

#### www.CRAworld.com





# Summary of Remediation Activities

Lovington Paddock Unit #96 Unit N, Section 31, Township 16S, Range 37E Lea County, New Mexico RP #1665

Prepared for: Mr. Kegan Boyer Chevron Environmental Management Company 1400 Smith Street, Room 07086 Houston, Texas 77002

# **Conestoga-Rovers & Associates**

6121 Indian School Road, NE Suite 200 Albuquerque, New Mexico 87110



2014 • 073816 • Report No. 3

#### **Table of Contents**

#### Page

Section 1.0	Introduction	1
Section 2.0	Site History/Assessment	1
Section 3.0	Soil Assessment and Remedial Activities	2
	3.1 Excavation and Soil Sampling	2
	3.2 Waste Management	3
	3.3 Lining and Backfilling of Excavation	3
Section 4.0	Summary of Soil Assessment and Remedial Activiti	es3
Section 5.0	Proposed Scope of Work	4
	5.1 Phase 1: Soil Boring and Sampling Program	4
	5.2 Phase 2, Task 1: Groundwater Monitoring Well I	nstallation (Contingent)5
	5.3 Phase 2, Task 2: Quarterly Groundwater Monito	ring (Contingent)6
	5.4 Schedule	6

#### **List of Figures** (Following Text)

- Figure 1 Site Location Map
- Figure 2 Depth to Groundwater Map
- Figure 3 Site Detail Map
- Figure 4 Proposed Boring Location Map

#### **List of Tables** (Following Text)

Table 1 Soil Analytical Summary



## List of Appendices

- Appendix A Analytical Results
- Appendix B Waste Management Documentation



## Section 1.0 Introduction

Soil assessment and remedial activities were performed at the Lovington Paddock Unit (LPU) #96 site in Lea County, New Mexico, from November 11, 2013 to November 19, 2013. The Chevron LPU #96 site (hereafter referred to as the "Site"), is located in Section 31 (Unit N), Township 16 South, Range 37 East, Lea County, New Mexico (Figure 1).

The scope of work for the project was developed between Chevron Environmental Management Company (CEMC), New Mexico Oil Conservation Division (NMOCD), and Conestoga-Rovers and Associates (CRA) personnel. CRA performed project management, general oversight of the reclamation activities, soil sampling, and documentation of the field work. Excavation work was performed by Ron's Welding, Inc. (RWI) of Hobbs, New Mexico. The agreed upon scope of services included:

- Obtaining proper site specific training, permits, and involving appropriate stakeholders needed to conclude scope of work;
- Excavating approximately 250 cubic yards (yd<sup>3</sup>) of impacted soils;
- Laying a liner in the bottom of the excavated area;
- Backfilling the excavated area with clean topsoil transported from an off-site source; and
- Grading the excavated area.

#### Section 2.0 Site History/Assessment

Chevron submitted a C-141 Form to the NMOCD dated November 19, 2007, describing a release of 5 barrels of produced brine from a polyethylene flow line with a reported release date of November 16, 2007. The C-141 reported that the released brine had a concentration of 35,300 parts per million (ppm) and impacted an area of surface soils approximately 30 feet in diameter. A remediation permit (RP) number, RP #1665, was assigned to this release incident by the NMOCD Hobbs office.

Surface soil samples were initially collected by Tetra Tech using a hand auger at two locations on July 15, 2010 to a depth of 6 inches. Samples were analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and chloride by Trace Analysis, Inc. of Lubbock, Texas. Analytical data from these samples indicated concentrations of the analytes were below the laboratory reporting limit (LRL). On August 18, 2010, trench samples from these same two locations were obtained from depths of 1 to 2 feet below ground surface (bgs) and analyzed for chlorides. Analytical data from these samples indicated concentrations of the analytes were below the laboratory reporting limit (LRL) (Table 1 and Appendix A). Based on a site visit conducted in April 2013, the site was unexcavated at that time.



On January 11, 2011, CRA, CEMC and Marcos Silvestri (Chevron contract PM) met at the NMOCD District I Hobbs office to discuss this project site. Topics of discussion included the results of assessment activities performed by Tetra Tech in 2010. On January 13, 2011, CRA submitted a closure request report and data information packet to the NMOCD for the Site as discussed in the January 11, 2011 meeting.

On April 13, 2011, the NMOCD Hobbs district office approved the proposed remedial activities described in the closure request reports and outlined in the January 13, 2011 correspondence. Excavation and soil sampling was performed in accordance with the scope of work that was approved by the NMOCD District I Hobbs office.

## Section 3.0 Soil Assessment and Remedial Activities

According to the Petroleum Recovery Research Center's (PRRC) Web Mapping Portal, the local depth to groundwater is between 50 and 99 feet bgs (see Figure 2). Therefore, the NMOCD established RRALs for the Site are 10 ppm for benzene, 50 ppm for total BTEX, 1,000 ppm for total TPH, and 250 for chlorides (see table below). The chloride RRALs are based on draft NMOCD Guidance for Release Reporting and Corrective Actions document (September 30, 2011).

New Mexico Oil Conservation Division Site Assessment							
Ranking Criteria	Score						
Depth to Ground Water (50 ft - 99 ft)	10						
Wellhead Protection Area (< 1000 ft water source, < 200 ft domestic source)	0						
Distance to Surface Body Water (200 ft - 1000 ft)	0						
Ranking Criteria Total Score	10*						
*Because the ranking criteria total score is 10, NMOCD established RRALs are 10 pp Benzene, 50 ppm for BTEX, 1,000 ppm for total TPH, and 250 ppm for chlorides.	m for						

## 3.1 Excavation and Soil Sampling

Field screening of soils for TPH and chlorides were performed to guide excavation activities. As the excavation proceeded, it became evident from the field screening results that the amount of soil that would have to be removed to comply with the RRALs would exceed the 250 yd<sup>3</sup> that was originally agreed to in the work plan. Excavation operations were halted once a total of approximately 248 yd<sup>3</sup> of impacted soil had been removed.

Confirmatory soil samples were collected from eight locations throughout the excavation (see Figure 3). Soil samples were analyzed by Xenco Laboratories of Odessa, Texas for BTEX, TPH, and chlorides. The analytical results confirmed that the samples exceeded the RRALs for BTEX, TPH, chlorides, or a combination of the three (see Table 1 and Appendix A).



The exception was the northernmost sample, SS-073816-111413-CK-1, which was below RRALs for the contaminants of concern. Based on the analytical results, additional assessment work is being proposed.

## 3.2 Waste Management

The impacted soil was transported by RWI to the Sundance Services, Inc. (Parabo) facility of Eunice, New Mexico, for disposal. The soil was transported as exempt waste in accordance with the signed C-138 form (see Appendix B). Copies of the bills of lading for the soils can be found in Appendix B.

## 3.3 Lining and Backfilling of Excavation

A 20 mil poly liner was placed over the excavated area to minimize further migration of contaminants, then backfilled with clean topsoil. Clean topsoil was obtained from the borrow pit located west of the intersection of State Roads 238 and 50 (Buckeye). Clean topsoil was excavated using a backhoe and placed into 10-wheel dump trucks for transportation to the site. Approximately 204 yd<sup>3</sup> of clean topsoil material was transported from the borrow pit and used to backfill the excavation. This is less than the estimated excavated volume which was 248 yd<sup>3</sup>. The discrepancy in the excavated soil versus the backfill material is believed to be due to the reported versus actual truck volumes. All of the trucks hauling the excavated material were reported to have hauled 20 yd<sup>3</sup>. However, generally these trucks cannot haul more than 18 yd<sup>3</sup> without exceeding legal load weights.

The clean fill was then graded to match the ground surface and wheel-rolled using a backhoe. Green pin flags were placed at the edges of the excavated area for future reference.

## Section 4.0 Summary of Soil Assessment and Remedial Activities

The following is a summary of project milestones and work performed to date:

- A site visit conducted in April 2013 by CRA confirmed that the site was unexcavated.
- In November 2013, approximately 248 yd<sup>3</sup> of impacted soil were excavated. This soil was transported to the Sundance (Parabo) landfill near Eunice, NM.
- Confirmatory soil samples were collected from eight locations. The analytical results confirmed that all samples except the northernmost portion of the remedial excavation exceeded the NMOCD RRALs for BTEX, TPH, chlorides, or a combination of the three.
- The excavation was lined, backfilled, and graded to ground surface.

#### Section 5.0 Proposed Scope of Work

The analytical data obtained during the assessment and remedial activities indicates that additional assessment work is needed to delineate soil impacts to RRALs. Work is being proposed in two phases. The first phase will further assess the horizontal and vertical extent of petroleum hydrocarbons and chlorides in the vadose zone. This phase will also assess the potential for these compounds to impact the groundwater table. A second (contingent) phase of work is also presented. Phase 2 can be implemented if CEMC and CRA concur that significant impacts in the vadose zone from Phase 1 activities warrant the installation of groundwater monitoring wells for impact evaluation.

#### 5.1 Phase 1: Soil Boring and Sampling Program

For budgeting purposes, CRA proposes to advance five soil borings within and surrounding the release area. Additional borings may be required to assess the horizontal extent of petroleum hydrocarbon and chloride concentrations in the soil. Specific activities for this task are:

- Coordination with CEMC and Field Management Team (FMT) personnel as well as other stakeholders.
- Prepare health and safety documents and obtain a MCBU Safe Digging and Excavation Permit.
- Advance a soil boring near the center of the area with the highest apparent soil concentration to either a depth of 80 ft bgs, the top of the groundwater table, or until field screening indicates the soil is below RRALs for the contaminants of concern. Drilling activities will be performed using a New Mexico licensed drilling subcontractor with a truck-mounted drill rig. Borings will be advanced using hollow stem auger, air rotary, or other appropriate drilling methodology. According to the PRRC Web Mapping Portal, the most recent local depth to groundwater is 72 ft bgs. Based on this information, New Mexico Office of the State Engineer (NMOSE) plugging permits will be obtained in the event that groundwater is encountered.
- Advance four additional soil borings around the perimeter of the excavated area to a depth of 40 ft bgs or until field screening indicates the soil is below RRALs (see Figure 4). Soil borings will be plugged with hydrated bentonite chips as appropriate.
- Cuttings and soil samples will be logged by CRA personnel according to the Unified Soil Classification System. Soil Samples will be collected at 5 ft bgs and every 5 ft thereafter as the borings are advanced. Field screening of soil samples for petroleum hydrocarbons will be performed using the heated headspace method and/or a PetroFlag Kit. The PetroFlag system is a colorimetric field screen method that is more sensitive to diesel and motor oil range hydrocarbons. Chlorides will be field screened by mixing soil samples with de-ionized water. The rinsate will be analyzed using Hach chloride test strips. Field screening results will help guide the field geologist in determining if additional or deeper soil borings are required to assess the extent of impacted soil.



