in Lab: Tue Aug-29-17 04:55 pm

Report Date: 05-SEP-17

Project Manager: Kelsey Brooks

					1						1	
	Lab Id:	561490-0	001	561490-0	02	561490-0	03	561490-0	004	561490-0	05	
Analysis Requested	Field Id:	S.BGT Floor	@18'	S. BGT N	sw	S. BGT E	SW	S. BGT S	SW	S. BGT W	SW	
Anatysis Requested	Depth:	18- ft		13- ft		13- ft		13- ft		13- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Aug-28-17	13:20	Aug-28-17	13:30	Aug-28-17	13:40	Aug-28-17	13:50	Aug-28-17	14:00	
BTEX by EPA 8021B	Extracted:	Sep-01-17	11:00	Sep-01-17 1	1:00	Sep-01-17 1	1:00	Sep-01-17	11:00	Sep-05-17 (08:30	
	Analyzed:	Sep-02-17	10:21	Sep-02-17 1	1:56	Sep-02-17 1	2:15	Sep-02-17	11:37	Sep-05-17 1	2:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.202	0.202	< 0.100	0.100	15.6	0.199	< 0.0499	0.0499	< 0.101	0.101	
Toluene		0.443	0.202	4.33	0.100	38.6	0.199	< 0.0499	0.0499	1.90	0.101	
Ethylbenzene		0.661	0.202	6.80	0.100	20.4	0.199	1.04	0.0499	3.23	0.101	
m,p-Xylenes		4.46	0.404	23.7	0.201	50.8	0.398	5.78	0.0998	33.9	0.202	
o-Xylene		2.03	0.202	5.30	0.100	9.64	0.199	2.96	0.0499	7.05	0.101	
Total Xylenes		6.49	0.202	29	0.1	60.44	0.199	8.74	0.0499	40.95	0.101	
Total BTEX		7.594	0.202	40.13	0.1	135.04	0.199	9.78	0.0499	46.08	0.101	
Chloride by EPA 300	Extracted:	Sep-01-17	11:00	Sep-01-17 1	1:00	Sep-01-17 1	1:00	Sep-01-17	11:00	Sep-01-17 1	1:00	
	Analyzed:	Sep-01-17	14:14	Sep-01-17 1	4:24	Sep-01-17 1	4:35	Sep-01-17	14:45	Sep-01-17 1	4:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		105	5.00	313	5.00	95.6	5.00	62.2	5.00	22.5	5.00	
TPH by SW8015 Mod	Extracted:	Aug-30-17	10:00	Aug-30-17	0:00	Aug-30-17	10:00	Aug-30-17	10:00	Aug-31-17	16:00	
	Analyzed:	Aug-31-17	07:04	Sep-05-17 (9:35	Sep-05-17 (9:35	Sep-05-17 (09:35	Sep-01-17 (1:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		264	15.0	1290	74.9	2300	74.8	335	14.9	2540	74.9	
Diesel Range Organics (DRO)		979	15.0	3160	74.9	15400	74.8	577	14.9	2220	74.9	
Oil Range Hydrocarbons (ORO)		249	15.0	486	74.9	2500	74.8	65.5	14.9	671	74.9	
Total TPH		1492	15	4936	74.9	20200	74.8	977.5	14.9	5431	74.9	

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

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



Julian Martinez Project Manager

Analytical Report 561490

for TRC Solutions, Inc

Project Manager: Joel Lowry

Jal #3 Field Scrubbers (North BGT)

05-SEP-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





05-SEP-17

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 561490

Jal #3 Field Scrubbers (North BGT)
Project Address: Lea County NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 561490. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 561490 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Julian Martinez

Project Manager

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

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 561490



$TRC\ Solutions,\ Inc,\ Midland,\ TX$

Jal #3 Field Scrubbers (North BGT)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S.BGT Floor @18'	S	08-28-17 13:20	18 ft	561490-001
S. BGT NSW	S	08-28-17 13:30	13 ft	561490-002
S. BGT ESW	S	08-28-17 13:40	13 ft	561490-003
S. BGT SSW	S	08-28-17 13:50	13 ft	561490-004
S. BGT WSW	S	08-28-17 14:00	13 ft	561490-005



CASE NARRATIVE

Client Name: TRC Solutions, Inc

Project Name: Jal #3 Field Scrubbers (North BGT)

Project ID: Report Date: 05-SEP-17 Work Order Number(s): 561490 Date Received: 08/29/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3026474 BTEX by EPA 8021B

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

Batch: LBA-3026700 BTEX by EPA 8021B

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

Page 5 of 22

Final 1.000





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: S.BGT Floor @18' Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561490-001 Date Collected: 08.28.17 13.20 Sample Depth: 18 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

MNV % Moisture:

Analyst: MNV Date Prep: 09.01.17 11.00 Basis: Wet Weight

Seq Number: 3026481

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 105
 5.00
 mg/kg
 09.01.17 14.14
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.30.17 10.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	264	15.0		mg/kg	08.31.17 07.04		1
Diesel Range Organics (DRO)	C10C28DRO	979	15.0		mg/kg	08.31.17 07.04		1
Oil Range Hydrocarbons (ORO)	PHCG2835	249	15.0		mg/kg	08.31.17 07.04		1
Total TPH	PHC635	1492	15		mg/kg	08.31.17 07.04		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	08.31.17 07.04		
o-Terphenyl		84-15-1	102	%	70-135	08.31.17 07.04		





Wet Weight

TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

09.01.17 11.00

Basis:

Sample Id: S.BGT Floor @18' Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561490-001 Date Collected: 08.28.17 13.20 Sample Depth: 18 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Date Prep:

Tech: ALJ % Moisture:

Seq Number: 3026474

Analyst:

JUM

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.202	0.202		mg/kg	09.02.17 10.21	U	100
Toluene	108-88-3	0.443	0.202		mg/kg	09.02.17 10.21		100
Ethylbenzene	100-41-4	0.661	0.202		mg/kg	09.02.17 10.21		100
m,p-Xylenes	179601-23-1	4.46	0.404		mg/kg	09.02.17 10.21		100
o-Xylene	95-47-6	2.03	0.202		mg/kg	09.02.17 10.21		100
Total Xylenes	1330-20-7	6.49	0.202		mg/kg	09.02.17 10.21		100
Total BTEX		7.594	0.202		mg/kg	09.02.17 10.21		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	113	%	80-120	09.02.17 10.21		
1,4-Difluorobenzene		540-36-3	81	%	80-120	09.02.17 10.21		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: S. BGT NSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561490-002 Date Collected: 08.28.17 13.30 Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

Analyst: MNV Date Prep: 09.01.17 11.00 Basis: Wet Weight

Seq Number: 3026481

MNV

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 313
 5.00
 mg/kg
 09.01.17 14.24
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM

Analyst: ARM Date Prep: 08.30.17 10.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1290	74.9		mg/kg	09.05.17 09.35		5
Diesel Range Organics (DRO)	C10C28DRO	3160	74.9		mg/kg	09.05.17 09.35		5
Oil Range Hydrocarbons (ORO)	PHCG2835	486	74.9		mg/kg	09.05.17 09.35		5
Total TPH	PHC635	4936	74.9		mg/kg	09.05.17 09.35		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	09.05.17 09.35		
o-Terphenyl		84-15-1	125	%	70-135	09.05.17 09.35		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: S. BGT NSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561490-002 Date Collected: 08.28.17 13.30 Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: ALJ % Moisture:

Analyst: JUM Date Prep: 09.01.17 11.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.100	0.100		mg/kg	09.02.17 11.56	U	50
Toluene	108-88-3	4.33	0.100		mg/kg	09.02.17 11.56		50
Ethylbenzene	100-41-4	6.80	0.100		mg/kg	09.02.17 11.56		50
m,p-Xylenes	179601-23-1	23.7	0.201		mg/kg	09.02.17 11.56		50
o-Xylene	95-47-6	5.30	0.100		mg/kg	09.02.17 11.56		50
Total Xylenes	1330-20-7	29	0.1		mg/kg	09.02.17 11.56		50
Total BTEX		40.13	0.1		mg/kg	09.02.17 11.56		50
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	87	%	80-120	09.02.17 11.56		
4-Bromofluorobenzene		460-00-4	106	%	80-120	09.02.17 11.56		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: S. BGT ESW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561490-003 Date Collected: 08.28.17 13.40 Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

Analyst: MNV Date Prep: 09.01.17 11.00 Basis: Wet Weight

Seq Number: 3026481

MNV

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 95.6
 5.00
 mg/kg
 09.01.17 14.35
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM

Analyst: ARM Date Prep: 08.30.17 10.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2300	74.8		mg/kg	09.05.17 09.35		5
Diesel Range Organics (DRO)	C10C28DRO	15400	74.8		mg/kg	09.05.17 09.35		5
Oil Range Hydrocarbons (ORO)	PHCG2835	2500	74.8		mg/kg	09.05.17 09.35		5
Total TPH	PHC635	20200	74.8		mg/kg	09.05.17 09.35		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-135	09.05.17 09.35		
o-Terphenyl		84-15-1	86	%	70-135	09.05.17 09.35		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: S. BGT ESW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561490-003 Date Collected: 08.28.17 13.40 Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: ALJ % Moisture:

Analyst: JUM Date Prep: 09.01.17 11.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	15.6	0.199		mg/kg	09.02.17 12.15		100
Toluene	108-88-3	38.6	0.199		mg/kg	09.02.17 12.15		100
Ethylbenzene	100-41-4	20.4	0.199		mg/kg	09.02.17 12.15		100
m,p-Xylenes	179601-23-1	50.8	0.398		mg/kg	09.02.17 12.15		100
o-Xylene	95-47-6	9.64	0.199		mg/kg	09.02.17 12.15		100
Total Xylenes	1330-20-7	60.44	0.199		mg/kg	09.02.17 12.15		100
Total BTEX		135.04	0.199		mg/kg	09.02.17 12.15		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	90	%	80-120	09.02.17 12.15		
1,4-Difluorobenzene		540-36-3	117	%	80-120	09.02.17 12.15		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: S. BGT SSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561490-004 Date Collected: 08.28.17 13.50 Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

Analyst: MNV Date Prep: 09.01.17 11.00 Basis: Wet Weight

Seq Number: 3026481

MNV

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 62.2
 5.00
 mg/kg
 09.01.17 14.45
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM

Analyst: ARM Date Prep: 08.30.17 10.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	335	14.9		mg/kg	09.05.17 09.35		1
Diesel Range Organics (DRO)	C10C28DRO	577	14.9		mg/kg	09.05.17 09.35		1
Oil Range Hydrocarbons (ORO)	PHCG2835	65.5	14.9		mg/kg	09.05.17 09.35		1
Total TPH	PHC635	977.5	14.9		mg/kg	09.05.17 09.35		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	09.05.17 09.35		
o-Terphenyl		84-15-1	108	%	70-135	09.05.17 09.35		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: S. BGT SSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561490-004 Date Collected: 08.28.17 13.50 Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: ALJ % Moisture:

Analyst: JUM Date Prep: 09.01.17 11.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0499	0.0499		mg/kg	09.02.17 11.37	U	25
Toluene	108-88-3	< 0.0499	0.0499		mg/kg	09.02.17 11.37	U	25
Ethylbenzene	100-41-4	1.04	0.0499		mg/kg	09.02.17 11.37		25
m,p-Xylenes	179601-23-1	5.78	0.0998		mg/kg	09.02.17 11.37		25
o-Xylene	95-47-6	2.96	0.0499		mg/kg	09.02.17 11.37		25
Total Xylenes	1330-20-7	8.74	0.0499		mg/kg	09.02.17 11.37		25
Total BTEX		9.78	0.0499		mg/kg	09.02.17 11.37		25
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	80-120	09.02.17 11.37		
1,4-Difluorobenzene		540-36-3	101	%	80-120	09.02.17 11.37		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: S. BGT WSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561490-005 Date Collected: 08.28.17 14.00 Sample Depth: 13 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

MNV % Moisture:

Analyst: MNV Date Prep: 09.01.17 11.00 Basis: Wet Weight

Seq Number: 3026481

Tech:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 22.5
 5.00
 mg/kg
 09.01.17 14.55
 1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 08.31.17 16.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2540	74.9		mg/kg	09.01.17 01.07		5
Diesel Range Organics (DRO)	C10C28DRO	2220	74.9		mg/kg	09.01.17 01.07		5
Oil Range Hydrocarbons (ORO)	PHCG2835	671	74.9		mg/kg	09.01.17 01.07		5
Total TPH	PHC635	5431	74.9		mg/kg	09.01.17 01.07		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	121	%	70-135	09.01.17 01.07		
o-Terphenyl		84-15-1	97	%	70-135	09.01.17 01.07		





TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers (North BGT)

Sample Id: S. BGT WSW Matrix: Soil Date Received:08.29.17 16.55

Lab Sample Id: 561490-005 Date Collected: 08.28.17 14.00 Sample Depth: 13 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: ALJ % Moisture:

Analyst: ALJ Date Prep: 09.05.17 08.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.101	0.101		mg/kg	09.05.17 12.26	U	50
Toluene	108-88-3	1.90	0.101		mg/kg	09.05.17 12.26		50
Ethylbenzene	100-41-4	3.23	0.101		mg/kg	09.05.17 12.26		50
m,p-Xylenes	179601-23-1	33.9	0.202		mg/kg	09.05.17 12.26		50
o-Xylene	95-47-6	7.05	0.101		mg/kg	09.05.17 12.26		50
Total Xylenes	1330-20-7	40.95	0.101		mg/kg	09.05.17 12.26		50
Total BTEX		46.08	0.101		mg/kg	09.05.17 12.26		50
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	80	%	80-120	09.05.17 12.26		
4-Bromofluorobenzene		460-00-4	88	%	80-120	09.05.17 12.26		



Flagging Criteria



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

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

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

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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TRC Solutions, Inc

Jal #3 Field Scrubbers (North BGT)

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Seq Number: 3026481 Matrix: Solid Date Prep: 09.01.17 LCS Sample Id: 730241-1-BKS LCSD Sample Id: 730241-1-BSD MB Sample Id: 730241-1-BLK

LCS MB Spike LCS Limits %RPD **RPD** LCSD LCSD Units Analysis Flag **Parameter** Result Result Limit Date Amount %Rec %Rec Result

Chloride 254 90-110 20 09.01.17 12:51 < 5.00 250 247 99 102 3 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3026481 Matrix: Soil Date Prep: 09.01.17

MS Sample Id: 561490-005 S 561490-005 SD Parent Sample Id: 561490-005 MSD Sample Id:

Parent MS MS Limits %RPD RPD Units Spike **MSD** MSD Analysis Flag **Parameter** Result Amount Result %Rec Limit Date Result %Rec

Chloride 22.5 250 254 93 254 93 90-110 0 20 mg/kg 09.01.17 15:06

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3026481 Matrix: Soil Date Prep: 09.01.17

561776-001 S MS Sample Id: MSD Sample Id: 561776-001 SD Parent Sample Id: 561776-001