• For budgeting purposes, three soil samples will be collected from each boring for laboratory analysis. The bottom-hole sample and the two samples indicating the highest field screening will be submitted for laboratory analysis. Soil sample collected for laboratory analysis will be placed into laboratory-supplied containers and labeled. The soil samples will be placed on ice and transported under chain of custody documentation to Xenco Laboratories of Odessa, Texas. Soil samples will be analyzed for TPH using EPA Method 8015B, BTEX using EPA Method 8021, and chlorides using EPA Method 300.1.

## 5.2 Phase 2, Task 1: Groundwater Monitoring Well Installation (Contingent)

If CEMC and CRA concur that results from Phase 1 indicate the potential for groundwater impacts, CRA proposes to install groundwater monitoring wells. Specific activities for this task are:

- Coordination with CEMC and FMT personnel as well as other stakeholders.
- Prepare health and safety documentation and obtain an MCU Safe Digging and Excavation Permit from the FMT.
- Well installation permits will be obtained from the NMOSE.
- For budgeting purposes, three borings will be advanced to a depth of approximately 100 ft bgs, each. Borings will be advanced using hollow stem auger, air rotary, or other appropriate drilling methodology. Samples will be collected at 5 ft bgs and every 5 ft thereafter as the borings are advanced. Cuttings and samples will be logged by CRA personnel according to the Unified Soil Classification System. Cuttings will be containerized and properly disposed of at a CEMC-approved waste facility.
- Each soil boring will be converted to a groundwater monitoring well. The groundwater monitoring well will be placed at a depth that will allow for the well screen to be 5 feet above and 10 feet below the apparent water table. Each groundwater monitoring well will be constructed of 2-inch diameter, schedule 40, flush-joint, threaded polyvinyl chloride (PVC) casing and screen. Monitoring wells will consist of a 0.5-ft long, threaded PVC bottom plug and 15-ft long flush-joint, threaded, factory-slotted (0.020 inch) well screen.
- The annular space around the well screen will be filled with silica sand (10/20 gradation) from the bottom of the boring to approximately 2 ft above the well screen. A minimum of three ft of hydrated bentonite pellets will be placed above the silica sand. A cement/bentonite grout will be placed from the top of the bentonite pellets and extend to ground surface. The wellhead will be protected with an above-grade completion set within a minimum 24-inch by 24-inch by 4-inch thick concrete pad. Well construction logs will be filed with the NMOSE.
- Each well will be developed using a bailer and/or pump until water quality parameters stabilize and turbidity is significantly decreased. Excess fluids generated by well development will be containerized and properly disposed of at a CEMC-approved waste facility.



## 5.3 Phase 2, Task 2: Quarterly Groundwater Monitoring (Contingent)

CRA will conduct four quarterly groundwater monitoring and sampling events. The first of these quarters will be performed following installation of the five groundwater monitoring wells. The remaining sampling events will be performed approximately every three months following well installation.

Specific activities for this task are:

- Groundwater levels and total well depths will be measured and reported to the nearest onehundredth of a foot using an interface probe. The interface probe will be cleaned between wells.
- At least three well volumes will be purged from each monitoring well using a dedicated polyethylene
  1.5-inch disposable bailer or a submersible Monsoon pump prior to sampling. If three well volumes
  cannot be purged, wells will be purged until dry and allowed to recharge prior to sampling. Purge
  water generated will be containerized and properly disposed of at an approved waste facility.
  Geochemical field parameters including temperature, pH, conductivity, oxidation-reduction
  potential, and dissolved oxygen will be recorded.
- Groundwater samples will be placed into laboratory-supplied containers and labeled. They will be
  placed on ice and transported under chain of custody documentation to Xenco. Groundwater
  samples will be analyzed for TPH using EPA Method 8015B, BTEX using EPA Method 8021, and
  chlorides using EPA Method 300.0.
- Results from groundwater monitoring and assessment activities performed at the Site will be summarized in an annual report that will be provided to Chevron for submittal to the NMOCD. The annual report will be prepared during the quarter following the last sampling event. The annual report will include tabulated analytical and gauging data, groundwater gradient and contaminant of concern isopleths maps from the quarterly events, and recommendations for future activities at the Site.

## 5.4 Schedule

CRA is prepared to initiate the scope of work, subsequent to CEMC approval, the availability of drilling resources and stakeholder concurrence. The field work for the soil sampling program (Phase 1) is anticipated to take five days to complete. The field work for the contingent groundwater monitoring well installation program (Phase 2) is anticipated to take seven days to complete, not including any delays for inclement weather, rig access, or other unforeseen events. The field work for each quarterly groundwater sampling event is anticipated to take one day to complete. The scope of work for the Phase 2 activities is preliminary in nature. This scope may be modified depending on the results obtained in Phase 1. Our goal is to complete the work in an efficient manner without any incidents.



Recommendations for any remediation activities, as appropriate, will also be discussed with CEMC. Please feel free to contact the CRA Albuquerque office at (505) 884-0672 if there are any questions or additional information is required. Your timely response to this correspondence is appreciated.

All of which is Respectfully Submitted,

**CONESTOGA ROVERS & ASSOCIATES** 

Cale Kanack Staff Scientist

Bernard Bockisch, PMP Sr. Project Manager



Figures





Figure 1

SITE LOCATION MAP LOVINGTON PADDOCK UNIT #96 LEA COUNTY, NEW MEXICO Chevron Environmental Management Company



073816-00(000)GN-DL001 JAN 21/2014





073816-00(000)GN-DL001 MAR 4/2014



073816-00(000)GN-DL001 MAR 4/2014

Tables



#### Table 1 Soil Analytical Summary Lovington Paddock Unit #96 Lea County, New Mexico Chevron Environmental Management Company

Sample ID	Sample Date	Sample Depth	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	TPH Total (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
AH-1*	7/15/2010	0-6"	< 2.00	< 50.0		< 50.0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 200
AH-2*	7/15/2010	0-6"	< 2.00	< 50.0		< 50.0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 200
T-1*	8/18/2010	1.5-2'										< 200
T-2*	8/18/2010	1.5-2'										< 200
SS-073816-111413-CK-1	11/14/2013	1.5'	21	675	79.4	775	< 0.0011	< 0.0021	0.004	0.0038	0.0078	142
SS-073816-111413-CK-2	11/14/2013	1'	18.5	1480	170	1670	< 0.001	< 0.0021	0.0025	< 0.001	0.0025	96.8
SS-073816-111413-CK-3	11/14/2013	1'	28	1890	192	2110	< 0.0011	< 0.0021	< 0.0011	< 0.0011	< 0.0011	127
SS-073816-111413-CK-4	11/14/2013	1'	19.7	2130	191	2340	< 0.0011	< 0.0021	< 0.0011	< 0.0011	< 0.0011	157
SS-073816-111413-CK-5	11/14/2013	4'	3300	7290	882	11500	0.588	9.53	146	134	291	1260
SS-073816-111413-CK-6	11/14/2013	3.5'	3230	8560	1050	12800	0.129	6.77	17.6	61	85.5	1330
SS-073816-111413-CK-7	11/14/2013	3.5'	4150	10100	1120	15400	1.09	2.43	33.2	31.1	67.8	1210
SS-073816-111413-CK-8	11/14/2013	3.5'	3430	7700	843	12000	1.26	62.9	161	170	395	1380
NMOC	D RRALs					1000	10				50	250

Notes:

1. \* = Data collected by Tetra Tech

2. Highlighted values indicate exceedance of NMOCD regulatory limits

3. -- = Not analyzed

4. < = Value less than Reporting Limit (RL)

5. TPH = Total petroleum hydrocarbons

6. GRO/DRO/ORO = Gasoline/Diesel/Oil Range Organics

7. NMOCD = New Mexico Oil Conservation Division

8. RRALs = Recommended Remediation Action Levels

9. NMOCD RRALS based off of a vertical separation from groundwater less than 100'

# Appendix A

**Analytical Results** 



# **Analytical Report 474077**

for

Conestoga-Rovers & Associates-Albuquerque, NM

**Project Manager: Bernie Bockisch** 

Lovington Paddock Unit #96

## 073816

## 18-NOV-13

Collected By: Client





## 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-13-15-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)





18-NOV-13

Project Manager: Bernie Bockisch Conestoga-Rovers & Associates-Albuquerque, NM 6121 Indian School Rd. NE Suite 200

Albuquerque, NM 87110

Reference: XENCO Report No(s): 474077 Lovington Paddock Unit #96 Project Address: Lea County, NM

#### Bernie Bockisch:

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) 474077. 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. 474077 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.

spectfully, Mrs. Hoah

 

 Kelsey Brooks

 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 - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



# Sample Cross Reference 474077



# Conestoga-Rovers & Associates-Albuquerque, NM, Albuque

Lovington Paddock Unit #96

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-073816-111413-CK-1	S	11-14-13 14:45		474077-001
SS-073816-111413-CK-2	S	11-14-13 14:50		474077-002
SS-073816-111413-CK-3	S	11-14-13 14:55		474077-003
SS-073816-111413-CK-4	S	11-14-13 15:00		474077-004
SS-073816-111413-CK-5	S	11-14-13 15:35		474077-005
SS-073816-111413-CK-6	S	11-14-13 15:40		474077-006
SS-073816-111413-CK-7	S	11-14-13 15:45		474077-007
SS-073816-111413-CK-8	S	11-14-13 15:50		474077-008



# CASE NARRATIVE



Client Name: Conestoga-Rovers & Associates-Albuquerque, NM Project Name: Lovington Paddock Unit #96

 Project ID:
 073816

 Work Order Number(s):
 474077

 Report Date:
 18-NOV-13

 Date Received:
 11/14/2013

#### Sample receipt non conformances and comments:

#### Sample receipt non conformances and comments per sample:

None

**Analytical non conformances and comments:** Batch: LBA-927768 TPH By SW8015 Mod SW8015MOD\_NM

Batch 927768, 1-Chlorooctane, o-Terphenyl recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 474077-001.

Batch: LBA-927770 BTEX by EPA 8021B SW8021BM

Batch 927770, Benzene, Ethylbenzene, Toluene, m\_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 474077-005, -002, -006, -001, -004, -008, -003, -007. The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m\_p-Xylenes, o-Xylene is within laboratory Control Limits



Project Id: 073816

Contact: Bernie Bockisch

# Certificate of Analysis Summary 474077

Conestoga-Rovers & Associates-Albuquerque, NM, Albuquerque, NM

**Project Name: Lovington Paddock Unit #96** 



474077-006

SS-073816-111413-CK-6

SOIL

Nov-14-13 15:40

Nov-15-13 11:00

Nov-15-13 19:54

RL

0.113

0.0564

0.113

0.0564

0.0564

0.0564

0.0564

mg/kg

0.129

6.77

17.6

39.6

21.4

61.0

85.5

Date Received in Lab: Thu Nov-14-13 04:26 pm

Report Date: 18-NOV-13

Project Location: Lea County, NM Project Manager: Kelsey Brooks 474077-004 Lab Id: 474077-001 474077-002 474077-003 474077-005 Field Id: SS-073816-111413-CK-1 SS-073816-111413-CK-2 SS-073816-111413-CK-3 SS-073816-111413-CK-4 SS-073816-111413-CK-5 Analysis Requested Depth: SOIL SOIL SOIL SOIL Matrix: SOIL Sampled: Nov-14-13 14:45 Nov-14-13 14:50 Nov-14-13 14:55 Nov-14-13 15:00 Nov-14-13 15:35 BTEX by EPA 8021B Extracted: Nov-15-13 11:00 Nov-15-13 11:00 Nov-15-13 11:00 Nov-15-13 11:00 Nov-15-13 11:00 Nov-15-13 19:06 Nov-15-13 19:22 Nov-15-13 19:38 Analyzed: Nov-15-13 18:51 Nov-15-13 20:26 Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL mg/kg RL 0.00105 0.00104 ND 0.00107 0.00106 0.588 0.571 ND ND ND Benzene ND 0.00209 0.00209 ND 0.00213 ND 0.00211 9.53 Toluene ND 1.14 Ethylbenzene 0.00399 0.00105 0.00247 0.00104 0.00107 ND 0.00106 0.571 ND 146 0.00381 0.00209 0.00209 ND 0.00213 ND 0.00211 m\_p-Xylenes ND 111 1.14 o-Xylene ND 0.00105 ND 0.00104 ND 0.00107 ND 0.00106 23.4 0.571 Total Xylenes 0.00105 0.00381 ND 0.00104 ND 0.00107 ND 0.00106 134 0.571 Total BTEX 0.00780 0.00105 0.00247 0.00104 ND 0.00107 ND 0.00106 291 0.571

													I
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-15-13	11:00	Nov-15-13	11:00	Nov-15-13	11:00	Nov-15-13	1:00	Nov-15-13	11:00	Nov-15-13 1	1:00
	Analyzed:	Nov-15-13	16:08	Nov-15-13	16:31	Nov-15-13	14:38	Nov-15-13	5:00	Nov-15-13	12:44	Nov-15-13 1	3:30
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		142	10.5	96.8	10.5	127	10.7	157	10.6	1260	45.8	1330	45.2
Percent Moisture	Extracted:												
	Analyzed:	Nov-15-13	11:10	Nov-15-13	11:10	Nov-15-13	11:10	Nov-15-13	1:10	Nov-15-13	11:10	Nov-15-13 1	1:10
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.32	1.00	4.67	1.00	6.64	1.00	5.76	1.00	12.7	1.00	11.6	1.00
TPH By SW8015 Mod	Extracted:	Nov-15-13	11:00	Nov-15-13	11:00	Nov-15-13	11:00	Nov-15-13	1:00	Nov-15-13	11:00	Nov-15-13 1	1:00
	Analyzed:	Nov-15-13	16:14	Nov-15-13	16:32	Nov-15-13	16:56	Nov-15-13	7:29	Nov-15-13	14:33	Nov-15-13 1	4:57
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		21.0	15.7	18.5	15.7	28.0	16.1	19.7	15.9	3300	172	3230	170
C12-C28 Diesel Range Hydrocarbons		675	15.7	1480	15.7	1890	16.1	2130	15.9	7290	172	8560	170
C28-C35 Oil Range Hydrocarbons		79.4	15.7	170	15.7	192	16.1	191	15.9	882	172	1050	170
Total TPH		775	15.7	1670	15.7	2110	16.1	2340	15.9	11500	172	12800	170

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

Huns Boah

Kelsey Brooks Project Manager

Page 5 of 19



Project Id: 073816

Project Location: Lea County, NM

Contact: Bernie Bockisch

# Certificate of Analysis Summary 474077

Conestoga-Rovers & Associates-Albuquerque, NM, Albuquerque, NM

Project Name: Lovington Paddock Unit #96



Date Received in Lab: Thu Nov-14-13 04:26 pm

Report Date: 18-NOV-13

Project Manager: Kelsey Brooks

	Lab Id:	474077-0	007	474077-0	008			
A surface in Decouver of a I	Field Id:	SS-073816-111	413-CK-7	SS-073816-1114	413-CK-8			
Analysis Requested	Depth:							
	Matrix:	SOIL		SOIL				
	Sampled:	Nov-14-13	15:45	Nov-14-13	15:50			
BTEX by EPA 8021B	Extracted:	Nov-15-13	11:00	Nov-15-13	11:00			
	Analyzed:	Nov-15-13	16:38	Nov-15-13	20:41			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Benzene		1.09	1.09	1.26	0.567			
Toluene		2.43	2.30	62.9	1.13			
Ethylbenzene		33.2	1.15	161	0.567			
m_p-Xylenes		24.9	2.30	115	1.13			
o-Xylene		6.22	1.15	55.0	0.567			
Total Xylenes		31.1	1.15	170	0.567			
Total BTEX		67.8	1.09	395	0.567			
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-15-13	11:00	Nov-15-13	11:00			
	Analyzed:	Nov-15-13	13:52	Nov-15-13	14:15			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride		1210	46.2	1380	45.5			
Percent Moisture	Extracted:							
	Analyzed:	Nov-15-13	11:10	Nov-15-13	11:10			
	Units/RL:	%	RL	%	RL			
Percent Moisture		13.3	1.00	12.1	1.00			
TPH By SW8015 Mod	Extracted:	Nov-15-13	11:00	Nov-15-13	11:00			
	Analyzed:	Nov-15-13	15:15	Nov-15-13	15:39			
	Units/RL:	mg/kg	RL	mg/kg	RL			
C6-C12 Gasoline Range Hydrocarbons		4150	173	3430	171			
C12-C28 Diesel Range Hydrocarbons		10100	173	7700	171			
C28-C35 Oil Range Hydrocarbons		1120	173	843	171			
Total TPH		15400	173	12000	171			

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

Huns Boah

Kelsey Brooks Project Manager

Page 6 of 19



# **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

#### 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

Phone

(281) 240-4200

(214) 902 0300

(210) 509-3334

(813) 620-2000

(432) 563-1800

(770) 449-8800

(602) 437-0330

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

4143 Greenbriar Dr, Stafford, TX 77477
9701 Harry Hines Blvd, Dallas, TX 75220
5332 Blackberry Drive, San Antonio TX 78238
2505 North Falkenburg Rd, Tampa, FL 33619
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave, Phoenix, AZ 85040

Fax

(281) 240-4280

(214) 351-9139

(210) 509-3335

(813) 620-2033

(432) 563-1713

(770) 449-5477



# Project Name: Lovington Paddock Unit #96

Work Orde Lab Batch #:		Sample: 474077-005 / SMP	Bat	Project ID tch: 1 Matrix			
Units:	mg/kg	Date Analyzed: 11/15/13 14:33	S	URROGATE R	ECOVERY S	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane	•		100	100	100	70-135	
o-Terphenyl			44.7	50.0	89	70-135	
Lab Batch #:	927768	Sample: 474077-006 / SMP	Bat	ch: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/15/13 14:57	S	URROGATE R	ECOVERY S	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooctane	<u>`</u>	Analytes	104	100	104	70-135	
o-Terphenyl	-		50.3	50.0	104	70-135	
Lab Batch #:	927768	Sample: 474077-007 / SMP	Bat			10-155	
Units:	mg/kg	Date Analyzed: 11/15/13 15:15	SURROGATE RECOVERY STUDY				
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1-Chlorooctane	e		91.3	100	91	70-135	
o-Terphenyl			53.1	50.0	106	70-135	
Lab Batch #:	927768	Sample: 474077-008 / SMP	Bat	ch: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/15/13 15:39	S	URROGATE R	ECOVERY S	STUDY	
	TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	<u>`</u>	Analytes	105	100	105	70-135	
o-Terphenyl			40.7	50.0	81	70-135	
Lab Batch #:	927768	Sample: 474077-001 / SMP	Bat			, , , , , , , , , , , , , , , , , , , ,	
Units:	mg/kg	<b>Date Analyzed:</b> 11/15/13 16:14		URROGATE R		STUDY	
	TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooctane	<u>,</u>	Analytes	52 0	100		70 125	**
			53.8	100	54	70-135	**
o-Terphenyl			23.8	50.0	48	70-135	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



# Project Name: Lovington Paddock Unit #96

58	-002 / SN	MP Bate	Project ID h: 1 Matrix	: Soil			
g Dat	3 16:32	SU	JRROGATE R	RECOVERY	STUDY		
TPH By SW		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage	
Analy				[D]			
		97.5	100	98	70-135		
		43.7	50.0	87	70-135		
70	-007 / SN	MP Bate	h: 1 Matrix	<b>::</b> Soil			
Units:         mg/kg         Date Analyzed: 11/15/13 16:38				RECOVERY	STUDY		
BTEX by E		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage	
Analy		0.0243	0.0300	81	80-120		
e		0.0315	0.0300	105	80-120		
58	-003 / SN						
g Dat	3 16:56	SU	SURROGATE RECOVERY STUDY				
TPH By SW		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage	
Analy				[D]			
		111	100	111	70-135		
		50.9	50.0	102	70-135		
58	-004 / SN	MP Bate	h: 1 Matrix	<b>c:</b> Soil			
g Dat	3 17:29	SU	JRROGATE R	RECOVERY	STUDY		
TPH By SW Analy		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Anary		126	100	126	70-135		
		58.1	50.0	120	70-135		
70	-001 / SN						
	3 18:51		JRROGATE R		STUDY		
BTEX by E		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage	
Analy		0.0245	0.0200		00.120		
2		0.0245	0.0300	82 103	<u> </u>	30-120 30-120	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



# Project Name: Lovington Paddock Unit #96

Lab Batch #: 92	27770	Sample: 474077-002 / SMP	Bato	ch: 1 Matrix	: Soil				
Units: m	g/kg	Date Analyzed: 11/15/13 19:06	SU	URROGATE R	ECOVERY S	STUDY			
	втех	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage		
		Analytes			[D]				
1,4-Difluorobenze	ene		0.0253	0.0300	84	80-120			
4-Bromofluorober			0.0268	0.0300	89	80-120			
Lab Batch #: 92	27770	Sample: 474077-003 / SMP	Bate	ch: 1 Matrix	: Soil				
Units: m	ig/kg	Date Analyzed: 11/15/13 19:22	SU	URROGATE R	ECOVERY S	STUDY			
	втеу	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenze	ene	Analytes	0.0257	0.0300	86	80-120			
4-Bromofluorober	nzene		0.0268	0.0300	89	80-120			
Lab Batch #: 92	27770	Sample: 474077-004 / SMP	Bate						
Units: m	g/kg	<b>Date Analyzed:</b> 11/15/13 19:38	SURROGATE RECOVERY STUDY						
	втеу	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag		
		Analytes			[D]				
1,4-Difluorobenze	ene		0.0265	0.0300	88	80-120			
4-Bromofluorober			0.0252	0.0300	84	80-120			
Lab Batch #: 92	27770	Sample: 474077-006 / SMP	Batch: 1 Matrix: Soil						
Units: m	ig/kg	Date Analyzed: 11/15/13 19:54	SU	URROGATE R	ECOVERY S	STUDY			
	втеу	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenze	ene		0.0252	0.0300	84	80-120			
4-Bromofluorober	nzene		0.0283	0.0300	94	80-120			
Lab Batch #: 92	27770	Sample: 474077-007 / DL	Bate		: Soil	I			
Units: m	ıg/kg	Date Analyzed: 11/15/13 20:10	SU	URROGATE R	ECOVERY S	STUDY			
BTEX by EPA 8021B			Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag		
(		Analytes			[D]				
1,4-Difluorobenze			0.0277	0.0300	92	80-120			
4-Bromofluorober	nzene		0.0312	0.0300	104	80-120			