RPD MS Parent Spike MS MSD **MSD** Limits %RPD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec 20 09.01.17 12:20 Chloride 30.2 250 260 92 261 92 90-110 0 mg/kg

Analytical Method: TPH by SW8015 Mod

TX1005P Prep Method: Seq Number: 3026606 Matrix: Solid 08.30.17 Date Prep:

LCS Sample Id: 730144-1-BKS LCSD Sample Id: 730144-1-BSD MB Sample Id: 730144-1-BLK

RPD LCS %RPD MB Spike LCS LCSD Limits Units Analysis LCSD Flag **Parameter** Limit Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 08.30.17 12:59 1000 878 88 915 92 70-135 4 35 <15.0 mg/kg 70-135 08.30.17 12:59 1000 1060 106 1070 107 1 35 Diesel Range Organics (DRO) <15.0 mg/kg

MB MB LCS LCS LCSD Limits Units LCSD Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 08.30.17 12:59 1-Chlorooctane 111 116 121 70-135 % 106 70-135 08.30.17 12:59 o-Terphenyl 115 113 %



TRC Solutions, Inc

Jal #3 Field Scrubbers (North BGT)

Analytical Method:TPH by SW8015 ModPrep Method:TX1005PSeq Number:3026608Matrix: SolidDate Prep:08.31.17

MB Sample Id: 730183-1-BLK LCS Sample Id: 730183-1-BKS LCSD Sample Id: 730183-1-BSD

MB Spike LCS LCS Limits %RPD **RPD** LCSD LCSD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 70-135 09.05.17 09:41 <15.0 1000 839 84 895 90 6 35 mg/kg Diesel Range Organics (DRO) 1050 105 1040 70-135 35 09.05.17 09:41 1000 104 <15.0 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** Flag %Rec %Rec Flag %Rec Flag Date 1-Chlorooctane 102 103 103 70-135 % 09.05.17 09:41 o-Terphenyl 103 99 105 70-135 % 09.05.17 09:41

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

 Seq Number:
 3026606
 Matrix:
 Soil
 Date Prep:
 08.30.17

 Parent Sample Id:
 561433-001
 MS Sample Id:
 561433-001 S
 MSD Sample Id:
 561433-001 SD

MS MS %RPD RPD Limits Units Parent Spike Analysis **MSD** MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <15.0 999 876 88 877 70-135 0 35 09.05.17 09:35 88 mg/kg 09.05.17 09:35 Diesel Range Organics (DRO) <15.0 999 1050 105 1080 108 70-135 3 35 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Flag %Rec Flag Date %Rec 1-Chlorooctane 125 124 70-135 09.05.17 09:35 % o-Terphenyl 104 104 70-135 % 09.05.17 09:35

Analytical Method:TPH by SW8015 ModPrep Method:TX1005PSeq Number:3026608Matrix: SoilDate Prep:08.31.17

Parent Sample Id: 561470-006 MS Sample Id: 561470-006 S MSD Sample Id: 561470-006 SD

%RPD RPD MS MS Units Parent Spike Limits Analysis **MSD** MSD Flag **Parameter** Result Amount Result %Rec %Rec Limit Date Result Gasoline Range Hydrocarbons (GRO) 09.05.17 09:41 999 813 81 813 70-135 0 35 <15.0 82 mg/kg 1000 100 1010 101 70-135 1 35 09.05.17 09:41 Diesel Range Organics (DRO) <15.0 999 mg/kg

MS MS**MSD MSD** Limits Units Analysis Surrogate Flag Flag Date %Rec %Rec 1-Chlorooctane 97 98 70-135 09.05.17 09:41 % 93 70-135 09.05.17 09:41 o-Terphenyl 94 %

Flag



TRC Solutions, Inc

Jal #3 Field Scrubbers (North BGT)

Flag

Flag

Flag

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3026474Matrix:SolidDate Prep:09.01.17MB Sample Id:730240-1-BLKLCS Sample Id:730240-1-BKSLCSD Sample Id:730240-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	09.01.17 11:55
Toluene	< 0.00200	0.100	0.100	100	0.105	105	70-130	5	35	mg/kg	09.01.17 11:55
Ethylbenzene	< 0.00200	0.100	0.102	102	0.106	106	71-129	4	35	mg/kg	09.01.17 11:55
m,p-Xylenes	< 0.00400	0.200	0.198	99	0.207	104	70-135	4	35	mg/kg	09.01.17 11:55
o-Xylene	< 0.00200	0.100	0.0972	97	0.102	102	71-133	5	35	mg/kg	09.01.17 11:55

MB LCSD LCS Analysis MB LCS LCSD Limits Units **Surrogate** Date %Rec Flag %Rec Flag Flag %Rec 89 94 95 80-120 09.01.17 11:55 1,4-Difluorobenzene % 93 101 103 80-120 09.01.17 11:55 4-Bromofluorobenzene %

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3026700Matrix:SolidDate Prep:09.05.17

 Seq Number:
 3026700
 Matrix:
 Solid
 Date Prep:
 09.05.17

 MB Sample Id:
 730377-1-BLK
 LCS Sample Id:
 730377-1-BSD

 LCSD Sample Id:
 730377-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.104	104	0.103	103	70-130	1	35	mg/kg	09.05.17 07:57
Toluene	< 0.00200	0.100	0.102	102	0.101	101	70-130	1	35	mg/kg	09.05.17 07:57
Ethylbenzene	< 0.00200	0.100	0.101	101	0.100	100	71-129	1	35	mg/kg	09.05.17 07:57
m,p-Xylenes	< 0.00401	0.200	0.198	99	0.196	98	70-135	1	35	mg/kg	09.05.17 07:57
o-Xylene	< 0.00200	0.100	0.0952	95	0.0945	95	71-133	1	35	mg/kg	09.05.17 07:57

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		97		96		80-120	%	09.05.17 07:57
4-Bromofluorobenzene	99		105		103		80-120	%	09.05.17 07:57

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3026474Matrix: SoilDate Prep:09.01.17

Parent Sample Id: 561776-001 MS Sample Id: 561776-001 S MSD Sample Id: 561776-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.0909	91	0.0922	92	70-130	1	35	mg/kg	09.01.17 12:31
Toluene	< 0.00200	0.100	0.0857	86	0.0894	89	70-130	4	35	mg/kg	09.01.17 12:31
Ethylbenzene	< 0.00200	0.100	0.0842	84	0.0865	87	71-129	3	35	mg/kg	09.01.17 12:31
m,p-Xylenes	< 0.00400	0.200	0.164	82	0.167	84	70-135	2	35	mg/kg	09.01.17 12:31
o-Xylene	< 0.00200	0.100	0.0836	84	0.0831	83	71-133	1	35	mg/kg	09.01.17 12:31

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		97		80-120	%	09.01.17 12:31
4-Bromofluorobenzene	109		110		80-120	%	09.01.17 12:31



TRC Solutions, Inc

Jal #3 Field Scrubbers (North BGT)

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3026700Matrix:SoilDate Prep:09.05.17

Parent Sample Id: 561383-008 MS Sample Id: 561383-008 S

MSD Sample Id: 561383-008 SD

RPD RPD Units Analysis Flag

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Fl
Benzene	< 0.00200	0.0998	0.103	103	0.104	104	70-130	1	35	mg/kg	09.05.17 16:23	
Toluene	< 0.00200	0.0998	0.100	100	0.101	101	70-130	1	35	mg/kg	09.05.17 16:23	
Ethylbenzene	< 0.00200	0.0998	0.0969	97	0.0982	98	71-129	1	35	mg/kg	09.05.17 16:23	
m,p-Xylenes	< 0.00399	0.200	0.189	95	0.191	96	70-135	1	35	mg/kg	09.05.17 16:23	
o-Xylene	< 0.00200	0.0998	0.0918	92	0.0932	93	71-133	2	35	mg/kg	09.05.17 16:23	
Summogata			N	4S	MS	MSD	MS	D Li	mits	Units	Analysis	

Surrogate %Rec Flag Flag Date %Rec 106 106 09.05.17 16:23 1,4-Difluorobenzene 80-120 % 09.05.17 16:23 4-Bromofluorobenzene 114 116 80-120 %



Dallas Texas (214-902-0300) Stafford, Texas (281-240-4200)

CHAIN OF CUSTODY

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Turnaround Time (Business days) Same Day TAT						Samu Next	Sam	Sam	Sam		10		9	8	7	6	5 S. BGT WSW	4 S. BGT SSW	3 0.001 EOV	0	S. BGT NSW	1 S. BGT Floor @ 18'			Samplers's Name Joel Lowry	Project Contact: Joel Lowry	ilowry@trcsolutions.com	2057 Commerce Drive Midland, TX 79703	TRC Environmental Company Address:	Company Name / Branch:	Client / Reporting Information		(1-1-00-000)
Date Time: Received By: Received By: Received By:	SAMPLE CUSTO	by Lab, if received by 5.	by Lab, if received by 5	by Lab, if received by 5			X Contract TAT	□7 Day TAT	☐ 6 Day TAT]	days)												Field ID / Point of Collection				Phone No:			adoi	tion		
Date H		Date Time!	102 (1	Date Time	:00 pm												131	13'	13'	13'	10	å,	Sample										
			7/0035	CUMENTED													8/28/2017	8/28/2017	8/28/2017	8/28/2017		8/28/2017	Date	Collection	Invoice: Consult Rose Slade for AFE No.		Invoice To: ETC Field Services, CO Rose Slade	Lea Co, NM	Jal #3 Field Scrubb				Midland, Texas (432-704-5251)
Received By:	3	Received By:	W. DS Received BX	BELOW HAC	>	TRR	Leve	Leve	Leve							14:00			13:40	13:30	13:20		Time .		sult Rose Sla		rvices, CO R	ion.	Jal #3 Field Scrubbers (North BGT)	Pro			Texas (432
Y:		y:		H TIME SA		TRRP Checklist	Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC	Date		1		1			S	S	S	co	0	VIIIDIA			de for AFE		se Slade		(North B	Project Information		18	-704-525
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On Ice				rrect	(6-2	9-0):	Temp:		oel Low	1								H	+	+				-								1	
Cooler Temp.			- 0.11	Corrected Temp. /	3: +0.2°	CF:(0-6: -0.2°C)	19	1	2										T												1 1 1	1/1/14	
np.			. 1	/	0.	_		1														Fie									<	C	
5 Custody Seal # Preserved where applicable Optice Cooler Temp. Thermo, Corr. Factor			/	7		7.7.0																Field Comments	A = Air	WW= Waste Water	WI = Wipe	SL = Sludge OW =Ocean/Sea Water	P = Product SW = Surface water	S = Soil/Sed/Soild GW = Ground Water	W = Water	Matrix Codes			



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: TRC Solutions, Inc

Date/ Time Received: 08/29/2017 04:55:00 PM

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Comments

Work Order #: 561490

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		1.7
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ntainer/ cooler?	N/A
#5 *Custody Seals intact on shipping con	tainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	s?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when reling	uished/ received?	Yes
#12 Chain of Custody agrees with sample	e label(s)?	Yes
#13 Container label(s) legible and intact?		Yes
#14 Sample matrix/ properties agree with	Chain of Custody?	Yes
#15 Samples in proper container/ bottle?		Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicate	ed test(s)?	Yes
#19 All samples received within hold time	?	Yes
#20 Subcontract of sample(s)?		No
#21 VOC samples have zero headspace	?	N/A
* Must be completed for after-hours de	livery of samples prior to placing ir	n the refrigerator
Analyst:	PH Device/Lot#:	
Checklist completed by:	Shawnee Smith	Date: 08/30/2017

Checklist reviewed by: Mush wah Kelsey Brooks

Sample Receipt Checklist

Date: 08/30/2017



Certificate of Analysis Summary 565899

TRC Solutions, Inc, Midland, TX Project Name: Jal #3 Field Scrubbers

Project Id:
Contact: Joel Lowry

Project Location: Jal, NM

Date Received in Lab: Wed Oct-18-17 04:30 pm

Report Date: 19-OCT-17 **Project Manager:** Kelsey Brooks

Toluene										
Depth: 15- ft SOIL SO		Lab Id:	565899-0	001	565899-00	02	565899-0	03		
Depth: 15- ft SOIL SO	Analysis Paguested	Field Id:	S. BGT ES	SWb	S. BGT WS	Wb	S. BGT Floo-	@ 21		
BTEX by EPA 8021B Extracted: Oct-18-17 14:25 Oct-18-17 14:35 Oct-18-17 14	Anaiysis Kequesiea	Depth:	15- ft		15- ft		21- ft			
BTEX by EPA 8021B		Matrix:	SOIL		SOIL		SOIL			
Analyzed Units/RL mg/kg		Sampled:	Oct-18-17	14:25	Oct-18-17 1	4:30	Oct-18-17 1	4:35		
Note	BTEX by EPA 8021B	Extracted:	Oct-18-17	17:00						
Benzene		Analyzed:	Oct-18-17	22:33						
Toluene 2.85 0.196		Units/RL:	mg/kg	RL						
Ethylbenzene	Benzene		< 0.196	0.196						
Name	Toluene		2.85	0.196						
Total BTEX 14.99 0.196	Ethylbenzene		2.65	0.196						
DRO-ORO By SW8015B Extracted: Oct-18-17 17:00 Oct-18-17 17:00 Oct-18-17 17:00 Oct-18-17 17:00 Analyzed: Oct-18-17 21:05 Oct-18-17 21:42 Oct-18-17 22:19 Units/RL: mg/kg RL mg/kg RL mg/kg RL Diesel Range Organics (DRO) 3140 250 542 250 390 125 Oil Range Hydrocarbons (ORO) 396 250 <250 250 <125 125 TPH GRO by EPA 8015 Mod. Extracted: Oct-18-17 17:00 Oct-18-17 17:00 Oct-18-17 17:00 Analyzed: Oct-18-17 22:33 Oct-19-17 00:20 Oct-19-17 00:47 Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg	Xylenes, Total		9.49	0.196						
Analyzed: Oct-18-17 21:05 Oct-18-17 21:42 Oct-18-17 22:19 mg/kg RL mg/kg mg/kg RL mg/kg mg/kg RL mg/kg RL mg/kg RL mg/kg RL mg/kg RL	Total BTEX		14.99	0.196						
Units/RL: mg/kg RL mg/kg	DRO-ORO By SW8015B	Extracted:	Oct-18-17	17:00	Oct-18-17 1	7:00	Oct-18-17 1	7:00		
Diesel Range Organics (DRO) 3140 250 542 250 390 125		Analyzed:	Oct-18-17	21:05	Oct-18-17 2	1:42	Oct-18-17 2	2:19		
Oil Range Hydrocarbons (ORO) 396 250 <250		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
TPH GRO by EPA 8015 Mod. Extracted: Oct-18-17 17:00 Oct-18-17 17:00 Oct-18-17 17:00 Analyzed: Oct-18-17 22:33 Oct-19-17 00:20 Oct-19-17 00:47 Units/RL: mg/kg RL mg/kg RL	Diesel Range Organics (DRO)		3140	250	542	250	390	125		
Analyzed: Oct-18-17 22:33 Oct-19-17 00:20 Oct-19-17 00:47 Units/RL: mg/kg RL mg/kg RL	Oil Range Hydrocarbons (ORO)		396	250	<250	250	<125	125		
Units/RL: mg/kg RL mg/kg RL mg/kg RL	TPH GRO by EPA 8015 Mod.	Extracted:	Oct-18-17	17:00	Oct-18-17 1	7:00	Oct-18-17 1	7:00		
		Analyzed:	Oct-18-17	22:33	Oct-19-17 0	0:20	Oct-19-17 0	0:47		
TPH-GRO 687 39.3 61.0 8.00 272 7.77		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
	TPH-GRO		687	39.3	61.0	8.00	272	7.77		

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

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

Kelsey Brooks Project Manager

Knis Roah

Analytical Report 565899

for TRC Solutions, Inc

Project Manager: Joel Lowry
Jal #3 Field Scrubbers

19-OCT-17

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco-Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



19-OCT-17

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 565899

Jal #3 Field Scrubbers
Project Address: Jal, NM

Joel Lowry:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 565899. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 565899 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Kelsey Brooks

Knus Hoah

Project Manager

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 565899

$TRC\ Solutions, Inc,\ Midland, TX$

Jal #3 Field Scrubbers

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S. BGT ESWb	S	10-18-17 14:25	15 ft	565899-001
S. BGT WSWb	S	10-18-17 14:30	15 ft	565899-002
S. BGT Floo-@ 21	S	10-18-17 14:35	21 ft	565899-003

XENCO

CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Jal #3 Field Scrubbers

Project ID: Report Date: 19-OCT-17
Work Order Number(s): 565899 Date Received: 10/18/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3030812 BTEX by EPA 8021B

Sample 565899-001 was ran at a dilution due to hydrocarbons.