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



# Project Name: Lovington Paddock Unit #96

Lab Batch		Sample: 474077-005 / SMP						
Units:	mg/kg	<b>Date Analyzed:</b> 11/15/13 20:26	SU	RROGATE R	ECOVERY S	STUDY		
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1,4-Difluor	obenzene		0.0241	0.0300	80	80-120		
4-Bromoflu	orobenzene		0.0267	0.0300	89	80-120		
Lab Batch	#: 927770	Sample: 474077-008 / SMP	Batc	h: 1 Matrix	: Soil			
Units:	mg/kg	Date Analyzed: 11/15/13 20:41	SU	RROGATE R	ECOVERY S	STUDY		
	ВТЕХ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluor	obenzene		0.0242	0.0300	81	80-120		
4-Bromoflu			0.0242	0.0300	99	80-120		
	#: 927768	Sample: 647031-1-BLK / Bl				00 120		
Units:	mg/kg	Date Analyzed: 11/15/13 13:46	SURROGATE RECOVERY STUDY					
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes	[]		[D]	,		
1-Chlorooct	ane		108	100	108	70-135		
o-Terpheny	1		52.2	50.0	104	70-135		
Lab Batch	#: 927770	Sample: 647032-1-BLK / BI	LK Bate	h: 1 Matrix	: Solid			
Units:	mg/kg	Date Analyzed: 11/15/13 14:51	SU	RROGATE R	ECOVERY S	STUDY		
	ВТЕХ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1.4.5.9	1	Analytes						
1,4-Difluor			0.0266	0.0300	89	80-120		
4-Bromoflu	#: 927768	Sample: 647031-1-BKS / BI	0.0281 KS Bate	0.0300 h: 1 Matrix	94	80-120		
Lab Batch Units:	#: 927708 mg/kg	<b>Date Analyzed:</b> 11/15/13 11:46						
Units:	mg/Kg	Daw Analyzeu: 11/13/13 11.40	SU	RROGATE R	ECOVERY S	STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes	പ്ര	[10]	[D]	/01		
1-Chlorooct	ane	-	101	100	101	70-135		
o-Terpheny	1		58.7	50.0	117	70-135		

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



# Project Name: Lovington Paddock Unit #96

Lab Batch #:		Sample: 647032-1-BKS / B					
Units:	mg/kg	Date Analyzed: 11/15/13 12:43	SU	URROGATE R	ECOVERY S	STUDY	
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoroben	zene		0.0276	0.0300	92	80-120	
4-Bromofluorob	enzene		0.0318	0.0300	106	80-120	
Lab Batch #:	927768	Sample: 647031-1-BSD / B	SD Bate	ch: 1 Matrix	: Solid	·	
Units:	mg/kg	Date Analyzed: 11/15/13 12:10	SU	URROGATE R	ECOVERY S	STUDY	
	TPH 1	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		Anaryus	85.5	100	86	70-135	
o-Terphenyl			45.3	50.0	91	70-135	
Lab Batch #:	927770	<b>Sample:</b> 647032-1-BSD / B			: Solid		
Units:	mg/kg	Date Analyzed: 11/15/13 13:47	SU	URROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoroben	zene		0.0275	0.0300	92	80-120	
4-Bromofluorob			0.0311	0.0300	104	80-120	
Lab Batch #:	927770	Sample: 474077-004 S / MS	B Bato	ch: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/15/13 14:03	SU	URROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoroben	zene	-	0.0290	0.0300	97	80-120	
4-Bromofluorob	enzene		0.0288	0.0300	96	80-120	
Lab Batch #:	927770	Sample: 474077-004 SD / M	ISD Bate	ch: 1 Matrix	: Soil	I	
Units:	mg/kg	Date Analyzed: 11/15/13 14:19	SU	URROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
		Analytes			[D]		
1,4-Difluoroben			0.0285	0.0300	95	80-120	
4-Bromofluorob	enzene		0.0285	0.0300	95	80-120	

\* Surrogate outside of Laboratory QC limits

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

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



# **BS / BSD Recoveries**



## **Project Name:** Lovington Paddock Unit #96

Work Order #: 474077							Proj	ect ID:(	073816		
Analyst: ARM	D	ate Prepar	ed: 11/15/201	3			Date A	nalyzed: 1	1/15/2013		
Lab Batch ID: 927770 Sample: 647032-1-E	BKS	Batch	<b>n #:</b> 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUE	ΟY	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene	< 0.00100	0.100	0.0891	89	0.100	0.0905	91	2	70-130	35	
Toluene	< 0.00200	0.100	0.0909	91	0.100	0.0940	94	3	70-130	35	
Ethylbenzene	< 0.00100	0.100	0.0979	98	0.100	0.103	103	5	71-129	35	
m_p-Xylenes	< 0.00200	0.200	0.199	100	0.200	0.209	105	5	70-135	35	
o-Xylene	< 0.00100	0.100	0.100	100	0.100	0.105	105	5	71-133	35	
Analyst: AMB	D	ate Prepar	ed: 11/15/201	3	•		Date A	nalyzed: 1	1/15/2013		
Lab Batch ID: 927762 Sample: 647028-1-E	3KS	Batch	<b>n #:</b> 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUE	рү	
Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	45.8	92	50.0	46.4	93	1	80-120	20	

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



# **BS / BSD Recoveries**



## **Project Name:** Lovington Paddock Unit #96

Work Order	#: 474077							Proj	ect ID: (	073816		
Analyst:	ARM	D	ate Prepa	red: 11/15/201	3			Date A	nalyzed: 1	1/15/2013		
Lab Batch ID	: 927768 Sample: 647031-1-E	BKS	Batc	<b>h #:</b> 1					Matrix: S	Solid		
Units:	mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUI	DY	
	TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analy	rtes		[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C12 G	asoline Range Hydrocarbons	<15.0	1000	987	99	1000	786	79	23	70-135	35	
C12-C28 I	Diesel Range Hydrocarbons	<15.0	1000	1020	102	1000	784	78	26	70-135	35	

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

	rm 3 - MS me: Lovington				SUP NOR	a le
Work Order #:         474077           Lab Batch #:         927762			Proj	ect ID: <sup>0</sup>	73816	
<b>Date Analyzed:</b> 11/15/2013 D	ate Prepared: 11/1	5/2013	A	Analyst: A	MB	
<b>QC- Sample ID:</b> 474077-005 S	<b>Batch #:</b> 1		I	Matrix: S	oil	
Reporting Units: mg/kg	MATR	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1260	1150	2600	117	80-120	

Matrix Spike Percent Recovery  $[D] = 100^{*}(C-A)/B$ Relative Percent Difference  $[E] = 200^{*}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



# Form 3 - MS / MSD Recoveries

#### Project Name: Lovington Paddock Unit #96



Work Order # :	474077							Project ID	<b>:</b> 073816	ō			
Lab Batch ID:	927770	QC- Sample ID:	474077-0	04 S	Ba	tch #:	1	Matrix	: Soil				
Date Analyzed:	11/15/2013	Date Prepared:	11/15/201	3	An	alyst: A	ARM						
<b>Reporting Units:</b>	mg/kg		MA	TRIX SPIKI	E / MAT	RIX SPI	KE I	DUPLICA	FE REC	OVERY	STUDY		
]	BTEX by EPA 8021B	Parent Sample	Spike	piked Sample Result	Sample	Spike	Spik	uplicate ed Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	R	esult [F]	%R [G]	%	%R	%RPD	
Benzene		<0.00106	0.106	0.0688	65	0.106		0.0622	59	10	70-130	35	X
Toluene		<0.00212	0.106	0.0574	54	0.106		0.0523	49	9	70-130	35	Х
Ethylbenzene		< 0.00106	0.106	0.0461	43	0.106		0.0435	41	6	71-129	35	X
m_p-Xylenes		<0.00212	0.212	0.0896	42	0.212		0.0852	40	5	70-135	35	X
o-Xylene		<0.00106	0.106	0.0419	40	0.106		0.0391	37	7	71-133	35	X

Matrix Spike Percent Recovery [D] = 100\*(C-A)/BRelative Percent Difference RPD = 200\*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



# Sample Duplicate Recovery



## **Project Name: Lovington Paddock Unit #96**

Work Order #: 474077

Lab Batch #: 927709			]	Project I	<b>D:</b> 073816	
Date Analyzed: 11/15/2013 11:10	Date Prepared	<b>1:</b> 11/15/2013	Anal	yst:WRU		
QC- Sample ID: 474077-001 D	Batch #	<b>#:</b> 1	Mat	rix: Soil		
Reporting Units: %		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	P	arent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte			լոյ			
Percent Moisture		4.32	4.20	3	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