Batch: LBA-3030826 DRO-ORO By SW8015B

Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 565899-003 S,565899-003 SD,565899-001,565899-002,565899-003.

Surrogate Tricosane recovered above QC limits. Matrix interferences is suspected; data confirmed by reanalysis.

Samples affected are: 565899-003 S,565899-003 SD,565899-003,565899-001,565899-002.

Page 5 of 14

Final 1.000



TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers

Sample Id: S. BGT ESWb Matrix: Soil Date Received:10.18.17 16.30

Lab Sample Id: 565899-001 Date Collected: 10.18.17 14.25 Sample Depth: 15 ft

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 10.18.17 17.00 Basis: Wet Weight

Seq Number: 3030826

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	3140	250		mg/kg	10.18.17 21.05		10
Oil Range Hydrocarbons (ORO)	PHCG2835	396	250		mg/kg	10.18.17 21.05		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	1490	%	65-144	10.18.17 21.05	**	
n-Triacontane		638-68-6	504	%	46-152	10.18.17 21.05	**	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 10.18.17 17.00 Basis: Wet Weight

Seq Number: 3030812

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.196	0.196		mg/kg	10.18.17 22.33	U	10
Toluene	108-88-3	2.85	0.196		mg/kg	10.18.17 22.33		10
Ethylbenzene	100-41-4	2.65	0.196		mg/kg	10.18.17 22.33		10
Xylenes, Total	1330-20-7	9.49	0.196		mg/kg	10.18.17 22.33		10
Total BTEX		14.99	0.196		mg/kg	10.18.17 22.33		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	68-120	10.18.17 22.33		
a,a,a-Trifluorotoluene		98-08-8	100	%	71-121	10.18.17 22.33		

% Moisture:



TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers

Sample Id: S. BGT ESWb Matrix: Soil Date Received:10.18.17 16.30

Lab Sample Id: 565899-001 Date Collected: 10.18.17 14.25 Sample Depth: 15 ft

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 10.18.17 17.00 Basis: Wet Weight

Seq Number: 3030804

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	687	39.3		mg/kg	10.18.17 22.33		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	76-123	10.18.17 22.33		
a,a,a-Trifluorotoluene		98-08-8	98	%	69-120	10.18.17 22.33		



TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers

Sample Id: S. BGT WSWb Matrix: Soil Date Received:10.18.17 16.30

Lab Sample Id: 565899-002 Date Collected: 10.18.17 14.30 Sample Depth: 15 ft

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

Tech: PGM % Moisture:

Analyst: PGM Date Prep: 10.18.17 17.00 Basis: Wet Weight

Seq Number: 3030826

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	542	250		mg/kg	10.18.17 21.42		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<250	250		mg/kg	10.18.17 21.42	U	10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	386	%	65-144	10.18.17 21.42	**	
n-Triacontane		638-68-6	246	%	46-152	10.18.17 21.42	**	

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT % Moisture:

Analyst: MIT Date Prep: 10.18.17 17.00 Basis: Wet Weight

Seq Number: 3030804

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	61.0	8.00		mg/kg	10.19.17 00.20		2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	102	%	76-123	10.19.17 00.20		
a,a,a-Trifluorotoluene	9	98-08-8	114	%	69-120	10.19.17 00.20		



TRC Solutions, Inc, Midland, TX

Jal #3 Field Scrubbers

Sample Id: S. BGT Floo-@ 21 Matrix: Soil Date Received:10.18.17 16.30

Lab Sample Id: 565899-003 Date Collected: 10.18.17 14.35 Sample Depth: 21 ft

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

% Moisture:

% Moisture:

Analyst: PGM Date Prep: 10.18.17 17.00 Basis: Wet Weight

Seq Number: 3030826

PGM

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	390	125		mg/kg	10.18.17 22.19		5
Oil Range Hydrocarbons (ORO)	PHCG2835	<125	125		mg/kg	10.18.17 22.19	U	5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane		638-67-5	288	%	65-144	10.18.17 22.19	**	
n-Triacontane		638-68-6	158	%	46-152	10.18.17 22.19	**	

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

Tech: MIT

Analyst: MIT Date Prep: 10.18.17 17.00 Basis: Wet Weight

Seq Number: 3030804

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	272	7.77		mg/kg	10.19.17 00.47		2
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	113	%	76-123	10.19.17 00.47		
a,a,a-Trifluorotoluene	ç	98-08-8	97	%	69-120	10.19.17 00.47		



Flagging Criteria

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

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

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

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Page 10 of 14 Final 1.000



TRC Solutions, Inc

Jal #3 Field Scrubbers

Analytical Method:DRO-ORO By SW8015BPrep Method:SW8015PSeq Number:3030826Matrix: SolidDate Prep:10.19.17

MB Sample Id: 7632830-1-BLK LCS Sample Id: 7632830-1-BKS LCSD Sample Id: 7632830-1-BSD

%RPD MR Spike LCS LCS Limits **RPD** LCSD LCSD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec 10.18.17 17:16 Diesel Range Organics (DRO) <25.0 100 100 100 97.5 98 63-139 3 20 mg/kg

LCS MB MB LCS LCSD LCSD Limits Units Analysis **Surrogate** Flag Flag %Rec %Rec Flag Date %Rec Tricosane 106 112 107 65-144 % 10.18.17 17:16 n-Triacontane 89 88 83 46-152 % 10.18.17 17:16

Analytical Method: DRO-ORO By SW8015B Prep Method: SW8015P

 Seq Number:
 3030826
 Matrix:
 Soil
 Date Prep:
 10.18.17

 Parent Sample Id:
 565899-003
 MS Sample Id:
 565899-003 S
 MSD Sample Id:
 565899-003 SD

Parent Spike MS MS Limits %RPD **RPD** Units MSD MSD Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date 10.18.17 22:56 507 20 Diesel Range Organics (DRO) 390 100 117 503 113 63-139 1 mg/kg

MSD MS MS **MSD** Limits Units Analysis **Surrogate** Flag %Rec Flag Date %Rec Tricosane 330 ** 309 ** 65-144 % 10.18.17 22:56 n-Triacontane 215 221 46-152 % 10.18.17 22:56

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3030812Matrix:SolidDate Prep:10.18.17

MB Sample Id: 7632835-1-BLK LCS Sample Id: 7632835-1-BKS LCSD Sample Id: 7632835-1-BSD

LCS LCS %RPD **RPD** MB Spike LCSD LCSD Limits Units Analysis **Parameter** Result Result Amount %Rec Limit Date Result %Rec 2.00 2.02 101 2.00 20 10.18.17 19:26 < 0.0200 100 55-120 Benzene 1 mg/kg 10.18.17 19:26 2.00 2.01 101 1.98 77-120 2 20 Toluene < 0.0200 99 mg/kg 10.18.17 19:26 Ethylbenzene < 0.0200 2.00 1.95 98 1.96 98 77-120 20 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag Date %Rec Flag %Rec Flag 4-Bromofluorobenzene 91 92 91 68-120 % 10.18.17 19:26 a,a,a-Trifluorotoluene 95 89 92 71-121 % 10.18.17 19:26

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Seq Number: 3030812 Matrix: Solid Date Prep: 10.18.17

MB Sample Id: 7632835-1-BLK LCS Sample Id: 7632835-1-BKS

MB Spike LCS LCS Limits Units Analysis **Parameter** Flag Result Result Amount %Rec Date 0 10.18.17 19:26 Xylenes, Total 6 5.88 98 71-133 mg/kg

Flag



TRC Solutions, Inc

Jal #3 Field Scrubbers

Analytical Method:BTEX by EPA 8021BPrep Method:SW 5030BSeq Number:3030812Matrix: SoilDate Prep:10.18.17

Parent Sample Id: 565899-001 MS Sample Id: 565899-001 S MSD Sample Id: 565899-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.195	19.5	1.68	9	1.63	8	54-120	3	25	mg/kg	10.18.17 23:00	X
Toluene	2.85	19.5	4.04	6	3.98	6	57-120	1	25	mg/kg	10.18.17 23:00	X
Ethylbenzene	2.65	19.5	4.02	7	3.90	7	58-131	3	25	mg/kg	10.18.17 23:00	X
Xylenes, Total	9.49	58.6	13.83	7	13.6	7	71-133	0	20	mg/kg	10.18.17 23:00	X

MS MS **MSD** Units Analysis **MSD** Limits **Surrogate** %Rec Flag Flag Date %Rec 4-Bromofluorobenzene 100 90 68-120 % 10.18.17 23:00 100 71-121 10.18.17 23:00 a,a,a-Trifluorotoluene 98 %

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

 Seq Number:
 3030804
 Matrix:
 Solid
 Date Prep:
 10.18.17

 MB Sample Id:
 7632837-1-BLK
 LCS Sample Id:
 7632837-1-BKS
 LCSD Sample Id:
 7632837-1-BSD

RPD MB Spike LCS LCS Limits %RPD Units Analysis LCSD LCSD **Parameter** Result %Rec Limit Date Result Amount Result %Rec TPH-GRO 35-129 10.18.17 20:20 20.0 20.4 102 11 20 mg/kg <4.00 22.8 114 MB MB LCS LCS LCSD LCSD Limits Units Analysis

Surrogate Flag %Rec Flag Flag Date %Rec %Rec 4-Bromofluorobenzene 102 87 88 76-123 % 10.18.17 20:20 a,a,a-Trifluorotoluene 116 95 99 69-120 % 10.18.17 20:20

Analytical Method: TPH GRO by EPA 8015 Mod. Prep Method: SW5030B

 Seq Number:
 3030804
 Matrix:
 Soil
 Date Prep:
 10.18.17

 Parent Sample Id:
 565837-001
 MS Sample Id:
 565837-001 S
 MSD Sample Id:
 565837-001 SD

RPD Spike MS MS %RPD Units Parent Analysis **MSD** MSD Limits Flag **Parameter** Result Amount Result %Rec Limit Date Result %Rec TPH-GRO 2490 990 2610 12 2630 35-129 1 20 10.19.17 03:26 X 14 mg/kg

MS MSMSD MSD Limits Units Analysis **Surrogate** %Rec Flag Flag Date %Rec 4-Bromofluorobenzene 104 107 76-123 % 10.19.17 03:26 a,a,a-Trifluorotoluene 110 114 69-120 10.19.17 03:26 %

Flag

CHAIN OF CUSTODY Page 1 of |____

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					Analyti	Analytical Information	Matrix Codos
Client / Reporting Information		Project Information	tion				2000 81881
Company Name / Branch;	Proj	Project Name/Number:	1 6 (-6		oy:		W = Water
Company Address:	Proic	Project Location		27.5			S = Soll/Sed/Solid GW = Ground Water
2057 Commerce		Jal, Bur			1		DW = Drinking Water P = Product
Email: Phone No:	Ę	invoice To:		2 S S.	47 -11		SV - Studge OW = Ocean/Sea Water WI = Wipe
Project Contact:	Pol	PO Number:	1	100			O = Oil WW = Waste Water A = Air
Sampler's's Name:					20E		i c
	Colle	Collection	Number	Number of preserved bottles			
No. Field ID / Point of Collection	Sample	Zing M	NO3 GOH/ZU GOH/ZU CCI	ONE 9H2O¢ 9OH 52O¢	718		
1 5.801 6500		0 2:23 S	V 1	N N	7		Field Comments
2 4. BLT WIND		7:30 \$					C
3 4. Bb7 FWO-021	1 12	135 5 1			7		8 16
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Turnaround Time (Business days)		Data D	Data Deliverable Information			Notes:	
Same Day TAT 5 Day TAT		Level II Std QC		Level IV (Full Data Pkg /raw data)	aw data)	Rush Verbuls	S Le
Next Day EMERGENCY 7 Day TAT		Level III Std QC+ Forms	+ Forms	TRRP Level IV			
2 Day EMERGENCY Contract TAT	L	Level 3 (CLP Forms)	rms)	UST / RG -411		432 940 5157	
3 Day EMERGENCY		Level II Report	Level II Report with TRRP checklist	st			
TAT Starts Day received by Lab, if received by 5:00 pm	5:00 pm					FED-EX / UPS: Tracking #	
SAMPLE CUSTO	ODY MUST BE DOCUM	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY	MPLES CHANGE PO	SSESSION, INCLUDING COUR	IER DELIVERY		
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Relinguished by:	Date Time:	Received By:		Relinquished By:	Date Time:	Received By:	
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The cost of samples. Any samples ceeded by Xenoo but not assure that of the cost of samples and shall not assure limited to the cost of samples. Any samples received by Xenoo but not analyzed will

Preserved where applicable



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 10/18/2017 04:30:33 PM Air and Metal samples Acceptable Range: Ambient

Work Order #: 565899 Temperature Measuring device used : IR-3

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		4.3	
#2 *Shipping container in good condition?	Yes		
#3 *Samples received on ice?	Yes		
#4 *Custody Seals intact on shipping conta	N/A		
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?	No		
#9 Chain of Custody signed when relinquis	Yes		
#10 Chain of Custody agrees with sample I	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	pace?	N/A	

Must be o	completed for after-hours de	livery of samples prior to pla	cing in the refrigerator
Analyst:		PH Device/Lot#:	
	Checklist completed by:	Brenda Ward Brenda Ward	Date: <u>10/18/2017</u>
	Checklist reviewed by:	Hunr Hoah Kelsey Brooks	Date: 10/19/2017





Photo 1: View of the "Field Scrubber Dump Tanks" prior to removal, facing north.