Projection PhaseTrask Const.     Constant KeLSEY     Lub Location     Constant KeLSEY     Lub Location       Projection     LEA     COVITANEE OLIVITY     Lub Constant     Lub Constant     Lub Location       Projection     LEA     COVITANEE OLIVITY     Lub Constant     Lub Constant     Lub Constant       Projection     LEA     COVITANEE OLIVITY     Lub Constant     Lub Constant     Lub Constant       Channary Constant     Charles     KVIGHT     Sameta     CONTAINER QUANTITY &     Lub Constant       Channary Constant     Charles     KVIGHT     Sameta     CONTAINER QUANTITY &     Lub Constant       Channary Constant     Charles     KVIGHT     Sameta     Constant     Research     Constant       Charles     KVIGHT     Date     Mark     Taute     Constant     Research     Constant       Samplet(si:     Charles     KVIGHT     Date     Mark     Taute     Constant     Research       Samplet(si:     Charles     Mark     Mark     Mark     KX     KX     KX       Samplet(si:     Charles     Mark     Mark     KX     KX     KX       Samplet(si:     Samplet(si:     Mark     KX     KX     KX     KX       Samplet(si:     Samplet(si: <t< th=""><th>16 B</th><th></th><th></th><th></th><th></th><th>1 mv.</th><th></th><th>1101 2</th><th>\$ ,</th><th></th><th>Assessed allow the second second second second</th><th></th></t<>	16 B					1 mv.		1101 2	\$ ,		Assessed allow the second second second second	
Oper (Lorenton:     LED $\# GG$ Lab     Contract: $(R_{\rm L}, S_{\rm L}, V)$ Lab     Contract:     Lab     Lab     Countrin K     Lab     Countrin K     Lab     AnALYSS REQUESTED       Oper Location:     LEA     CULT: $K/V$ (GHT     Same     Contract: $K_{\rm L}, S_{\rm L}$ AnALYSS REQUESTED       Immittin Contact:     LEA     CULT: $K/V$ (GHT     Same     Contact: $K_{\rm L}, S_{\rm L}$ AnALYSS REQUESTED       Immittin Contact:     CHLIS: $K/V$ (GHT     Same     Contact: $K_{\rm L}, S_{\rm L}$ $K_{\rm L}, S_{\rm L}$ Same     Chr. K     Mark     Same     Contact: $K_{\rm L}, S_{\rm L}$ $K_{\rm L}, S_{\rm L}$ Same     Chr. K     Mark     Same     Contact: $K_{\rm L}, S_{\rm L}$ $K_{\rm L}, S_{\rm L}$ Same     Same     Chr. K $M/M$ $M/M$ $M/M$ $M/M$ $M/M$ Same     Same     Chr. K $M/M$ $M/M$ $M/M$ $M/M$ $M/M$ Same     Same     Chr. K $M/M$ $M/M$ $M/M$ $M/M$ $M/M$ Same     Same     Same     Chr. M $M/M$ $M/M$ $M/M$ $M/M$ Samo     Same     Same     Same </td <td>NE UT COM</td> <td>144</td> <td>Laborato</td> <td>y Name:</td> <td>SENCO</td> <td>OLD STORES</td> <td>191213</td> <td>Lab Location: ODE</td> <td>SSA, TX</td> <td>0</td> <td>SSOW ID:</td> <td></td>	NE UT COM	144	Laborato	y Name:	SENCO	OLD STORES	191213	Lab Location: ODE	SSA, TX	0	SSOW ID:	
Oper Location: Instity Contact: Instity	LPU		Lab Cont	act: KEL	SEY B	SNOOD	- 1511 - 1511	Lab Quote No:			Cooler No:	
Immunity Contact: Immunity Contact: Second State State     CHLIS     K/I/GHT       Immunity Contact: Immunity Contact: Second State Second State     DATE     Tame Tame     DATE       Immunity Contact: Second State     II/H/II     II/H/II     II/H/II     II/H/II       Second State     II/H/II     II/H/II     II/H/II     II/H/II     II/H/II       Second S		MN	SAMPLE TYPE	O	ONTAINER	QUANTITY &			REQUESTED C for Definitions)		Carrier:	deh .
Mathematics         СМСЕ         КА.М.И.С.         К.М.И.С.         К.М.К.К.К.К.К.К.К.К.К.К.К.К.К.К.К.К.К.К	contact:	+ + Marcheo + Jos arti	ub (c) ()	iq (HCI)		1×55-g	0	0		1e	Airbill No:	1.954
Subtract Darrent     Darrent is a far in the second memory	OACE	Avore exage set our	ck of C	1	H) diad (H	ol/Water	rntainers			ы Кеdnea	Date Shipped:	-14-13-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			ed ees)		Sulfuric Sodium	(NaOH) Methand (COV EnCore:	D letal Co	87E		a prista a si	COMMENTS/ SPECIAL INSTRUCTIONS:	ITS/ UCTIONS:
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11	SPHI		×	RUNES	MARTEN B		×	2 2 2 2 2 2 2 2	M	EMAIL RA	RESULTS
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	S	13	A.	×				X			to	
55 - 07 3816 - 11/413 - CK-4     11/14/13 1535     59 6     X     X     X     X     X       55 - 07 3816 - 11/413 - CK-5     11/14/13 1536     50 6     X     X     X     X     X       55 - 07 3816 - 11/413 - CK-6     11/14/13 1549     50 6     X     X     X     X     X       55 - 07 3816 - 11/413 - CK-7     11/14/13 1549     50 6     X     X     X     X     X       55 - 07 3816 - 11/413 - CK-7     11/14/13 1549     50 6     X     X     X     X     X       55 - 07 3816 - 11/413 - CK-8     11/14/13 1549     50 6     X     X     X     X     X       55 - 07 3816 - 11/413 - CK-8     11/14/13 1549     50 6     X     X     X     X     X       55 - 07 3816 - 11/413 - CK-8     11/14/13 1549     1550 50 6     X     X     X     X     X       55 - 07 3816 - 11/413 - CK-8     1550 50 6     X     X     X     X     X     X       55 - 07 3816 - 11/1413 - CK-8     1550 50 50 6     X     X     X     X     X     X       6     X     1     1     1     X     X     X     X     X       7     1     1     1     1     1     1	-2188-6-25	11/14/13	So C	×	<u> </u>				1.82.52		BOCKISCH	10
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-	11/14/13		×			in the	X		100	clAwokLD.com	LD. COM
55 - o7 3516 - 11/41/3 - CK - 6       11/41/3       1546       50       6       X </td <td>S</td> <td>11/14/13 1535</td> <td></td> <td>×</td> <td></td> <td></td> <td>Haberto</td> <td>X</td> <td></td> <td>+</td> <td>CKANACK @</td> <td>8</td>	S	11/14/13 1535		×			Haberto	X		+	CKANACK @	8
S5 - 073816 - 11/413 - CK - 7       11/14/13       1545       50       6       X <td>55</td> <td>11/14/12 1540</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>100</td> <td>CRAWORLD</td> <td>hlos an</td>	55	11/14/12 1540		X				1		100	CRAWORLD	hlos an
S5-07381G-1 1413-CK-8     !\[/14/13] !550 50 G K     K X X       S7001381G-1 1413-CK-8     !\[/14/13] !550 50 G K     K X X       S1011000000000000000000000000000000000	SS-073816-1/1413-CK-	11/14/13		X				1			andarbar A. a. E.	and the second
AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     Notes/ Special Requirements:     Public Providence       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     Notes/ Special Requirements:     Public Providence       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     Notes/ Special Requirements:     Public Providence       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     Notes/ Special Requirements:     Public Providence       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     Notes/ Special Requirements:     Public Providence       AT Returnoughted BY     Company     Date     If - If - IS     I6 3     1. Mate     Mate	- 213820 - 55	11/14/13 1550		×				× 1			a strategy -	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     8       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     8       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     8       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     8       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     8       AT Day     13 Days     11 Week     2 Week     5 Total Number of Containers:       AT Returnoutshet BY     Company     DATE     Time     Received BY     Company       Company     Company     2     16.3.5     1.     16.3.5     1.	ő	A Reagangel - 109		1 1 1			N N			ter.		٤.
AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     S     Notes/ Special Requirements:     Pv1       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     S     Notes/ Special Requirements:     Pv1       AT Bay     2 Days     1 Week     2 Week     Other:     MS     AII Samples in Cooler must be on COC     TMKE/N     STEAHGHT       AT     AT     TIME     TIME     Notes/ Special Requirements:     Pv1		- 2000									300	
AT Required in business days (use separate COCs for different TATs):     AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     A       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     A     Notes/ Special Requirements:     Pv1       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     A     Notes/ Special Requirements:     Pv1       AT Required in business days (use separate COCs for different TATs):     A     A     Notes/ Special Requirements:     Pv1       AT Required in business days (use separate COCs for different TATs):     A     A     Notes/ Special Requirements:     Pv1       AT Required in business days (use separate COCs for different TATs):     A     A     A     Notes/ Special Requirements:     Pv1       AT Recluroutshet BY     ComPany     Date     Time     Received By     Company     Company       AT     M     I     I     I     I     I     I     I     V       AT     M     I     I     I     I     I     I     V     V     V				10:23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					-	00 100	)0.
AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     R     Notes/ Special Requirements:     PvT       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     R     Notes/ Special Requirements:     PvT       AT Day     2 Days     3 Days     1 Week     2 Wotes/ Special Requirements:     PvT       AT Day     2 Days     3 Days     1 Week     2 Wotes/ Special Requirements:     PvT       AT Day     2 Days     1 Wotes/ Special Requirements:     PvT     Company       AT Day     2 Days     1 Coller:     Notes/ Special Requirements:     PvT       AT Day     2 Days     1 Coller:     Notes/ Special Requirements:     PvT		31244450 F1E312								8	X.	0
AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     8     Notes/ Special Requirements:     Pvt       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     8     Notes/ Special Requirements:     Pvt       AT Day     2 Days     1 Week     2 Week     Other:     MS     Mail Samples in Cooler must be on COC     TAKEN     STRAHGHT     Fdom       Classing FELINOUISHED BY     COMPANY     DATE     Time     RECEIVED BY     Company       Classing FELINOUISHED BY     Classing Containers:     16.3.5     1.     Jtue, By     Mail Sequirements:     Vail	- 6 1										Co	
AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     8     Notes/ Special Requirements:     Pvt       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     8     Notes/ Special Requirements:     Pvt       AT Required in business days (use separate COCs for different TATs):     Total Number of Containers:     8     Notes/ Special Requirements:     Pvt       AT Day     2 Days     3 Days     1 Week     2 Week     Other:     MS     Notes/ Special Requirements:     Pvt       AT Day     2 Days     3 Days     1 Week     2 Week     Other:     MS     Notes/ Special Requirements:     Pvt       AT Day     2 Days     3 Days     1 Week     Notes/ Special Requirements:     Notes/ Special Requirements:     Pvt       AT Day     2 Missingles     16.3.5     1.     Atc.     Ma: Total     Na: Total	4 - 4			E ROL							19.90	
K1 Day     Days     Days <thdays< th=""> <thdays< th=""> <thdays< th="">     Days</thdays<></thdays<></thdays<>	TAT Required in business days (use separate	e COCs for different TATs):	-	T <sub>2</sub>	ital Number	r of Container	00	Notes/ Special Redu	uirements: Pu	T ON	KE WHEN TAKEN	THKEN,
Cle for company Date Time Received BY Cle for clet 11-17-13 1635 1. Stare Butter		□ 2 Week □ Other: ASA	d_	All Sam	les in Cool	er must be on	coc	1105	6HT FROM	GROUND	VD TO MAIL	
Cile the cut 11-17-13 1635 1. Star butte	RELINQUISHED BY		DATE ·	TIME		RE	CEIVED BY		COMPANY		DATE	TIME
	" like the		t-13	10		Stare Bu	they	1	la.15erdize	Sate	11 res	1626
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	RELEASED FOR THE SECOND SECOND SECOND			2.	mallen	J.		(1100		11-15-13	01:30
3.		survey and any		ALL ALL				and a light of the		. unit	distant of the state	