Photo 2: View of the "Field Scrubber Dump Tanks" prior to removal, facing northeast.





Photo 3: View of preparation to removal the northern field scrubber BGT.





Photo 4: View of the removal of the northern field scrubber BGT, facing east.





Photo 5: View of the bottom of the northern, steel field scrubber BGT.





Photo 6: View of the bottom of the northern, steel field scrubber BGT.





Photo 7: View of the former northern field scrubber BGT location.





Photo 8: View of the removal of the southern field scrubber BGT, facing northeast.



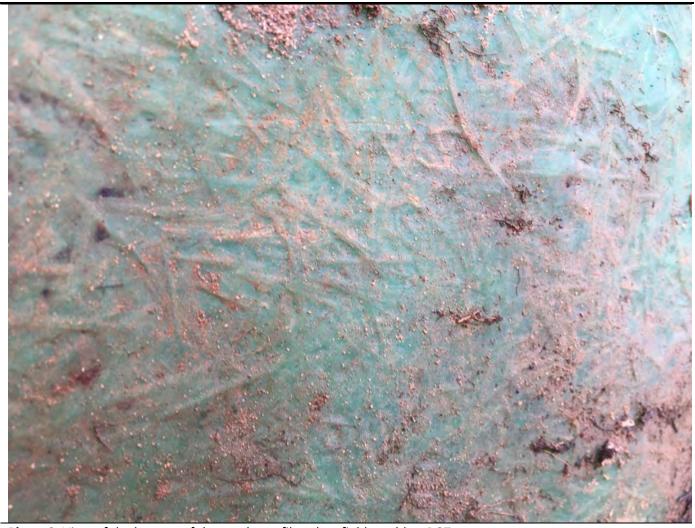


Photo 9: View of the bottom of the northern, fiberglass field scrubber BGT.





Photo 10: View of the bottom of the northern, fiberglass field scrubber BGT.



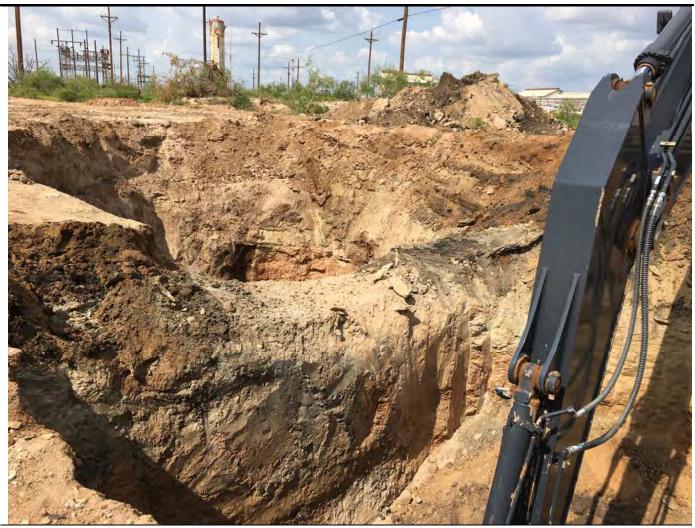


Photo 11: View of the former field scrubber BGT's location, facing north.





Photo 12: View of the former southern field scrubber BGT location.





Photo 13: View of excavation of affected soil adjacent to the southern BGT's former location, facing east.





Photo 14: View of Excavation A, facing northeast.





Photo 15: View of Excavation B, facing southeast.





Photo 16: View of Excavation C, facing west.



Photographic Documentation



Photo 17: View of the Site after remediation activities, facing west.



Photographic Documentation





Photographic Documentation



SUNDANCE SERVICES, Inc.

White - Sundance

TICKET No.

Pink - Transporter

437402 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: Scrubbers **LEASE NAME:** TRANSPORTER COMPANY: GENERATOR COMPANY **VEHICLE NO:** DATE: MAN'S NAME: RIG NAME **CHARGE TO:** AND NUMBER **TYPE OF MATERIAL** [] Drilling Fluids [] Production Water [] Rinsate Contaminated Soil [] Tank Bottoms [] Jet Out [] Solids **BS&W Content:** [] Call Out Description: RRC or API# C-133# YARD **VOLUME OF MATERIAL** [] BBLS. [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR **GEOTHERMAL ENERGY.** ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. **FACILITY REPRESENTATIVE:** (SIGNATURE)

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SUNDANCE SERVICES, Inc. TICKET No. 437424 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: GENERATOR COMPANY **VEHICLE NO:** MAN'S NAME: RIG NAME AND NUMBER **CHARGE TO:** TYPE OF MATERIAL [] Drilling Fluids [] Rinsate [] Production Water] Contaminated Soil [] Jet Out [] Tank Bottoms [] Call Out [] Solids Description: C-133# RRC or API# IM YARD [] **VOLUME OF MATERIAL** [] BBLS. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S **FACILITY FOR DISPOSAL.** THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

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SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 TICKET No. 437436 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY: DATE: **VEHICLE NO:** GENERATOR COMPANY MAN'S NAME **CHARGE TO:** RIG NAME AND NUMBER TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms Contaminated Soil [] Jet Out [] Solids [] BS&W Content: [] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** [] BBLS. YARD [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: **FACILITY REPRESENTATIVE:**

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White - Sundance

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L. L.	10		MAN'S NAME: ROCK	
			RIG NAME AND NUMBER	- Juliu
	*	TYPE OF MATERIAL	- Motif	
[Production Water			
	Tank Bottoms	[] Drilling Fluids	[] Rinsate	
	Solids	Contaminated Soil	[] Jet Out	
Description:	27/	[] BS&W Content:	[] Call Out	
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SUNDANCE SERVICES, I	
P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511	nc.
(575) 394-2511	Ticum.
LEASE OPERATOR/SHIPPER/COMPANY: Z 7/	MCKET No. 437403
TRANSPORTER COMPANY: M 3 FIGH	50
I DATE II III	Syubbers
CHARGE TO:	TIME
F 7/	GENERATOR COMPANY MAN'S NAME:
	RIGNAME
	AND NUMBER
[] Production Water	RIAL
duction water	uide
- Citoriis	[] Rinsate
J. Denius	l Jet Out
	tent: [] Call Out
RRC or API#	
VOLUME OF	
VOLUME OF MATERIAL [] BBLS.	C-133#
Y	ARD 10 :
AC A CO.	
MATERIAL EVENTS AND THE SERVICES, INC.'S ACCEPTANCE	E OF THE MATTER
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § ASSOCIATED WITH THE EXPLORATION APPORTED DRILLING FLUIG GEOTHERMAN.	THE WASTE MATERIAL SHIPPED WITH THIS JOB
THERETO, BY VIRTUE OF THE EXCHANGE AND SAF CODE	OVERY ACT OF 1976, AS AMENDED HEREWITH IS
TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICE.	3 361.001 et seq., AND REGULATIONS PEL
ALSO AS A CONDITION TO SUMP	CRODE OIL OR NATURAL GAS OR
OPERATOR TRANSPORTER REPRESENTS	FORT
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER IS NOW DELIVER BY TRANSPORTER BY TRANSP	ONLY THE MATERIALS SHIPPED WITH THIS IOD
TRANSPUSAL BY TRAN	NSPORTER TO SUNDANCE
above the above Trans	SUNDANCE SERVICES, INC'S
materials were add	Wesentad L
THIS WILL CERTIFY that the above Transporter loaded the material reparatorials were added to this load, and that it was tendered by the above described by the above described to this load, and that the material was delivered with DRIVER:	ed shipper. This will
DRIVER:	hout incident.
(SIGNATURE)	
FACILITY REPRESENTATIVE:	
" "CULTIATIVE: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
_ / // // // //	/ I
White - Sunday	
_ / // // // //	Pink - Transporter

	(575) 394-	RVICES, Inc.	TICKET No. 437425
LEASE OPERATOR/S	HIPPER/COMPANY:	FIN	401423
ELASE NAME:	1 4 7	The state of the s	
TRANSPORTER COMI	PANY:	till -	Erubbro
DATE: //-/ -</td <td>VEHICLE NO:</td> <td>11/11/11 Cox</td> <td></td>	VEHICLE NO:	11/11/11 Cox	
CHARGE TO: 7			ATOR COMPANY TIME / JOYAMP
X	10		MAN'S NAME:
		# AND	NAME O NUMBER
		TYPE OF MATERIAL	
1	Production Water		
	Tank Bottoms	[] Drilling Fluids	[] Rinsate
] Solids	Contaminated Soil	[] Jet Out
Description:	0/12	[] BS&W Content:	[] Call Out
RRC or API #			Can Out
VOLUME OF MATERIAL	[]BBLS.		C-133#
	. JDDL3,	YARD	2
THERETO BY VIDTUE	of the Exemption aff of the Exemption aff he Exploration, deve y.	ES, INC.'S ACCEPTANCE OF THE MAND WARRANTS THAT THE WASTE IN INSERVATION AND RECOVERY ACT OF ALTH AND SAF. CODE § 361.001 et s'ORDED DRILLING FLUIDS, PRODUCTION OF CE	F 1976 AS AMENDED
ALSO AS A CONTE			ON WATURAL GAS OR
ALSO AS A CONDITION TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA	ON TO SUNDANCE SERVICER REPRESENTS AND OTRANSPORTER IS NOT L.	CES, INC.'S ACCEPTANCE OF THE MAY WARRANTS THAT ONLY THE W DELIVERED BY TRANSPORTER TO	TERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY
ALSO AS A CONDITION TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA	ON TO SUNDANCE SERVICER REPRESENTS AND OUTRANSPORTER IS NOT L.	CES, INC.'S ACCEPTANCE OF THE MA WARRANTS THAT ONLY THE W DELIVERED BY TRANSPORTER TO	TERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY O SUNDANCE SERVICES, INC.'S
ALSO AS A CONDITION TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA THIS WILL CERTIFY to above described by	ON TO SUNDANCE SERVICE REPRESENTS AND O TRANSPORTER IS NOT L. hat the above Transporter	CES, INC.'S ACCEPTANCE OF THE MA' WARRANTS THAT ONLY THE W DELIVERED BY TRANSPORTER TO	TERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY O SUNDANCE SERVICES, INC'S
ALSO AS A CONDITION TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA THIS WILL CERTIFY to above described by	ON TO SUNDANCE SERVICE REPRESENTS AND O TRANSPORTER IS NOT L. hat the above Transporter	CES, INC.'S ACCEPTANCE OF THE MA' WARRANTS THAT ONLY THE W DELIVERED BY TRANSPORTER TO	TERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY O SUNDANCE SERVICES, INC'S
ALSO AS A CONDITION TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA THIS WILL CERTIFY to above described by	ON TO SUNDANCE SERVICER REPRESENTS AND OUTRANSPORTER IS NOT LESS TO THE CONTRACT OF THE CONTRA	CES, INC.'S ACCEPTANCE OF THE MAN WARRANTS THAT ONLY THE WORK DELIVERED BY TRANSPORTER TO COMPARE THE PROPERTY OF THE WORK DELIVERED BY TRANSPORTER TO COMPARE THE PROPERTY OF	TERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY O SUNDANCE SERVICES, INC'S
ALSO AS A CONDITION TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA THIS WILL CERTIFY to above described location materials were added to DRIVER:	ON TO SUNDANCE SERVICER REPRESENTS AND OTRANSPORTER IS NOT L. that the above Transporter II, and that it was tendered this load, and that the model of the service of the s	CES, INC.'S ACCEPTANCE OF THE MAN WARRANTS THAT ONLY THE WORK DELIVERED BY TRANSPORTER TO COMPARE THE PROPERTY OF THE WORK DELIVERED BY TRANSPORTER TO COMPARE THE PROPERTY OF	TERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY O SUNDANCE SERVICES, INC'S
ALSO AS A CONDITION TICKET. TRANSPORTE OPERATOR/SHIPPER TO FACILITY FOR DISPOSA THIS WILL CERTIFY to above described location materials were added to DRIVER: [SIGNATURE]	ON TO SUNDANCE SERVICER REPRESENTS AND OTRANSPORTER IS NOT L. that the above Transporter II, and that it was tendered this load, and that the model of the control of the c	CES, INC.'S ACCEPTANCE OF THE MAN WARRANTS THAT ONLY THE WORK DELIVERED BY TRANSPORTER TO COMPARE THE PROPERTY OF THE WORK DELIVERED BY TRANSPORTER TO COMPARE THE PROPERTY OF	TERIALS SHIPPED WITH THIS JOB MATERIAL DELIVERED BY O SUNDANCE SERVICES, INC'S

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SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 TICKET No. 434040

LEASE OPERATOR/SHIPPER/COMPANY:	C	
LEASE NAME: Jal #3	Field SC	TIMEZ ZIJAMPM)
TRANSPORTER COMPANY: Menny	Man Con	R COMPANY OS O
DATE: 10-10-17 VEHICLE NO: 0	Ol GENERALO	IAN'S NAME OS SCOOL
CHARGETO: EIC	RiG NA AND N	
Т	YPE OF MATERIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	Contaminated Soil	[] Jet Out
[] Solids	[] BS&W Content:	[] Call Out
Description:		
RRC or API#		C-133#
VOLUME OF MATERIAL [] BBLS	: [XYARD_][): [1
		AND THE PARTY OF T

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

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

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

DRIVER: Jose Perez

FACILITY REPRESENTATIVE: 5 BOLHOUGE

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

UNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 434038 TICKET No. (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: DATE: ENERATOR COMPANY MAN'S NAME **CHARGE TO:** RIG NAME AND NUMBER TYPE OF MATERIAL [] Production Water [],Drilling Fluids [] Rinsate [] Tank Bottoms X Contaminated Soil [] Jet Out [] Solids [] BS&W Content: [] Call Out Description: RRC or API # C-133# **VOLUME OF MATERIAL** [] BBLS. []. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. **DRIVER:**

Canary - Sundance Acct #1

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Pink - Transporter

FACILITY REPRESENTATIVE:

White - Sundance

(SIGNATURE)

UNDANCE SERVICES, Inc. 434039 TICKET No. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: TIME DATE: **VEHICLE NO:** GENERATOR COMPANY MAN'S NAME: **CHARGE TO:** RIG NAME AND NUMBER TYPE OF MATERIAL [] Production Water [], Drilling Fluids [] Rinsate [] Tank Bottoms **Contaminated Soil** [] Jet Out [] Solids [] BS&W Content: [] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** [] BBLS. YARD [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

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

DRIVER: ONG C SIGNATURE: STORY REPRESENTATIVE:

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

P.O. Box 1737 Eunice, New M (575) 394-2511	TCES, Inc.	TICKET No. 434027
LEASE OPERATOR/SHIPPER/COMPANY: E LEASE NAME: JQ ## TRANSPORTER COMPANY: NETVO DATE: 10-10-17 VEHICLE NO: OY CHARGE TO: E JC	GENERATO	TIME 1, 23 AM/PM PRICOMPANY ROSE STAND
	AND	UMBER
[] Production Water [] Tank Bottoms [] Solids Description:	YPE OF MATERIAL [] Drilling Fluids [] Contaminated Soil [] BS&W Content:	[] Rinsate [] Jet Out [] Call Out
VOLUME OF MATERIAL [] BBLS.	_: XYARD / C	C-133#
AS A CONDITION TO SUNDANCE SERVICES, TICKET, OPERATOR/SHIPPER REPRESENTS AND MATERIAL EXEMPT FROM THE RESOURCE, CONS TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEAL THERETO, BY VIRTUE OF THE EXEMPTION AFFOL ASSOCIATED WITH THE EXPLORATION, DEVELO GEOTHERMAL ENERGY.	ERVATION AND RECOVERY ACT O TH AND SAF, CODE § 361,001 et s	F 1976, AS AMENDED FROM TIME
ALSO AS A CONDITION TO SUNDANCE SERVICE TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NOW FACILITY FOR DISPOSAL.	ES, INC.'S ACCEPTANCE OF THE MA	TEDIAL C CLUBA
THIS WILL CERTIFY that the above Transporter le above described location, and that it was tendered materials were added to this load, and that the mat	oaded the material represented by	thic Transman
DRIVER: JOSE Perez		
FACILITY REPRESENTATIVE:	aheua	
White - Sundance Canary	- Sundance Acct #1 Pi	nk - Transporter

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Pink - Transporter

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SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231

White - Sundance

TICKET No. 434026

(575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY VEHICLE NO: GENERATOR COMPANY MAN'S NAME **CHARGE TO:** RIG NAME AND NUMBER TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms Contaminated Soil [] Jet Out [] Solids [] BS&W Content: [] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** [] BBLS. YARD [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. **FACILITY REPRESENTATIVE:** (SIGNATURE)

Canary - Sundance Acct #1

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Pink - Transporter

UNDANCE SERVICES, Inc. TICKET No. 434025 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY: GENERATOR COMPANY MAN'S NAME **CHARGE TO:** RIG NAME AND NUMBER TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms Contaminated Soil [] Jet Out [] Solids [] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** [] BBLS. YARD [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS

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

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

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

DRIVER: Lande Nas 4

FACILITY REPRESENTATIVE: STORMAN

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511

TICKET No. 434024

LEASE OPERATOR/SHIPPER/COMPANY:	C
LEASE NAME: Ja #3	Field Scrubblers
TRANSPORTER COMPANY: MOVING	M /80. TIME /: 20 AM/PM)
DATE: 10-17 VEHICLE NO: 140	GENERATOR COMPANY ROSE SLADE
CHARGE TO: ETC	RIG NAME AND NUMBER
ТҮІ	PE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	Contaminated Soil [] Jet Out
[] Solids	[] BS&W Content: [] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS.	: [] YARD / O : []
TICKET, OPERATOR/SHIPPER REPRESENTS AND MATERIAL EXEMPT FROM THE RESOURCE, CONS TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEAL THERETO, BY VIRTUE OF THE EXEMPTION AFFO ASSOCIATED WITH THE EXPLORATION, DEVELO GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVIC TICKET. TRANSPORTER REPRESENTS AND	INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS ERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED RDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE DPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR ES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB WARRANTS THAT ONLY THE MATERIAL DELIVERED BY W DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter	r loaded the material represented by this Transporter Statement at the ed by the above described shipper. This will certify that no additional
(SIGNATURE)	ary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc. 434013 P.O. Box 1737 Eunice, New Mexico 88231 TICKET No. (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** 1010 TRANSPORTER COMPANY: TIME **VEHICLE NO:** MAN'S NAME: **CHARGE TO:** RIG NAME AND NUMBER TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms **Contaminated Soil** [] Jet Out [] Solids [] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** [] BBLS. X) YARD [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. **FACILITY REPRESENTATIVE:**

Canary - Sundance Acct #1

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Pink - Transporter

(SIGNATURE)

White - Sundance

SUNDANCE SERVICES, Inc. TICKET No. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY: bern GENERATOR COMPANY MAN'S NAME: **VEHICLE NO:** RIG NAME AND NUMBER **CHARGE TO:** TYPE OF MATERIAL [] Rinsate [] Drilling Fluids [] Production Water [] Jet Out Contaminated Soil [] Tank Bottoms [] Call Out [] BS&W Content: [] Solids Description: C-133# RRC or API # [] YARD VOLUME OF MATERIAL [] BBLS. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

Canary - Sundance Acct #1

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Pink - Transporter

DRIVER:

(SIGNATURE)
FACILITY REPRESENTATIVE:

White - Sundance

(SIGNATURE)



SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511

TICKET No. 434011

(1)		
LEASE OPERATOR/SHIPPER/COMPANY: E	TC	
LEASE NAME: $\sqrt{3}$	Field Scrub	bers
TRANSPORTER COMPANY: MPM	man (m	TIME //, 3/ AMPM
DATE: 10-10-17 VEHICLE NO: Ja	GENERATOR CO	MPANY COSE Stade
CHARGETO: £TC	RIG NAME AND NUMB	ER
Т	YPE OF MATERIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	Contaminated Soil	[] Jet Out
[] Solids	[] BS&W Content:	[] Call Out
Description:		
RRC or API #		C-133#
VOLUME OF MATERIAL [] BBLS.	_: X1 YARD //	. []
AS A CONDITION TO SUNDANCE SERVICE TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEA THERETO, BY VIRTUE OF THE EXEMPTION AFF ASSOCIATED WITH THE EXPLORATION, DEVE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVATICKET. TRANSPORTER REPRESENTS ANI OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transport above described location, and that it was tende materials were added to this load, and that the DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE)	ID WARRANTS THAT THE WASTE MANSERVATION AND RECOVERY ACT OF ALTH AND SAF. CODE § 361.001 et se CORDED DRILLING FLUIDS, PRODUCI LOPMENT OR PRODUCTION OF CRUCES, INC.'S ACCEPTANCE OF THE MAYOW DELIVERED BY TRANSPORTER TO THE MAYOW DELIVER BY THE MAYOW DELIVER TO THE MAYOW DELIVER BY THE BY T	ATERIAL SHIPPED HEREWITH IS 1976, AS AMENDED FROM TIME q., AND REGULATIONS RELATED ED WATERS, AND OTHER WASTE UDE OIL OR NATURAL GAS OR FERIALS SHIPPED WITH THIS JOB E MATERIAL DELIVERED BY TO SUNDANCE SERVICES, INC.'S this Transporter Statement at the This will certify that no additional
White - Sundance Ca	nary - Sundance Acct #1	Pink - Transporter

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

TICKET No. 434010

(575) 394-2511		
LEASE OPERATOR/SHIPPER/COMPANY:	-C	
LEASE NAME: $5a + 3$	field Scrub	obers
TRANSPORTER COMPANY: Merry	nan Con.	TIME (1:32 M)PM
DATE: 10-10-17 VEHICLE NO: JU		OR COMPANY ROSE Stadle
CHARGETO: ETC	RIG N. AND I	AME NUMBER
TN	PE OF MATERIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	Contaminated Soil	[] Jet Out
[] Solids	[] BS&W Content:	[] Call Out
Description:		
RRC or API #	100	C-133#
VOLUME OF MATERIAL [] BBLS.	_: [_Y\ARD[(· []
AS A CONDITION TO SUNDANCE SERVICES TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEA THERETO, BY VIRTUE OF THE EXEMPTION AFF- ASSOCIATED WITH THE EXPLORATION, DEVEL GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICET. TRANSPORTER REPRESENTS AND	D WARRANTS THAT THE WASTI ISERVATION AND RECOVERY ACT ALTH AND SAF. CODE § 361.001 & ORDED DRILLING FLUIDS, PROD LOPMENT OR PRODUCTION OF CES, INC.'S ACCEPTANCE OF THE D WARRANTS THAT ONLY	E MATERIAL SHIPPED HEREWITH IS T OF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE E CRUDE OIL OR NATURAL GAS OR MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY
OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL.		- '
THIS WILL CERTIFY that the above Transports above described location, and that it was tende materials were added to this load, and that the r	red by the above described shipp	per. This will certify that no additional
FACILITY REPRESENTATIVE: (SIGNATURE)	aheua	
White - Sundance Car	nary - Sundance Acct #1	Pink - Transporter

SUNDANCE SERVICES, Inc. 433994 TICKET No. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY: GENERATOR COMPANY DATE: MAN'S NAME RIG NAME AND NUMBER **CHARGE TO:** TYPE OF MATERIAL [] Rinsate [] Drilling Fluids [] Production Water [] Jet Out Contaminated Soil [] Tank Bottoms [] Call Out [] BS&W Content: [] Solids Description: C-133# RRC or API # [] [] BBLS. **VOLUME OF MATERIAL** AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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

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

DRIVER: SIGNATURE)

FACILITY REPRESENTATIVE: (SIGNATURE)

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 TICKET No. 433995
P.O. Box 1/3/ Eurice, New Mexico
II FOR THE PROPERTY FOR
LEASE OPERATOR/SHIPPER/COMPANY: E / C SCYUbbers
LEASE NAME: TIMEC TIMEC
TRANSPORTER COMPANY: NOW WOUL GENERATOR COMPANY GENERATOR COMPANY MAN'S NAME: ROSC STAGE
DATE: 10-10-17 VEHICLE NO: 50 MAN'S NAME: X COMMAN'S NAME
CHARGE TO: ETC AND NUMBER
TYPE OF MATERIAL
[] Production Water [] Drilling Fluids [] Rinsate
() Tank Bottoms () Contaminated Soil () Jet Out
[] Solids [] BS&W Content: [] Call Out
010
Description: C-133#
RRC or API #
VOLUME OF MATERIAL [] BBLS. : [YARD / C : []
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY AND REGULATIONS RELATED TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND OTHER WASTE THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY TICKET. TRANSPORTER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.
DRIVER: Clade Mal
(SIGNATURE)
FACILITY REPRESENTATIVE: (SIGNATURE)

Canary - Sundance Acct #1

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White - Sundance

Pink - Transporter

SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511

TICKET No. 433996

LEASE OPERATOR/SHIPPER/COMPANY:	TC	
LEASE NAME:	Field So	rubbens
TRANSPORTER COMPANY: MANY	IMAN Con	TIME 2/1 AMP
DATE: 10-110-17 VEHICLE NO: 1		TOR COMPANY DOSO
CHARGE TO: FTO	PIGA	MAN'S NAME: / (OSE SCIC)
Clinide To.		NUMBER
	TYPE OF MATERIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	Contaminated Soil	[] Jet Out
[] Solids	[] BS&W Content:	[] Call Out
Description:		
RRC or API #		C-133#
VOLUME OF MATERIAL [] BBLS.	: (XYARD //	2 : []
AS A CONDITION TO SUNDANCE SERVI TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, C TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SEITICKET. TRANSPORTER REPRESENTS A	AND WARRANTS THAT THE WASTI CONSERVATION AND RECOVERY AC' HEALTH AND SAF. CODE § 361.001 (NFFORDED DRILLING FLUIDS, PROE VELOPMENT OR PRODUCTION OF RVICES, INC.'S ACCEPTANCE OF THE	E MATERIAL SHIPPED HEREWITH IS TOF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OR MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY
FACILITY FOR DISPOSAL.	NOW DELIVERED BY TRANSPORT	ER TO SUNDANCE SERVICES, INC.'S
THIS WILL CERTIFY that the above Transpe above described location, and that it was ter materials were added to this load, and that th	idered by the above described shinn	per This will certify that no additional
DRIVER: JOH Perez		
FACILITY REPRESENTATIVE: (SIGNATURE)	Baheua	
White - Sundance	Canary - Sundance Acct #1	Pink - Transporter

SUNDANCE SERV P.O. Box 1737 Eunice, New M	TICES, Inc. TICKET No. 433997
(575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY: E LEASE NAME: # 3	Field SCYUBBEYS TIME 9:47 EMYPM
TRANSPORTER COMPANY: // / / / / / VEHICLE NO:	GENERATOR COMPANY ROSE SUCCESSION
DATE: // VERICEE ITS	RIG NAME AND NUMBER
CHARGE TO: £/C	AND NUMBER
	TYPE OF MATERIAL
Production Water [] Tank Bottoms [] Solids	[] Drilling Fluids [] Rinsate [] Contaminated Soil [] Jet Out [] BS&W Content: [] Call Out
Description:	C-133#
RRC or API #	1 (upp //) : []
VOLUME OF MATERIAL [] BBLS.	YARD /
AS A CONDITION TO SUNDANCE SER TICKET, OPERATOR/SHIPPER REPRESENT MATERIAL EXEMPT FROM THE RESOURCE TO TIME, 40 U.S.C. § 6901, et seq., THE NI THERETO, BY VIRTUE OF THE EXEMPTION ASSOCIATED WITH THE EXPLORATION,	RVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB IS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS IS, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME IS, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME IS, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME IS, CONSERVATION AND REGULATIONS RELATED IN AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE IN AFFORDED DRILLING FLUIDS, PRODUCED OIL OR NATURAL GAS OR IDEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR
TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER	E SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB S AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY IT IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
THIS WILL CERTIFY that the above Tro	ansporter loaded the material represented by this Transporter Statement at the as tendered by the above described shipper. This will certify that no additional hat the material was delivered without incident.
	maco (Sa
(SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE) (SIGNATURE)	SPALLICA

Canary - Sundance Acct #1

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White - Sundance

Pink - Transporter

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

FACILITY REPRESENTATIVE:

White - Sundance

(SIGNATURE)

TICKET No. 434155

Pink - Transporter

(575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY: ETC.	
LEASE NAME: Tal #3 Field	SCYUNDERS TIME CHAMPAM
TRANSPORTER COMPANY: MEYVUANIAM	GENERATOR COMPANY DOCO STORAGE
DATE: 1/) - 17-17 VEHICLE NO: 10/	MAN'S NAME: A D'X SILLICUL
CHARGE TO: F. T.C	RIG NAME AND NUMBER
	MATERIAL
	rilling Fluids [] Rinsate
	ontaminated Soil [] Jet Out
· -	5&W Content: [] Call Out
O_{I}	!!
Description:	C-133#
RRC or API #	
VOLUME OF MATERIAL [] BBLS:	(1) YARD: []
TICKET, OPERATOR/SHIPPER REPRESENTS AND WARK MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATI TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH ANI THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED ASSOCIATED WITH THE EXPLORATION, DEVELOPMEN GEOTHERMAL ENERGY.	ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS ON AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME D SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE IT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR
TICKET. TRANSPORTER REPRESENTS AND WAR OPERATOR/SHIPPER TO TRANSPORTER IS NOW DEL FACILITY FOR DISPOSAL.	SE'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB RANTS THAT ONLY THE MATERIAL DELIVERED BY EVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
THIS WILL CERTIFY that the above Transporter loade above described location, and that it was tendered by the imaterials were added to this load, and that the material	d the material represented by this Transporter Statement at the he above described shipper. This will certify that no additional I was delivered without incident.