Page 18 of 19

Final 1.000


## **XENCO Laboratories** Prelogin/Nonconformance Report- Sample Log-In

Comments



Client: Conestoga-Rovers & Associates-Albuqu Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 11/14/2013 04:26:00 PM **Temperature Measuring device used :** Work Order #: 474077 Sample Receipt Checklist #1 \*Temperature of cooler(s)? 3 #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? N/A #E Custady Saala intest on comple hottlan? **NI/A** 

N/A
N/A
Yes
Yes
No
Yes
No
e)? N/A
N/A
N/A N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Candau James Candace James

Date: 11/15/2013

Checklist reviewed by: Mmg Moah Kelsey Brooks

Date: 11/15/2013

# **Summary Report**

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: July 21, 2010

# Work Order: 10071921

Project Location:Lea County, NMProject Name:LPU #96Project Number:114-6400596

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
238026	AH-1 0-6in.	soil	2010-07-15	00:00	2010-07-19
238027	AH-2 0-6in.	soil	2010-07-15	00:00	2010-07-19

			BTEX	TPH DRO - NEW	TPH GRO	
	Benzene	Benzene Toluene Ethylbenzene Xylene			DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
238026 - AH-1 0-6in.	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	<2.00
238027 - AH-2 0-6in.	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	<2.00

#### Sample: 238026 - AH-1 0-6in.

Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		<200	mg/Kg	4.00

#### Sample: 238027 - AH-2 0-6in.

Param	Flag	Result	Units	$\mathbf{RL}$
Chloride		<200	mg/Kg	4.00



 6701 Aberdeen Avenue, Suite 9
 Lubbock, Texas 79424

 200 East Sunset Road, Suite E
 El Paso, Texas 79922

 5002 Basin Street, Suite A1
 Midland, Texas 79703

 6015 Harris Parkway, Suite 110
 Ft. Worth, Texas 76132

Lubbock, Texas 79424 800+378+1296 El Paso, Texas 79922 888+588+3443 Midiand, Texas 79703 t. Worth, Texas 76132 F-Mail: Tab@traceanalysis.com 806•794•1296 FAX 800 915•585•3443 FAX 915 432•689•6301 FAX 432 817•201•5260

FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

**WBENC:** 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

**DBE:** VN 20657

# **NELAP** Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 El Paso: T104704221-08-TX LELAP-02002 Midland: T104704392-08-TX

# Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

Report Date: July 21, 2010

Work Order: 10071921

Project Location:Lea County, NMProject Name:LPU #96Project Number:114-6400596

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
238026	AH-1 0-6in.	soil	2010-07-15	00:00	2010-07-19
238027	AH-2 0-6in.	soil	2010-07-15	00:00	2010-07-19

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags B - The sample contains less than ten times the concentration found in the method blank.

# **Case Narrative**

Samples for project LPU #96 were received by TraceAnalysis, Inc. on 2010-07-19 and assigned to work order 10071921. Samples for work order 10071921 were received intact at a temperature of 3.3 C.

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

		Prep	$\mathbf{Prep}$	$\mathbf{QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	61608	2010-07-19 at 16:00	71924	2010-07-20 at 11:02
Chloride (Titration)	SM 4500-Cl B	61620	2010-07-20 at 08:52	71896	2010-07-20 at 11:56
TPH DRO - NEW	S 8015 D	61592	2010-07-19 at 14:30	71873	2010-07-19 at 14:30
TPH GRO	S 8015 D	61608	2010-07-19 at $16:00$	71925	2010-07-20 at 11:29

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10071921 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

# **Analytical Report**

### Sample: 238026 - AH-1 0-6in.

Laboratory: N	A	C PODID	Duan Mathad	Q 5095
0	<i>J</i>		Prep Method: Analyzed By:	
Prep Batch: 6	Sample Preparation:		Prepared By:	

		RI	د				
Parameter I	lag	Result	t	Units	D	ilution	$\operatorname{RL}$
Benzene		< 0.0200	)	mg/Kg		1	0.0200
Toluene		< 0.0200	)	mg/Kg		1	0.0200
Ethylbenzene		< 0.0200	)	mg/Kg		1	0.0200
Xylene		< 0.0200	)	mg/Kg		1	0.0200
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.18	mg/Kg	1	2.00	59	52.8 - 137
4-Bromofluorobenzene (4-BF	B)	1.22	mg/Kg	1	2.00	61	38.4 - 157

#### Sample: 238026 - AH-1 0-6in.

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 71896	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-07-20 2010-07-20	Prep Method: Analyzed By: Prepared By:	$\overline{AR}$
Deverse	<b>T</b> 11	RL Barralt	TT	Dilution	$\mathbf{RL}$
Parameter	Flag	Result	Units		
Chloride	· · · · · · · · · · · · · · · · · · ·	<200	mg/Kg	50	4.00

#### Sample: 238026 - AH-1 0-6in.

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical I	Method: S 8015 D	Prep Method:	N/A
QC Batch:	71873	Date Analy	zed: 2010-07-19	Analyzed By:	$\mathbf{k}\mathbf{g}$
Prep Batch:	61592	Sample Pre	paration: 2010-07-19	Prepared By:	kg
		$\mathbf{RL}$			
Parameter	Flag	$\operatorname{Result}$	$\mathbf{Units}$	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Report Date: July 21, 2010 114-6400596			Wo	Work Order: 10071921 LPU #96			Page Number: 5 of 14 Lea County, NM		
Surrogate	Flag	Result	Units	Dilu	tion	Spike Amount	Percent Recovery	Recovery Limits	
n-Tricosane	······································	126	mg/Kg	1	-	100	126	70 - 130	
Sample: 238	3026 - AH-1 0-	-6in.							
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 71925 61608		Analytical Date Anal Sample Pr	yzed:	S 8015 D 2010-07-20 2010-07-19		Prep Metl Analyzed Prepared	By: AG	
			RL		Units		Dilution	$\mathbf{RL}$	
Parameter GRO	Fla	ag	Result <2.00		mg/Kg		1	2.00	
Commente		Ele -	Result	Units	Dilutior	Spike Amount	Percent Recovery	Recovery Limits	
Surrogate Trifluorotolue 4-Bromofluor	ene (TFT) obenzene (4-BFI	Flag B)	1.40 1.36	mg/Kg mg/Kg	1 1	2.00 2.00	70 68	48.5 - 152 42 - 159	

### Sample: 238027 - AH-2 0-6in.

Laboratory: Midland Analysis: BTEX QC Batch: 71924 Prep Batch: 61608		Analytical M Date Analyz Sample Prep	zed:	S 8021B 2010-07-20 2010-07-19		Prep Meth Analyzed Prepared 1	By: AG
		$\operatorname{RL}$					
Parameter Fl	ag	Result		Units	D	lution	RL
Benzene		< 0.0200		mg/Kg		1	0.0200
Toluene		< 0.0200		mg/Kg		1	0.0200
Ethylbenzene		< 0.0200		mg/Kg		1	0.0200
Xylene		< 0.0200		mg/Kg		1	0.0200
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.35	mg/Kg	1	2.00	68	52.8 - 137
4-Bromofluorobenzene (4-BFB	)	1.35	mg/Kg		2.00	68	38.4 - 157

Report Date: July 21, 2010	Work Order: 10071921	Page Number: 6 of 14
114-6400596	LPU #96	Lea County, NM

### Sample: 238027 - AH-2 0-6in.

Laboratory: Analysis: QC Batch: Prep Batch:	Chloride (Titration) 71896	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-07-20 2010-07-20	Prep Method: Analyzed By: Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

#### Sample: 238027 - AH-2 0-6in.

Analysis: QC Batch: Prep Batch:	Batch: 71873 Date Analyzed:		nalyzed: 2	5 8015 D 2010-07-19 2010-07-19	Prep M Analyz Prepare	ed By: kg	
Parameter	F	lag	Result	Uı	nits	Dilution	$\mathbf{RL}$
DRO			<50.0	mg/	′Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Flag	113	mg/Kg	1	100	113	70 - 130

### Sample: 238027 - AH-2 0-6in.

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 71925 61608		Analytical Date Anal Sample Pr	yzed:	S 8015 D 2010-07-20 2010-07-19		Prep Meth Analyzed Prepared	By: AG
			$\operatorname{RL}$					
Parameter	Flag		$\mathbf{Result}$		Units	D	ilution	RL
GRO	· · · · · · · · · · · · · · · · · · ·		<2.00		mg/Kg		1	2.00
						Spike	Percent	Recovery
Surrogate		Flag	$\mathbf{Result}$	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.58	mg/Kg	1	2.00	79	48.5 - 152
	robenzene (4-BFB)		1.50	mg/Kg	1	2.00	75	42 - 159

Report Date: July 21, 2 114-6400596	2010	W					umber: 7 of 14 ea County, NM		
Method Blank (1)	QC Batch: 71873								
QC Batch: 71873 Prep Batch: 61592							zed By: .red By:	kg kg	
			MI	DL					
Parameter	Flag		Rest	ult	Ur	its		RI	
DRO			<14	1.5	mg,	/Kg		50	
Surrogate Flag	g Result	Units	D	vilution	Spike Amount	Percent Recovery	Reco Lim		
n-Tricosane	103	mg/Kg		1	100	103	70 -	130	
Method Blank (1) QC Batch: 71896 Prep Batch: 61620 Parameter Chloride	QC Batch: 71896 Flag	Date Ana QC Prep	-	ılt		Analyz Prepar its /Kg	v	AR AR RI 4	
Viethod Blank (1)	QC Batch: 71924								
QC Batch: 71924 Prep Batch: 61608		Date Ana QC Prep	•	2010-07-20 2010-07-19		Analyz Prepar		AG AG	
Parameter	Flag			MDL esult	ŢŢ	nits		$\mathbf{RL}$	
Benzene				0150		/Kg		0.02	
Foluene			< 0.0	0950		/Kg		0.02	
Sthylbenzene				0106		/Kg		0.02	
Kylene			<0.0	0930	mg	/Kg		0.02	
	Elem	Degult	ŦŢ	Dilutio	Spike	Percent	Reco		
urrogato	Flag	Result	Units mg/K		n Amount 2.00	Recovery 110	Lim - 66.6		
burrogate Frifluorotoluene (TFT)		2.19							

QC Batch:	71925	Date Analyzed:	2010-07-20	Analyzed By:	AG
Prep Batch:	61608	QC Preparation:	2010-07-19	Prepared By:	$\operatorname{AG}$

Report Date: July 21, 2010       Work Order: 10071921         114-6400596       LPU #96					Page Number: 8 of 14 Lea County, NM				
D	<b>T</b> 1			DL		TI:: ite			זת
Parameter	Flag		Result			Units mg/K			$\frac{\text{RL}}{2}$
GRO			<1	.00		mg/ rx	В		4
Surrogate	Flag	Result	Unit	s Dib	ution	Spike Amount	Percent Recovery		lecovery Limits
Trifluorotoluene (TFT)	0	2.63	mg/k		1	2.00	132		7.6 - 150
4-Bromofluorobenzene (4-BF)	B)	2.41	mg/k	-	1	2.00	120	52	2.4 - 130
Laboratory Control Spike QC Batch: 71873 Prep Batch: 61592	(LCS-1)		nalyzed: paration:	2010-07- 2010-07-				lyzed I bared I	
	LC	CS			Spike	Matrix			Rec.
Param	Res		Units	Dil.	Amount	Result	Rec.		Limit
DRO	25	66 m	ıg/Kg	1	250	<14.5	102	57.4	4 - 133.4
Percent recovery is based on	the spike result	. RPD is l	based on	the spike a	ind spike d	uplicate re	sult.		
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	251	mg/Kg	1	250	<14.5		·.4 - 133.4	2	20
Percent recovery is based on									
reitent recovery is based on			Jaseu on	me spike a					
LC					Spike	LCS	LCSD		Rec.
Surrogate Res			nits	Dil.	Amount	Rec.	Rec.		Limit
n-Tricosane 11	1 114	mg	;/Kg	1	100	111	114		70 - 130
Laboratory Control Spike QC Batch: 71896 Prep Batch: 61620	(LCS-1)		nalyzed: paration:	2010-07-2 2010-07-2			•		y: AR y: AR
Param		CS sult	Units	Dil.	Spike Amoun	Mat t Resu			Rec. Limit
Chloride			mg/Kg	1	100	<2.			85 - 115
				the spike a					
		เหม่อง	Jaseu on	one spine a	ang apire g	upitoate re	3410.		
Percent recovery is based on	-			Snike	Matrix		Rec.		RPD
Percent recovery is based on Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit

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

Report Date: July 21, 2010	Work Order: 10071921	Page Number: 9 of 14
114-6400596	LPU #96	Lea County, NM

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

QC Batch: 71924 Prep Batch: 61608			Date Analyzed: QC Preparation:			2010-07-20 2010-07-19			
Param		$\mathcal{LCS}$ Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	
Benzene		1.99	mg/Kg	1	2.00	< 0.0150	100	81.9 - 108	
Toluene		2.02	mg/Kg	1	2.00	< 0.00950	101	81.9 - 107	
Ethylbenzen	е	2.00	mg/Kg	1	2.00	$<\!0.0106$	100	78.4 - 107	
Xylene		6.06	mg/Kg	1	6.00	< 0.00930	101	79.1 - 107	

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{Result}$	Units	Dil.	Amount	Result	Rec.	Limit	$\operatorname{RPD}$	Limit
Benzene	2.03	mg/Kg	1	2.00	< 0.0150	102	81.9 - 108	2	20
Toluene	2.07	mg/Kg	1	2.00	< 0.00950	104	81.9 - 107	2	20
Ethylbenzene	2.04	mg/Kg	1	2.00	< 0.0106	102	78.4 - 107	<b>2</b>	20
Xylene	6.21	mg/Kg	1	6.00	< 0.00930	104	79.1 - 107	2	<b>20</b>

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	$\mathbf{Result}$	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.09	2.04	mg/Kg	1	2.00	104	102	70.2 - 114
4-Bromofluorobenzene (4-BFB)	2.15	2.09	mg/Kg	1	2.00	108	104	69.8 - 121

### Laboratory Control Spike (LCS-1)

QC Batch:	71925	Date Analyzed:	2010-07-20	Analyzed By:	$\mathbf{AG}$
Prep Batch:	61608	QC Preparation:	2010-07-19	Prepared By:	$\mathbf{AG}$

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	$\mathbf{Result}$	Rec.	Limit
GRO	15.7	mg/Kg	1	20.0	<1.65	78	69.9 - 95.4

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	$\mathbf{Result}$	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	16.6	mg/Kg	1	20.0	$<\!1.65$	83	69.9 - 95.4	6	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	$\operatorname{Result}$	$\operatorname{Result}$	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.68	2.68	mg/Kg	1	2.00	134	134	61.9 - 142
4-Bromofluorobenzene (4-BFB)	2.53	2.55	mg/Kg	1	2.00	126	128	68.2 - 132

Report Date: July 21, 2010         Work Ord           114-6400596         LP1						21		~		10 of 14 inty, NM
Matrix Spike (MS-1)	) Spiked	Sample: 23	8025							
QC Batch: 71873 Prep Batch: 61592				nalyzed: eparation	2010-07 : 2010-07				alyzed l epared l	
D		MS		· · · ·	D.1	Spike	Matri			Rec.
Param DRO		Result 241		Units	Dil. 1	Amount 250	Resu <14.			Limit 2 - 167.1
		····		ıg/Kg				· · · · · · · · · · · · · · · · · · ·	00.	2 - 107.1
Percent recovery is base	ed on the sp	ike result. I	RPD is	based on	the spike a	and spike d	uplicate i	result.		
_		MSD			Spike	Matrix	_	Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO			mg/Kg	1	250	<14.5		35.2 - 167.1	0	20
Percent recovery is base	ed on the sp	ike result. l	RPD is i	based on	the spike a	and spike d	uplicate 1	result.		
	$\mathbf{MS}$	MSD				Spike	Μ	S MS	D	Rec.
Surrogate	Result	Result		Inits	Dil.	Amount	Re			Limit
n-Tricosane	101	106	m	g/Kg	1	100	1(	1 10	6	70 - 130
Prep Batch: 61620		MS		paration:	2010-07-	20 Spike	M	Pre atrix	pared B	y: AR Rec.
Param		Resu		Units	Dil.	Amount			ec.	Limit
Chloride		9960		mg/Kg	100	10000			00	85 - 115
Percent recovery is base	d on the sp	ike result. I	RPD is l	based on	the spike a	and spike d	uplicate 1	esult.		<u>,,</u>
·	-	MSD			C	Madulus	-	Dee		RPD
Param		Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	Limit
Chloride		10100	mg/Kg		10000	<218	101	85 - 115	1	20
Percent recovery is base	d on the sp									
Matrix Spike (MS-1)	Spiked	Sample: 238	3026							
QC Batch: 71924		1	Data Ar	nalyzed:	2010-07-	20		And	lyzed B	y: AG
Prep Batch: 61608				paration:					pared B	
		MS				Spike	Mati	rix		Rec.
Param		Result	U	Jnits	Dil.	Amount	Resi	ilt Rec		Limit
Benzene		1.94		g/Kg	1	2.00	< 0.0			0.5 - 112
Toluene continued		2.01	m	g/Kg	1	2.00	< 0.00	950 100	) 8	2.4 - 113
continued										

Report Date: July 21, 2010	Work Order: 10071921	Page Number: 11 of 14
114-6400596	LPU #96	Lea County, NM

matrix spikes continued ...

•	MS			Spike	Matrix		Rec.
Param	$\mathbf{Result}$	$\mathbf{U}\mathbf{n}\mathbf{i}\mathbf{t}\mathbf{s}$	Dil.	Amount	Result	Rec.	Limit
Ethylbenzene	2.06	mg/Kg	1	2.00	< 0.0106	103	83.9 - 114
Xylene	6.25	mg/Kg	1	6.00	< 0.00930	104	84 - 114

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

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	$\mathbf{Result}$	Rec.	$\operatorname{Limit}$	RPD	Limit
Benzene	1	2.31	mg/Kg	1	2.00	< 0.0150	116	80.5 - 112	17	20
Toluene	2	2.37	mg/Kg	1	2.00	< 0.00950	118	82.4 - 113	16	20
Ethylbenzene	3	2.45	mg/Kg	1	2.00	< 0.0106	122	83.9 - 114	17	20
Xylene	4	7.38	mg/Kg	1	6.00	< 0.00930	123	84 - 114	17	20

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

Surrogate	${ m MS} { m Result}$	${f MSD} {f Result}$	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.61	1.74	mg/Kg	1	2	80	87	41.3 - 117
4-Bromofluorobenzene (4-BFB)	1.67	1.82	mg/Kg	1	2	84	91	35.5 - 129

#### Matrix Spike (MS-1) Spiked Sample: 238037

QC Batch:	71925	Date Analyzed:	2010-07-20	Analyzed By:	$\mathbf{AG}$
Prep Batch:	61608	QC Preparation:	2010-07-19	Prepared By:	$\operatorname{AG}$

	$\mathbf{MS}$			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	15.2	mg/Kg	1	20.0	< 1.65	76	61.8 - 114

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

	MSD			Spike	Matrix		Rec.		$\operatorname{RPD}$
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	16.2	mg/Kg	1	20.0	$<\!1.65$	81	61.8 - 114	6	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	$\mathbf{Result}$	$\operatorname{Result}$	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.55	2.31	mg/Kg	1	2	78	116	50 - 162
4-Bromofluorobenzene (4-BFB)	1.58	2.30	mg/Kg	1	2	79	115	50 - 162

<sup>1</sup>MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

<sup>2</sup>MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

<sup>3</sup>MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

<sup>4</sup>MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

Report Dat 114-640059	te: July 21, 201 6	0	Worl	Corder: 10071 LPU #96	921	Ŷ	umber: 12 of 14 ea County, NM
Standard	(CCV-2)						
QC Batch:	71873		Date Anal	yzed: 2010-07	-19	Ana	lyzed By: kg
			$\mathrm{CCVs}$	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	268	107	80 - 120	2010-07-19
Standard	(CCV-3)						
QC Batch:	71873		Date Anal	yzed: 2010-07	-19	Ana	lyzed By: kg
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	265	106	80 - 120	2010-07-19
Standard	(ICV-1)						
QC Batch:	71896		Date Analy	yzed: 2010-07-	-20	Anal	yzed By: AR
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	96.9	97	85 - 115	2010-07-20
Standard	(CCV-1)						
QC Batch:	71896		Date Analy	/zed: 2010-07-	-20	Anal	yzed By: AR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2010-07-20
Standard	(CCV-1)						
QC Batch:	71924		Date Analy	zed: 2010-07-	-20	Anal	yzed By: AG
			CCVs	CCVs	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene Toluene		mg/Kg	0.100	0.0959	96	80 - 120	2010-07-20
		mg/Kg	0.100	0.0981	98	80 - 120	2010-07-20