Canary - Sundance Acct #1



SUNDANCE SERVICES, Inc.

P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 TICKET No. 434130

LEASE OPERATOR/SHIPPER/COMPANY:	TC	
LEASE NAME: Ta/#	3 Field.	Serubbers
TRANSPORTER COMPANY: MENTLI	man Con	TIME 8 19 AN/PM
DATE: 10-17-17 VEHICLE NO:		TOR COMPANY ROSE SINCE
CHARGE TO: ETC		NAME NUMBER
7	YPE OF MATERIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	Contaminated Soil	[] Jet Out
[] Solids	[] BS&W Content:	[] Call Out
Description:		
RRC or API #	ie	⊋ C-133#
VOLUME OF MATERIAL [] BBLS	_: [YARD / 4	<u> </u>
AS A CONDITION TO SUNDANCE SERVICE	ES, INC.'S ACCEPTANCE OF THE	MATERIALS SHIPPED WITH THIS JOB

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

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

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

DRIVER: Laydo Nash

FACILITY REPRESENTATIVE: (SIGNATURE)

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

II IIII	ERVICES, Inc. 194-2511	TICKET	No. 434131
LEASE OPERATOR/SHIPPER/COMPANY:	ITC		
LEASE NAME: 301 #	2/(= 1/		
TRANSPORTER COMPANY: MODE	FIELD	Scruk	pers
DATE: // / VEHICLE NO	1 grun Cos		TIMES . P AMPA
CHARGE TO: LTC	OI	GENERATOR COMPANY MAN'S NAME:	Pose Stan
CIMAGE 10: RIC		RIG NAME AND NUMBER	Sull Sull
	TYPE OF MATERIAL		
[] Production Wate [] Tank Bottoms [] Solids Description:	Contaminated S BS&W Content:	[] Riı	t Out
RRC or API #			
VOLUMÉ OF MATERIAL [] BBLS.		C-133#	
AS A CONDITION TO SUNDANCE S TICKET, OPERATOR/SHIPPER REPRESEN MATERIAL EXEMPT FROM THE RESOURC TO TIME, 40 U.S.C. § 6901, et seq., THE N THERETO, BY VIRTUE OF THE EXEMPTIO ASSOCIATED WITH THE EXPLORATION, GEOTHERMAL ENERGY.	E, CONSERVATION AND RECOVE NM HEALTH AND SAF. CODE § 36 ON AFFORDED DRILLING FLUIDS DEVELOPMENT OR PRODUCTION	PRODUCED WATERS ON OF CRUDE OIL C	HIPPED HEREWITH IS AMENDED FROM TIME EGULATIONS RELATED 5, AND OTHER WASTE DR NATURAL GAS OR
ALSO AS A CONDITION TO SUNDANCE TICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Tranabove described location, and that it was materials were added to this load, and that	IS NOW DELIVERED BY TRANS	PORTER TO SUNDAN	AL DELIVERED BY NCE SERVICES, INC.'S
DRIVER: JOSE PLUEZ (SIGNATURE) FACILITY REPRESENTATIVE:	The house	us inclaent.	
(SIGNATURE) White - Sundance	Canary - Sundance Acct #1	Pink - Transp	

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Pink - Transporter

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

TICKET No. 434132

(575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY: FIC	
LEASE NAME:)a/#3 Field 5	crubbers
TRANSPORTER COMPANY: MORRUMAN LOS	TIMES: 2/ AM)PM
DATE: 10-17-17 VEHICLE NO: 15	ENERATOR COMPANY ROSE SIONE
CHARGETO: ETC	RIG NAME AND NUMBER
TYPE OF MATERIAL	
[] Production Water [] Drilling Fluids	[] Rinsate
[] Tank Bottoms (Contaminated Soil	[] Jet Out
[] Solids [] BS&W Content:	[] Call Out
Description:	!
RRC or API #	C-133#
	1
VOLUMÉ OF MATERIAL [] BBLS: YARD_	<u> </u>
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE MATERIAL EXEMPT FROMTHE RESOURCE, CONSERVATION AND RECOVER TO TIME, 40 U.S.C. § 6901, et seq., the NM HEALTH AND SAF. CODE § 361 THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION GEOTHERMAL ENERGY.	WASTE MATERIAL SHIPPED HEREWITH IS RY ACT OF 1976, AS AMENDED FROM TIME I.001 et seq., AND REGULATIONS RELATED PRODUCED WATERS, AND OTHER WASTE ON OF CRUDE OIL OR NATURAL GAS OR
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE O TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT O OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANS FACILITY FOR DISPOSAL.	NLY THE MATERIAL DELIVERED BY
THIS WILL CERTIFY that the above Transporter loaded the material representation above described location, and that it was tendered by the above described materials were added to this load, and that the material was delivered with	shipper. This will certify that no additional
DRIVER: Jawbo Velazyuez FACILITY REPRESENTATIVE:	
(SIGNATURE)	Pink - Transporter
White - Sundance Canary - Sundance Acct #1	rink - nansporter

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

TICKET No. 434150

(575) 394-251	1
LEASE OPERATOR/SHIPPER/COMPANY:	=7C
LEASE NAME: $\sqrt{a/#3}$	Field Scrubbers
TRANSPORTER COMPANY: WE WILL	MAIN ON TIME 43 AMPIN
DATE: / / / VEHICLE NO: /2	GENERATOR COMPANY KOSK STANLE
CHARGETO: KTC	RIG NAME AND NUMBER
	TYPE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
· [] Tank Bottoms	Contaminated Soil
[] Solids /)	[] BS&W Content: [] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS.	: YARD
TICKET, OPERATOR/SHIPPER REPRESENTS MATERIAL EXEMPT FROM THE RESOURCE, C TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DE GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SEI TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transport	ICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE EVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR RIVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S NOTER loaded the material represented by this Transporter Statement at the indered by the above described shipper. This will certify that no additional the material was delivered without incident.
DRIVER: Laude 1/45 A (SIGNATURE) FACILITY REPRESENTATIVE:	Bakers
(SIGNATURE)	MALLE
White - Sundance (Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc. 434156 P.O. Box 1737 Eunice, New Mexico 88231 TICKET No. (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: VEHICLE NO: GENERATOR COMPANY MAN'S NAME **CHARGE TO:** RIG NAME AND NUMBER TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms Contaminated Soil [] Jet Out [] Solids [] BS&W Content: [] Call Out Description: RRC or API # C-133# **VOLUME OF MATERIAL** [] BBLS. YARD [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S **FACILITY FOR DISPOSAL.** THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. **DRIVER:**

Canary - Sundance Acct #1

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Pink - Transporter

FACILITY REPRESENTATIVE:

White - Sundance

(SIGNATURE)

SUNDANCE SERVICES, Inc. TICKET No. 434166 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: GENERATOR COMPANY MAN'S NAME **VEHICLE NO:** DATE: RIG NAME AND NUMBER CHARGE TO: TYPE OF MATERIAL [] Rinsate [] Production Water [] Drilling Fluids **Contaminated Soil** [] Jet Out [] Tank Bottoms [] Call Out [] BS&W Content: [] Solids Description: C-133# RRC or API# YARD__ [] [] BBLS. **VOLUME OF MATERIAL** AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB

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

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

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

DRIVER: Uack Mask

(SIGNATURE)

FACILITY REPRESENTATIVE: SBULLUL

Pink - Transporter

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

TICKET No. 434175

(5/5) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY:	TC
LEASE NAME:	3 Field Schubbers
TRANSPORTER COMPANY: WORLD	21 MM (M TIME//:3-3/AM)PM
DATE:// VEHICLE NO:	GENERATOR COMPANY ROSE STOWN
CHARGETO: ETC	RIG NAME AND NUMBER
Т	TYPE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	[] Jet Out
[] Solids	[] BS&W Content: [] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS.	:
TICKET, OPERATOR/SHIPPER REPRESENTS AI MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM HE THERETO, BY VIRTUE OF THE EXEMPTION AF ASSOCIATED WITH THE EXPLORATION, DEVI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICKET. TRANSPORTER REPRESENTS AN OPERATOR/SHIPPER TO TRANSPORTER IS N FACILITY FOR DISPOSAL	ES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS INSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME EALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED FORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR WICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB NO WARRANTS THAT ONLY THE MATERIAL DELIVERED BY TOWN DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S Interloaded the material represented by this Transporter Statement at the dered by the above described shipper. This will certify that no additional temperated without incident.
DRIVER: Jose Place Z (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE)	300
White - Sundance Ca	anary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc. 434179 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY: GENERATOR COMPANY MAN'S NAME: VEHICLÉ NO: RIG NAME AND NUMBER **CHARGE TO:** TYPE OF MATERIAL [] Rinsate [] Drilling Fluids [] Production Water [] Jet Out Contaminated Soil [] Tank Bottoms [] Call Out] BS&W Content: [] Solids Description: C-133# RRC or API # [] _ YARD **VOLUME OF MATERIAL** [] BBLS.

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

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

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

DRIVER: ______ AOOO VELAZGUET

FACILITY REPRESENTATIVE: ______

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511

TICKET No. 434186

1]. (5/5) 394-25)11
LEASE OPERATOR/SHIPPER/COMPANY:	5.7C
LEASE NAME: Jal #	3 Field Scrubbers.
TRANSPORTER COMPANY:	1 Man Con TIME/2 45 AMPM
DATE: // VEHÍCLÉ NÓ:	40 GENERATOR COMPANY POR SOCIAL
CHARGE TO: ETC	RIG NAME AND NUMBER
	TYPE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	[X] Contaminated Soil [] Jet Out
[] Solids	[] BS&W Content: [] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS.	: X1 YARD_/ C : []
TICKET, OPERATOR/SHIPPER REPRESENT MATERIAL EXEMPT FROM THE RESOURCE TO TIME, 40 U.S.C. § 6901, et seq., THE NATHERETO, BY VIRTUE OF THE EXEMPTION ASSOCIATED WITH THE EXPLORATION, I GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE STICKET. TRANSPORTER REPRESENTS OPERATOR/SHIPPER TO TRANSPORTER I FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transabove described location, and that it was	RVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS E, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME M HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED N AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S sporter loaded the material represented by this Transporter Statement at the tendered by the above described shipper. This will certify that no additional t the material was delivered without incident.
FACILITY REPRESENTATIVE: (SIGNATURE)	akua
White - Sundance	Canary - Sundance Acct #1 Pink - Transporter

SUND	ANCE SERVICES, Inc. PO. Box 1737 Eunice, New Mexico 88231 (575) 394-2511
=	P.O. Box 1737 Eunice, New 11737 (575) 394-2511
TT .	The three
1	- COMPANY: 7 /C + SAVIIMED
SE OPERATOR/SH	IIPPER/COMPANY: FILE STATE TIME J. CO. AM/PM)
NA NAE:	
ASE NAME:	PANY: MOUNT MANY GENERATOR COMPANY ROSE SCHOOL
ANSPORTER COM	VEHICLE NO: BIG NAME
ATE: //>-	VEHICLE NO. RIG NAME AND NUMBER
110 1 1	
HARGE TO:	Parallel
Miles	TYPE OF MATERIAL
	rhids
	[] Production Water [] Jet Out
	1 (31 Out
	[] Tank Bottoms [] BS&W Content:
	[] Solids
	////
•	C-133#
Descript	1/
RRC or API#	YARD /
nncorr	
TICKET, C MATERIA TO TIME, THERETC ASSOCIA GEOTHE ALSO TICKET OPERA FACILI	CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIAL SHIPPED HEREWITH SUPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH SUPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE ACT OF 1976, AS AMENDED FROM TIME EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME LEXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM THE NUMBER WASTE 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND OTHER WASTE 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND OTHER WASTE AND OTHER WASTE AND OTHER WASTE OF THE EXEMPTION OF CRUDE OIL OR NATURAL GAS OR ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S TORYSHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S TORYSHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S TORYSHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S TORYSHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S TORYSHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S TORYSHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S TORYSHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S TORYSHIPPER TO TRANSPORTER STATEMENT AT THE MATERIAL SHIPPED HEREWITH THE MATERIAL SH
4 -	Jose Revel
DR	IVER: JOSE REEL SIGNATURE!
-	Transporter
FA	
FA	White - Sundance Canary - Sundance Acct #1 PIRk - Trainspection White - Sundance Canary - Sundance Acct #1 Reorder from: Vertigo Creative Services LLC - www.VertigoCreative.com - Form#SDI-004

SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511

TICKET No. 434193

LEASE OPERATOR/SHIPPER/COMPANY:	:7C	•
EASE NAME: 3	Field	Crubbers
RANSPORTER COMPANY: // PVY	mail Cer	TIME / / / AM
PATE: //)~ / / / VEHICLE NO: 50	GENER	NATOR COMPANY ROSCO SON
HARGE TO: F7C		SNAME
2/0	AN	ID NUMBER
T	YPE OF MATERIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	Contaminated Soil	[] Jet Out
[] Solids	[] BS&W Content:	[] Call Out
Description:		
RC or API #		C-133#
OLUME OF MATERIAL [] BBLS.	. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/
OCOME OF MINIERIAL [] BBL3.	:	· []
MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEATHERETO, BY VIRTUE OF THE EXEMPTION AFFINE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OF THE MATERIAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICTICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL.	NLTH AND SAF. CODE § 361.001 ORDED DRILLING FLUIDS, PRO LOPMENT OR PRODUCTION C CES, INC.'S ACCEPTANCE OF TH OWARRANTS THAT ONLY	1 et seq., and regulations related DDUCED waters, and other waste Of Crude Oil or natural gas or HE Materials shipped with this job
THIS WILL CERTIFY that the above Transporter above described location, and that it was tender materials were added to this load, and that the number of the state	red by the above described ship	oper. This will certify that no additional
(SIGNATURE)	ALVULA (L	Dial. Tanana
 -	nary - Sundance Acct #1	Pink - Transporter
Reorder from: Vertigo Creative So	ervices LLC • www.VertigoCreative.co	om • Form#SDI-004

SUNDANCE SERVICES, Inc.

FACILITY REPRESENTATIVE:

White - Sundance

(SIGNATURE)

TICKET No. 434220

Pink - Transporter

P.O. Box 1737 Eunice, New Mexic (575) 394-2511	0 88231
LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTER COMPANY: DATE: CHARGE TO: CHARGE TO:	Field Scrubbers TIMES, SAMPM GENERATOR COMPANY LOS SCAMPM RIG NAME AND NUMBER
TY	PE OF MATERIAL
[] Production Water [] Tank Bottoms [] Solids	[] Drilling Fluids [] Rinsate [] Contaminated Soil [] Jet Out [] BS&W Content: [] Call Out
Description:	C-133#
RRC or API # VOLUME OF MATERIAL [] BBLS	_: \(\sqrt{1}\) \(\sqrt{2}\) \(\sqrt{1}\) \(\sqrt{1}\)
AS A CONDITION TO SUNDANCE SERVICE TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, COI TO TIME, 40 U.S.C. § 6901, et seq., THE NM HE THERETO, BY VIRTUE OF THE EXEMPTION AFI ASSOCIATED WITH THE EXPLORATION, DEVI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICKET. TRANSPORTER REPRESENTS AN OPERATOR/SHIPPER TO TRANSPORTER IS N FACILITY FOR DISPOSAL.	ES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS INSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME ALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED FORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR WICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB IN WARRANTS THAT ONLY THE MATERIAL DELIVERED BY HOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S I

Canary - Sundance Acct #1

SUNDANCE SERVICES, Inc. TICKET No. 434222 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: AM/PM DATE: **VEHICLE NO:** GENERATOR COMPANY MAN'S NAME RIG NAME AND NUMBER **CHARGE TO:** TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms **Contaminated Soil** [] Jet Out [] Solids [] BS&W Content: [] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** [] BBLS. M YARD [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS

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

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

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

DRIVER: CRC PERCZ
(SIGNATURE)

FACILITY REPRESENTATIVE: (SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

TICKET No. 434225

(575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY:	Field Scrubbers
TRANSPORTER COMPANY: Merry	TIME 3; CHAMPM
VEHICLE NO:	GENERATOR COMPANY MANYS NAME: KUSE SLOCKE
DATE: ()-()-()-VERICLE NO.	RIG NAME AND NUMBER
CHARGETO: E C	AND NUMBER
T	YPE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	Contaminated Soil [] Jet Out
[] Solids	[] BS&W Content: [] Call Out
Description:	C-133#
RRC or API #	: X YARD / O : []
VOLUME OF MATERIAL [] BBLS.	
TICKET, OPERATOR/SHIPPER REPRESENTS A MATERIAL EXEMPT FROM THE RESOURCE, CC TO TIME, 40 U.S.C. § 6901, et seq., THE NM H THERETO, BY VIRTUE OF THE EXEMPTION A ASSOCIATED WITH THE EXPLORATION, DEV GEOTHERMAL ENERGY.	TES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS DISERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME DIEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED FFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE VELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR
TICKET. TRANSPORTER REPRESENTS A OPERATOR/SHIPPER TO TRANSPORTER IS FACILITY FOR DISPOSAL.	RVICES, INC:S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S
THIS WILL CERTIFY that the above Transp above described location, and that it was te materials were added to this load, and that t	orter loaded the material represented by this Transporter Statement at the ndered by the above described shipper. This will certify that no additional the material was delivered without incident.
DRIVER: SIGNATURE)	P 0
FACILITY REPRESENTATIVE:	
White - Sundance	Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511

TICKET No. 434240

(5/5) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY:	TC
LEASE NAME:	#3 Field Strubbers
TRANSPORTER COMPANY:	1 Man Con. TIMES: 05 AMPM)
DATE: // VEHICLE NO:	OL GENERATOR COMPANY ROSE SUCCE
CHARGE TO: ETC	RIG NAME AND NUMBER
T	PE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	Contaminated Soil
[] Solids	[] BS&W Content: [] Call Out
Description:	
RRC or API #	C-133#
VOLUME OF MATERIAL [] BBLS.	: XI YARD / O _: []
TICKET, OPERATOR/SHIPPER REPRESENTS AN MATERIAL EXEMPT FROM THE RESOURCE, CON TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEATHERETO, BY VIRTUE OF THE EXEMPTION AFF ASSOCIATED WITH THE EXPLORATION, DEVER GEOTHERMAL ENERGY.	S, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ID WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS INSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME ALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED CORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE CLOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR
TICKET, TRANSPORTER REPRESENTS AND	ICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB D WARRANTS THAT ONLY THE MATERIAL DELIVERED BY DW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
THIS WILL CERTIFY that the above Transport above described location, and that it was tende materials were added to this load, and that the	ter loaded the material represented by this Transporter Statement at the ered by the above described shipper. This will certify that no additional material was delivered without incident.
DRIVER: Jose Punz	7 1
FACILITY REPRESENTATIVE:	aheua
(SIGNATURE) White - Sundance Ca	anary - Sundance Acct #1 Pink - Transporter

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

(575) 394-2511

TICKET No. 434241

1)	
LEASE OPERATOR/SHIPPER/COMPANY:	76
LEASE NAME: Q # 5	3 Field Scruppers
TRANSPORTER COMPANY: MENT	Man Con TIME, O/ AMPM
DATE: 10-17 VEHICLE NO: 4	GENERATOR COMPANY MAN'S NAME: KOSL SLAVCO
CHARGETO: EIC	RIG NAME AND NUMBER
TYI	PE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	Contaminated Soil [] Jet Out
[] Solids \nearrow]	[] BS&W Content: [] Call Out
Description:	C-133#
RRC or API #	1/ //
VOLUME OF MATERIAL [] BBLS.	_:
TICKET, OPERATOR/SHIPPER REPRESENTS AND MATERIAL EXEMPT FROM THE RESOURCE, CONSTOTIME, 40 U.S.C. § 6901, et seq., THE NM HEA THERETO, BY VIRTUE OF THE EXEMPTION AFFOR ASSOCIATED WITH THE EXPLORATION, DEVEL GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICE TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL.	, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB D WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS SERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME LTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED DRIDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE OPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR CES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB OF WARRANTS THAT ONLY THE MATERIAL DELIVERED BY DW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
THIS WILL CERTIFY that the above Transports above described location, and that it was tende materials were added to this load, and that the r DRIVER: (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE)	er loaded the material represented by this Transporter Statement at the cred by the above described shipper. This will certify that no additional material was delivered without incident.
11	nary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc. 434242 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: ERATOR COMPANY VEHICLE NO: MAN'S NAME DATE RIG NAME AND NUMBER **CHARGE TO:** TYPE OF MATERIAL [] Drilling Fluids [] Rinsate [] Production Water Contaminated Soil [] Jet Out [] Tank Bottoms [] Call Out [] Solids Description: C-133# RRC or API # 1 YARD [] [] BBLS. **VOLUME OF MATERIAL** AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S **FACILITY FOR DISPOSAL.** THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER:

Canary - Sundance Acct #1

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Pink - Transporter

FACILITY REPRESENTATIVE:

White - Sundance

(SIGNATURE)

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

TICKET No. 434528

(3/3) 394-2311		
LEASE OPERATOR SHIPPER/COMPANY:		
LEASE NAME: LA 173 FIELD	Scribbers	
TRANSPORTER COMPANY: WOULD WIL		TIME/2: 37 AM/PN
DATE: () . (9 - /) VEHICLE 10: ()	GENERATO	R COMPANY DOES LOST
CHARGETO: ET C	RIG NA AND N	ME UMBER
1	TYPE OF MATERIAL	
[] Production Water	[] Prilling Fluids	[] Rinsate
[] Tank Bottoms	Contaminated Soil	[] Jet Out
[] Solids	[BS&W Content:	[] Call Out
Description:	010	
RRC or API #	le	C-133#
VOLUME OF MATERIAL [] BBLS	: YARD ZO	: []
AS A CONDITION TO SUNDANCE SERVICE TICKET, OPERATOR/SHIPPER REPRESENTS AS MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM HE THERETO, BY VIRTUE OF THE EXEMPTION AF ASSOCIATED WITH THE EXPLORATION, DEVI GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERV TICKET. TRANSPORTER REPRESENTS AN OPERATOR/SHIPPER TO TRANSPORTER IS NO FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transport above described location, and that it was tend materials were added to this load, and that the	ND WARRANTS THAT THE WASTE NSERVATION AND RECOVERY ACT SALTH AND SAF. CODE § 361.001 et FORDED DRILLING FLUIDS, PRODUCTION OF ELOPMENT OR PRODUCTION OF THE NID WARRANTS THAT ONLY TOW DELIVERED BY TRANSPORTED SET IN THE NID WARRANTS THAT ONLY TOW DELIVERED BY TRANSPORTED SET IN THE NID WARRANTS THAT ONLY TOW DELIVERED BY TRANSPORTED SET IN THE NID WARRANTS THAT ONLY TOWN DELIVERED BY TRANSPORTED SET IN THE NID WARRANTS THAT ONLY TOWN DELIVERED BY TRANSPORTED SET IN THE NID WARRANTS THAT ONLY TOWN DELIVERED BY TRANSPORTED SET IN THE NID WARRANTS THAT ONLY TOWN DELIVERED BY TRANSPORTED SET IN THE NID WARRANTS THAT ONLY THE NID WARRANTS T	MATERIAL SHIPPED HEREWITH IS OF 1976, AS AMENDED FROM TIME E SEQ., AND REGULATIONS RELATED JCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OR MATERIALS SHIPPED WITH THIS JOB THE MATERIAL DELIVERED BY THE TO SUNDANCE SERVICES, INC.'S by this Transporter Statement at the Tr. This will certify that no additional
DRIVER: JOS PONE 7 (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE)	anary - Sundance Acct #1	Pink - Transporter

SUNDANCE SERVICES, Inc. 434527 P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: GENERATOR COMPAN MAN'S NAME VEHICLE NO DATE: RIG NAME AND NUMBER **CHARGE TO:** TYPE OF MATERIAL [] Drilling Fluids [] Rinsate [] Production Water [] Jet Out (Contaminated Soil [] Tank Bottoms [] Call Out [] BS&W Content: [] Solids Description: C-133# RRC or API# [] YARD [] BBLS. **VOLUME OF MATERIAL** AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S **FACILITY FOR DISPOSAL.** THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. **DRIVER:** (SIGNATURE)

Canary - Sundance Acct #1

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004

Pink - Transporter

FACILITY REPRESENTATIVE:

White - Sundance

SUNDANCE SERVICES, Inc. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511

TICKET No. 434478

(575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY:	7
LEASE NAME: Jal #3 Full	Saubers
TRANSPORTER COMPANY: Merry	TIMEY: 27 AMPM
DATE: 10-19-17 VEHICLE NO: 46	GENERATOR COMPANY AND SLADE
CHARGE TO: ETC	RIG NAME (S)
Т	YPE OF MATERIAL
[] Production Water	[] _Drilling Fluids [] Rinsate
[] Tank Bottoms	Contaminated Soil
[] Solids	[] BS&W Content: [] Call Out
Description:	0/0
RRC or API #	la C-133#
VOLUME OF MATERIAL [] BBLS	_: <u>M</u> YARD_/O: []
TICKET, OPERATOR/SHIPPER REPRESENTS AI MATERIAL EXEMPT FROM THE RESOURCE, CO TO TIME, 40 U.S.C. § 6901, et seq., THE NM HE THERETO, BY VIRTUE OF THE EXEMPTION AF ASSOCIATED WITH THE EXPLORATION, DEVI GEOTHERMAL ENERGY.	ES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB ND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS INSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME EALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED FORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR
TICKET. TRANSPORTER REPRESENTS AN	ND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY IOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S
above described location, and that it was tend materials were added to this load, and that the	
DRIVER: Lande Nash	
FACILITY REPRESENTATIVE: (SIGNATURE)	ah Herrera
White - Sundance C	Canary - Sundance Acct #1 Pink - Transporter

SUNDANCE SERVICES, Inc. PO Roy 1737 Eunice. New Mexico 88231

TICKET No. +34479

P.O. Box 1737 Eunice, New Mexico (575) 394-2511	
LEASE OPERATOR/SHIPPER/COMPANY:	
LEASE NAME: ON THE	\sim
TRANSPORTER COMPANY: WIMM	nan Const. TIMES S AMPM
DATE: //) /9. / VEHICLE NO:	GENERATOR COMPANY COOL SLADU
	RIG NAME AND NUMBER
CHARGETO: C	ANU NUMBER
Т	YPE OF MATERIAL
[] Production Water	[] Drilling Fluids [] Rinsate
[] Tank Bottoms	Contaminated Soil [] Jet Out
[] Solids	[] BS&W Content: [] Call Out
	010
Description:	(Q C-133#
RRC or API #	
VOLUME OF MATERIAL [] BBLS	YARD LO : II
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	orter loaded the material represented by this Transporter Statement at the additional and the above described shipper. This will certify that no additional the material was delivered without incident.
DRIVER: OSE FINE Z (SIGNATURE) FACILITY REPRESENTATIVE: (SIGNATURE)	ahlemen
White - Sundance	Canary - Sundance Acct #1 Pink - Transporter
Reorder from: Vertigo Creat	ive Services LLC • www.VertigoCreative.com • Form#SDI-004

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

TICKET No. +34430

(575) 394-2511		
LEASE OPERATOR/SHIPPER/COMPANY:		
LEASE NAME: AL #3	•	
TRANSPORTERCOMPANY: Meruman	Count.	TIME 7-48 (AMPM
DATE://) ·/ / VEHICLE NO:		ATOR COMPANY RODE Slade
CHARGETO: ETC		NAME D NUMBER
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[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	Leontaminated Soil	[] Jet Out
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FACILITY REPRESENTATIVE: (STONATURE)	10h +ferr	era
White - Sundance Car	nary - Sundance Acct #1	Pink - Transporter

SUNDANCE SERVICES, Inc. +34490 TICKET No. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: **VEHICLE NO** GENERATOR COMPANY MAN'S NAME **CHARGE TO:** RIG NAME **TYPE OF MATERIAL** [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms Contaminated Soil [] Jet Out [] Solids **BS&W Content:** [] Call Out Description: RRC or API # C-133# **VOLUME OF MATERIAL** [] BBLS.__ YARD []_ AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF, CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S **FACILITY FOR DISPOSAL.**

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional

FACILITY REPRESENTATIVE:

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

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

TICKET No. +34494

(575) 394-2511		
LEASE OPERATOR/SHIPPER/COMPANY:		
LEASE NAME: Jal #3 Fiolo	Sempler	
TRANSPORTER COMPANY: MUMM	an comt	TIME //)./ TAM/PM
DATE: VEHICLE NO:		OR COMPANY ROLL State
CHARGETO: ETC	RIG N AND I	AME NUMBER
ТҮ	PE OF MATERIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate
[] Tank Bottoms	Contaminated Soil	[] Jet Out
[] Solids	[] BS&W Content:	[] Call Out
Description:	OLD	
RRC or API #	us	C-133#
VOLUME OF MATERIAL [] BBLS.	: XLYARD	: []
AS A CONDITION TO SUNDANCE SERVICES, TICKET, OPERATOR/SHIPPER REPRESENTS AND MATERIAL EXEMPT FROM THE RESOURCE, CONSTOTIME, 40 U.S.C. § 6901, et seq., THE NM HEAI THERETO, BY VIRTUE OF THE EXEMPTION AFFOR ASSOCIATED WITH THE EXPLORATION, DEVELORED HERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES.	O WARRANTS THAT THE WASTE SERVATION AND RECOVERY ACT TH AND SAF. CODE § 361.001 e ORDED DRILLING FLUIDS, PROD OPMENT OR PRODUCTION OF SES. INC.'S ACCEPTANCE OF THE	E MATERIAL SHIPPED HEREWITH IS FOF 1976, AS AMENDED FROM TIME et seq., AND REGULATIONS RELATED DUCED WATERS, AND OTHER WASTE CRUDE OIL OR NATURAL GAS OR
TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NOV FACILITY FOR DISPOSAL.	V DELIVERED BY TRANSPORTE	ER TO SUNDANCE SERVICES, INC:'S
THIS WILL CERTIFY that the above Transporter above described location, and that it was tendere materials were added to this load, and that the m	ed by the above described shipp	er. This will certify that no additional
DRIVER: OSE Puez		
FACILITY REPRESENTATIVE:	ardy	
White - Sundance Cana	ary - Sundance Acct #1	Pink - Transporter

SUNDANCE SERVICES, Inc. 434496 TICKET No. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAMI TRANSPORTER GENERATOR COMPANY MAN'S NAME: VEHICLE NO! RIG NAME AND NUMBE CHARGE TO: TYPE OF MATERIAL [] Rinsate [] Drilling Fluids [] Production Water [] Jet Out Contaminated Soil [] Tank Bottoms [] Call Out **BS&W Content:** [] Solids Description: C-133# RRC or API # [] (/) YARD **VOLUME OF MATERIAL** [] BBLS. AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB

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

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DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

White - Sundance

(SIGNATURE

Canary - Sundance Acct #1

Pink - Transporter

SUNDANCE SERVICES, Inc. 134548 TICKET No. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY: DATE: VEHICLE NO: GENERATOR COMPANY MAN'S NAME: **CHARGE TO:** RIG NAME AND NUMBER TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms Contaminated Soil [] Jet Out [] Solids [\] BS&W Content: [] Call Out 010 Description: RRC or API# C-133# **VOLUME OF MATERIAL** [] BBLS. V YARD []

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH 1S MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: (SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

43456U SUNDANCE SERVICES, Inc. TICKET No. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: embers LEASE NAME: TRANSPORTER COMPANY: GENERATOR COMPANY MAN'S NAME: VEHICLE NO DATE: RIG NAME AND NUMBER CHARGE TO: TYPE OF MATERIAL [] Rinsate [] Drilling Fluids [] Production Water [] Jet Out Contaminated Soil [] Tank Bottoms [] Call Out [] BS&W Content: [] Solids C-133# Description: RRC or API # [] YARD [] BBLS. **VOLUME OF MATERIAL**

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

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FACILITY REPRESENTATIVE

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

SUNDANCE SERVICES, Inc. 434569 TICKET No. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: **LEASE NAME:** TRANSPORTER COMPANY AM/I GENERATOR COMPANY MAN'S NAME RIG NAME AND NUMBER **CHARGE TO:** TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate Contaminated Soil [] Tank Bottoms [] Jet Out [] Solids **BS&W Content:** [] Call Out Description: RRC or API # C-133# **YARD VOLUME OF MATERIAL** [] BBLS. [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY

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

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

P.O. Box 1737 Eunice, New (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY:		TICKET No.	434542
TRANSPORCER COMPANY: W	Scubber	>	
DATE: 0.19.17 VEHICLE NOW (GENI	ERATOR COMPANY MAN'S NAME OF THE PROPERTY OF T	El:06 AM/PM
I Production Water I Tank Bottoms I Solids Description:	[] Drilling Fluids [] Contaminated Soil [] BS&W Content:	[] Rinsate [] Jet Out [] Call Out	
VOLUME OF MATERIAL [] BBLS.	: Wyard /	C-133#	
AS A CONDITION TO SUNDANCE SERVICES, TICKET, OPERATOR/SHIPPER REPRESENTS AND MATERIAL EXEMPT FROM THE RESOURCE, CONS TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEAL THERETO, BY VIRTUE OF THE EXEMPTION AFFOR ASSOCIATED WITH THE EXPLORATION, DEVELOR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICE TICKET. TRANSPORTER REPRESENTS AND OPERATOR/SHIPPER TO TRANSPORTER IS NOW FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the above Transporter Icabove described location, and that it was tendered materials were added to this load, and that the materials	THE AND SAF. CODE § 361,001 & RODE OF THE INTERPRETATION OF PRODUCTION OF THE INTERPRETATION OF THE INTERPRETA	MATERIALS SHIPPED WE MATERIAL SHIPPED TO F 1976, AS AMENDED TO F 1976, AS AMENDED WATERS, AND O CRUDE OIL OR NATURAL SHIPPED WITHE MATERIAL DELIGIBLE OF TO SUNDANCE SERVER MATERIAL DELIGIBLE OF TO SUND	/ITH THIS JOB HEREWITH IS D FROM TIME DNS RELATED OTHER WASTE RAL GAS OR ITH THIS JOB IVERED BY //ICES, INC.'S
PACILITY REPRESENTATIVE:	Honrow	/	
White - Sundance Canary	- Sundance Acct #1		

SUNDANCE SERVICES, Inc. 434515 TICKET No. P.O. Box 1737 Eunice, New Mexico 88231 (575) 394-2511 LEASE OPERATOR/SHIPPER/COMPANY: LEASE NAME: TRANSPORTED COMPANY: ИM GENERATOR COMPANY MAN'S NAME **CHARGE TO:** RIG NAME AND NUMBER **TYPE OF MATERIAL** [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms Contaminated Soil [] Jet Out [] Solids [] Call Out Description: RRC or API# C-133# **VOLUME OF MATERIAL** YARD / C BBLS. []

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

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DRIVER: Laude 1/4-4

(SIGNATURE)

FACILITY REPRESENTATIVE: ATRAHAM

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mex. RECEIVED

Energy Minerals and Natura By JKeyes at 9:45 am, Aug 22, 2016

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

						OPERATOR				Final Repor		
Name of Company: Energy Transfer Co. Field Services						Contact: Johnnie Bradford						
Address: 600 N. Marienfeld Street					Telephone No. (432) 250-5542 (cell) (817) 302-9812 (off)							
Facility Name: Jal3 Gas Plant					Facility Type: Field Scrubber and Associated Tankage							
Surface Ow	пег:	New	Mexico	Mineral C	wner:				API No),		
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line Feet from the East/West Line County						
Ī	32	245	37E	265	North		40 East			Lea		
	Latitude 32°10'23.34 N Longitude 103°10'34.38 W											
				NAT	URE	OF REL	EASE					
Type of Relea							Release: 20 bbls			Recovered: 1.		
Source of Rel	lease: Field	Scrubber and	associate	l storage tankage.		Date and H 08/03/2016	our of Occurrence	e:	Date and 08/03/201	Hour of Disc	overy:	
Was Immedia	ste Notice C	Given?				If YES, To			00/03/20	0 -04:00		
			Yes 🗵	No 🗌 Not Re	quired	N/A						
By Whom? N						Date and H						
Was a Watero	ourse Reac	:hed?	Yes 🗵	No		If YES, Vo	dume Impacting the	he Wate	rcourse.			
If a Watercou	rse was Im	pacted, Descri	ibe Fully.				-					
A water cours	se was not o	effected during	g this relea	ise.								
Describe Cau	se of Proble	em and Remed	dial Action	ı Taken.*								
The Jal3 Gas	Plant was h	aving probler	ns with lic	uid carryover to i	nlet cor	nnression uni	is cansian nait chi	itrlowes	It was no	tud that the i	Gold co	en la base
dump valve w	ras not fund	tioning prope	rly at whic	th time the bypass	was or	pened to transi	fer the liquid in th	e field s	crubber in	lo storage lar	iks for	offsite
removal. Due	e to the volu	ume of liquids	, the stora	ge tanks overtopp	ed caus	ing a loss of c	ontainment. The	free liqu	iid was im	mediately rea	coverec	I via
vacuum iruc	K (~15 DDIS	i). Area or co	miaminati	on is being evalua	ited and	remedial acti	viltes initiated.					
Describe Area	a Affected t	and Cleanup A	Action Tak	en.*								
The affected :	area is armu	nd the tanks u	vith small	areas of run off to	the sun	et and couth a	Esha saalee - A maa s	uill ba a		- NMOCD	D	
Remediation .	Action Levi	els (RRALs) l	oy removii	ng contaminated s	oil and	si and south o back filling w	ith uncontaminate	wiii be n ed soil.	emediaied Contamina	ted soil will	he dist	menaea oosed at an
NMOCD app	roved landf	îll.		_								
I hereby certif	fy that the i	nformation ei	ven above	is true and compl	ete to th	ne hest of my	knowledge and ur	whitectan	d that nuce	unnt to NMC)CD ==	loc and
regulations at	l operators :	are required to	o report an	d/or file certain ru	elease n	otifications ar	d perform correct	ive actio	ons for rela	ases which i	nav end	danger
public health	or the envir	onment. The	acceptane	e of a C-141 repo	rt by the	2 NMOCD ma	arked as "Final Re	nort" do	es not reli	eve the nner	itor of	liability
or the environ	perations ni iment. In a	ave taned to a ddition. NMO	idequately ICD neces	investigate and re tance of a C-141 r	enculate	e contaminations pes not relieve	on that pose a thre	at to gre	ound water villey for or	, surface wat	er, hun	nan health
federal, state,	or local lav	vs and/or regu	lutions.		eport e		the operator of the	eshvitisti	Anny for Co	minimise wi	an any	Other
) .	Ω					OIL CONS	SERV	ATION	<u>DIVISIO</u>	N	
Signature:	Chunce	Madfor	el						4			į
					\neg	Approved by	Environmental Sp	ecialist:	Janit	Elyer .		
Printed Name	: Johnnie	Bradford		·	-	,	•	-				
Title: Sr. Environmental Specialist						Approval Date: 08/22/2016 Expiration Date: 10/22/2016						
E-mail Addre	ss: Jo hnnio	e.bradford@	energytra	nsfer.com		Conditions of	Approval:					
D					iscrete site sa	mples only. Delin	eate and	l remediate	Attached	↓↓ P 4408		
Date: 08/20)/2016			250-5542	P	er NMOCD g	uidelines.				1 7100	

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-144 Revised April 3, 2017

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.
Operator: _ETC Field Services OGRID #:
Address: _800 East Sonterra, San Antonio, TX, 78258
Facility or well name: Jal #3 Gas Plant - North Field Scrubber Dump Tank
API Number:OCD Permit Number:NA
U/L or Qtr/Qtr NE/SE Section 32 Township 24 S Range 37E County: Lea
Center of Proposed Design: Latitude 32.173178 Longitude -103.176506 NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Surface Owner. Tederal State M 111vate 111oat 11ast of indian / in
Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Drilling Workover Drilling Workover Drilling 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 Unlined Factory Other Volume: bbl Dimensions: L x W x D
3. X Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: 210bbl Type of fluid: _Pipeline Liquids
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
4. Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
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	
☐ Monthly inspections (If netting or screening is not physically feasible)	
7.	
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	
8.	
<u>Variances and Exceptions:</u> 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.	
9. 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 accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	☐ Yes 🗓 No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ 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)	☐ Yes ☐ No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
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).	☐ Yes 🏻 No
- Topographic map; Visual inspection (certification) of the proposed site	
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.	☐ Yes ☐ No
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
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

☐ Yes ☐ No	
☐ Yes ☐ No	
☐ Yes ☐ No	
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 documents 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 NMAC 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 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 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	
uments are	

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 a	documents are
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 □ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC □ Leak Detection 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 19.15.17.12 NMAC 	
Freeboard and Overtopping Prevention 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 Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 	
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 Fl	uid Management Pit
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	
14.	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ 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 ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - 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	ittached to the
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ 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 map; Topographic map; Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	
	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	
Within a 100-year floodplain.	Yes No
- FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and bel	lief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18.	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:	
OCD Representative Signature: Approval Date:	g the closure report. t complete this
OCD Representative Signature:	g the closure report. t complete this 3, 2017

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report	t is true, accurate and complete to the best of my knowledge and
belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print): Rose Slade	Title: Senior Environmental Specialist
Name (Print): Rose Slade Signature: Doll Call	10/8/1/2
Signature.	Date:
e-mail address: Rose.Slade@energytransfer.com	Telephone: 210-403-6525 Ext. 6525

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

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

Form C-144 Revised April 3, 2017

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.

Proposed Alternative Method Permit or Closure Plan Application

1 toposed Atternative Wethou Termit of Closure Train 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.		
Operator: _ETC Field Services OGRID #:		
Address: 800 East Sonterra, San Antonio, TX, 78258		
Facility or well name: _Jal #3 Gas Plant - North Field Scrubber Dump Tank		
API Number: OCD Permit Number: _NA		
U/L or Qtr/Qtr NE/SE Section 32 Township 24 S Range 37E County: Lea		
Center of Proposed Design: Latitude 32.173122 Longitude -103.176511 NAD83		
Surface Owner: Federal State Private Tribal Trust or Indian Allotment		
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 Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D L		
3.		
■ Subsection I of 19.15.17.11 NMAC		
Volume: 210bbl Type of fluid: _Pipeline Liquids		
Tank Construction material: Fiberglass		
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off		
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other		
Liner type: Thicknessmil		
4. Alternative Method:		
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	
☐ Monthly inspections (If netting or screening is not physically feasible)	
7.	
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	
8.	
<u>Variances and Exceptions:</u> 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.	
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9. 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 accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	☐ Yes 🗓 No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ 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)	☐ Yes ☐ No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
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).	☐ Yes 🏻 No
- Topographic map; Visual inspection (certification) of the proposed site	
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.	☐ Yes ☐ No
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
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

☐ Yes ☐ No	
☐ Yes ☐ No	
☐ Yes ☐ No	
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 documents 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 NMAC 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 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 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	
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Freeboard and Overtopping Prevention 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 Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 	
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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 Fl	uid Management Pit
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	
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Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ 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 ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - 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	ittached to the
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Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ 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 map; Topographic map; Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	
	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	
Within a 100-year floodplain.	Yes No
- FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and bel	lief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18.	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:	
OCD Representative Signature: Approval Date:	g the closure report. t complete this
OCD Representative Signature:	g the closure report. t complete this 3, 2017

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this obelief. I also certify that the closure complies with all applicable closure to	closure report is true, accurate and complete to the best of my knowledge and requirements and conditions specified in the approved closure plan.
Name (Print): Rose Slade	Title: Senior Environmental Specialist
Name (Print): Rose Slade Signature: 1000 Hade	Date: 12/8/14
e-mail address: Rose Slade@energytransfer.com	Telephone 210-403-6525 Fyt 6525