Report Date 114-6400596	: July 21, 201	0	Worl	Corder: 100719 LPU #96	921	*	umber: 13 of 14 Lea County, NM
standard cont	tinued						
			CCVs	$\rm CCVs$	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Ethylbenzene		mg/Kg	0.100	0.0991	99	80 - 120	2010-07-20
Xylene		mg/Kg	0.300	0.300	100	80 - 120	2010-07-20
Standard (C	CCV-2)						
QC Batch:	71924		Date Analy	/zed: 2010-07-	-20	Anal	yzed By: AG
			$\mathbf{CCVs}$	$\mathrm{CCVs}$	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0995	100	80 - 120	2010-07-20
Toluene		mg/Kg	0.100	0.101	101	80 - 120	2010-07-20
Ethylbenzene		mg/Kg	0.100	0.0996	100	80 - 120	2010-07-20
Xylene		mg/Kg	0.300	0.302	101	80 - 120	2010-07-20
QC Batch: 7	71924		Date Analy	/zed: 2010-07-	20	Anal	yzed By: AG
			$\mathrm{CCVs}$	$\mathrm{CCVs}$	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0972	97	80 - 120	2010-07-20
Foluene		mg/Kg	0.100	0.0979	98	80 - 120	2010-07-20
Ethylbenzene		mg/Kg	0.100	0.0954	95	80 - 120	2010-07-20
Kylene		mg/Kg	0.300	0.290	97	80 - 120	2010-07-20
Standard (C	CCV-1)						
QC Batch: 7	71925		Date Analy	zed: 2010-07-	20	Anal	yzed By: AG
			CCVs	$\mathrm{CCVs}$	$\mathrm{CCVs}$	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.02	102	80 - 120	2010-07-20
Standard (C	CV-2)						
	,						

Report Da 114-64005	ate: July 21, 2 96	010	Wo	ork Order: 1007 LPU #96	1921	Ŷ	umber: 14 of 14 Lea County, NM
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.992	99	80 - 120	2010-07-20
Standard QC Batch:	(CCV-3) 71925		Date Ana	alyzed: 2010-0	7-20	Ana	lyzed By: AG
			$\rm CCVs$	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.978	98	80 - 120	2010-07-20

ADDRESS. CITY: Mudland STATE CONTRACT: MUDICAL STATE	RECEIVING LABORATORY: TOA. 4	RELINQUISHED BY: (Signature)	REATWOODISHED-BY: (Signature)				81	and the	INUMBER 2000	CLIENT NAME:			Analysis F	
PHONE ZIP: DATE	Time: RECEIVED BY: (Signature)		2011				S N M-2 0-6"	5 X AH-1 D-6"	MATRIX COMP GRAD GRAD SAMPLE IDENTIFICATION	SITE MANAGER:	<b>TETRATECH</b> 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946		Analysis Request of Chain of Custody Reco	Crave #: 10071921
TIME	Date: Time:	Date: Trane:	Date: 771700						NUMBER OF CONT/ FILTERED (Y/N) HCL HNO3 ICE NONE	NNERS PRESERVATIVE METHOD			dv Record	
The Texarez Rush Charges	CT PERSON:	Q Þ	SAMPLED BY: (Print & Initial) Date:					λ 	TEX 80210         TPH       8015       MOD         PAH 8270       RCRA Metals Ag       A         TCLP       Metals Ag       A         TCLP Metals Ag       A       TCLP Volatilies         TCLP Semi Volatilies       CLP Semi Volatilies         GC.MS Vol. 8240/8       GC.MS Semi. Vol. 8         GC.MS Semi. Vol. 8240/8       GC.MS Semi. Vol. 8         PCB's 8080/608       Pest. 808/608         Chloride       Gamma Spec.         Alpha Beta (Alr)       PLM (Asbeatos)         Major Anions/Catlo       Catlo	As Ba Cd As Ba Cd B 260/624 3270/625	Vr Pd Hg Se	ANALYSIS REQUEST (Circle or Specify Method No.)	PAGE: 1 OF	

# **Summary Report**

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

### Report Date: August 30, 2010

Work Order: 10082311

Project Location:Lea County, NMProject Name:Chevron/LPU #96Project Number:114-6400596

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
242129	T-1 1.5-2'	soil	2010-08-18	00:00	2010-08-20
242130	T-2 1.5-2'	soil	2010-08-18	00:00	2010-08-20

#### Sample: 242129 - T-1 1.5-2'

Param	$\mathbf{F}$ lag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

#### Sample: 242130 - T-2 1.5-2'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

800 • 378 • 1296 Lubbock, Texas 79424 El Paso, Texas 79922 888•588•3443 Midland, Texas 79703 E-Mail Jah@traceaualysis.com

806 • 794 • 1296 915+585+3443 432 • 689 • 6301 817+201+5260 FAX 806 • 794 • 1298 FAX 915+585+4944 FAX 432+689+6313

**WBENC:** 237019

HUB: 1752439743100-86536 NCTRCA WFWB38444Y0909

Certifications

**DBE:** VN 20657

# **NELAP** Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317

El Paso: T104704221-08-TX LELAP-02002

Midland: T104704392-08-TX

# **Analytical and Quality Control Report**

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

Report Date: August 30, 2010

Work Order: 10082311 

Project Location: Lea County, NM Project Name: Chevron/LPU #96 **Project Number:** 114-6400596

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
242129	T-1 1.5-2'	soil	2010-08-18	00:00	2010-08-20
242130	T-2 1.5-2'	soil	2010-08-18	00:00	2010-08-20

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

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

### Standard Flags

 $\, {\bf B}\,$  - The sample contains less than ten times the concentration found in the method blank.

# Case Narrative

Samples for project Chevron/LPU #96 were received by TraceAnalysis, Inc. on 2010-08-20 and assigned to work order 10082311. Samples for work order 10082311 were received intact at a temperature of 4.0 C.

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

		Prep	Prep	$\mathbf{QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (Titration)	SM 4500-Cl B	62587	2010-08-26 at 09:39	73010	2010-08-27 at 15:08

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10082311 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

# **Analytical Report**

### Sample: 242129 - T-1 1.5-2'

v	Chloride (Titration) 73010	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-08-27 2010-08-26	Prep Method: Analyzed By: Prepared By:	$\mathbf{AR}$
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00

### Sample: 242130 - T-2 1.5-2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Metho	od: SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73010	Date Analyzed:	2010-08-27	Analyzed By:	ÁR
Prep Batch:	62587	Sample Preparat	ion: 2010-08-26	Prepared By:	$\mathbf{AR}$
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{RL}$
Chloride		<200	mg/Kg	50	4.00
· · · ·				_ · ·	

#### Method Blank (1) QC Batch: 73010

QC Batch: Prep Batch:		Date Analyzed: QC Preparation:			Analyzed By: Prepared By:	
		M	DL			
Parameter	 Flag	Res	ult	$\mathbf{Units}$		$\mathbf{RL}$
Chloride		<2	.18	mg/Kg		4

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

QC Batch: Prep Batch:	73010 62587		Analyzed: Preparation:	2010-08-2 2010-08-2			v	l By: AR By: AR
Param		${ m LCS} { m Result}$	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		97.6	mg/Kg	1	100	<2.18	98	85 - 115

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

114-6400596	e: August 30, 2 3				der: 100823 m/LPU #90			т а <u></u> е	ge Numbe Lea Cou	inty, NM
Param		LCSD Result	t Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		103	mg/Kg	1	100	<2.18	103	85 - 115	5	20
Percent reco	very is based o	on the spike resul	t. RPD is b	ased on (	the spike an	ud spike du	plicate r	esult.		
Matrix Spi	ke (MS-1)	Spiked Sample:	242145							
QC Batch: Prep Batch:	73010 62587		Date Ana QC Prep	•	2010-08-2' 2010-08-20				alyzed B epared By	
Param		R		Units	Dil.	Spike Amount		sult R	ec.	Rec. Limit
Chloride	· · · · ·	6	)620 n	ıg/Kg	100	10000	<2	218 9	96	85 - 115
Percent reco	very is based o	on the spike resul	t. RPD is b	ased on t	the spike an	d spike du	plicate r	esult.		
		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
	······						-		-	
	very is based o	9950 on the spike resul	mg/Kg t. RPD is b	100 ased on t	10000 the spike an	<218 d spike du	100 plicate re	85 - 115 esult.	3	20
Percent reco Standard (	ICV-1)		t. RPD is b	ased on t				esult.	3 alyzed By	
Percent reco Standard (	ICV-1)		t. RPD is b	ased on t	the spike an		plicate re	esult.		
Percent recor Standard (1 QC Batch:	ICV-1) 73010	on the spike resul	t. RPD is b Date Ana ICVs True	ased on t alyzed: IC Fou	the spike an 2010-08-27 Vs 1nd	id spike duj ICVs Percent	plicate r	esult. Ana Percent Recovery	alyzed By	y: AR Date
Percent recor Standard (: QC Batch: Param	ICV-1)	on the spike resul Units	t. RPD is b Date Ana ICVs True Conc.	ased on f alyzed: IC Fou Co	the spike an 2010-08-27 Vs 1nd nc.	id spike duj ICVs Percent Recovery	plicate ro I	esult. An: Percent Recovery Limits	alyzed By Ar	y: AR Date nalyzed
Percent recor Standard (: QC Batch: Param	ICV-1) 73010	on the spike resul	t. RPD is b Date Ana ICVs True	ased on f alyzed: IC Fou Co	the spike an 2010-08-27 Vs 1nd	id spike duj ICVs Percent	plicate ro I	esult. Ana Percent Recovery	alyzed By Ar	y: AR Date
Chloride Percent reco Standard (2 QC Batch: Param Chloride Standard (4	ICV-1) 73010 Flag	on the spike resul Units	t. RPD is b Date Ana ICVs True Conc.	ased on f alyzed: IC Fou Co	the spike an 2010-08-27 Vs 1nd nc.	id spike duj ICVs Percent Recovery	plicate ro I	esult. An: Percent Recovery Limits	alyzed By Ar	y: AR Date nalyzed
Percent reco Standard (: QC Batch: Param Chloride	ICV-1) 73010 Flag CCV-1)	on the spike resul Units	t. RPD is b Date Ana ICVs True Conc. 100	ased on t alyzed: IC Fou Co 1(	the spike an 2010-08-27 Vs 1nd nc.	id spike duj ICVs Percent Recovery	plicate ro I	An: Percent Recovery Limits 85 - 115	alyzed By Ar	y: AR Date nalyzed 10-08-27
Percent reco Standard ( QC Batch: Param Chloride Standard (6	ICV-1) 73010 Flag CCV-1)	on the spike resul Units	t. RPD is b Date Ana ICVs True Conc. 100	ased on t alyzed: IC Fou Co 1(	the spike an 2010-08-27 Vs ind nc. 04 2010-08-27	id spike duj ICVs Percent Recovery	plicate re I	An: Percent Recovery Limits 85 - 115	alyzed By Aı 201	y: AR Date nalyzed 10-08-27
Percent recor Standard (1 QC Batch: Param Chloride Standard (0 QC Batch:	ICV-1) 73010 Flag CCV-1) 73010	on the spike resul Units mg/Kg	t. RPD is ba Date Ana ICVs True Conc. 100 Date Ana CCVs True	ased on t alyzed: Fot Co 10 alyzed: CC Fot	the spike an 2010-08-27 Vs ind nc. 04 2010-08-27 Vs ind	ICVs Percent Recovery 104 CCVs Percent	plicate re I	An: Percent Recovery Limits 85 - 115 An: Percent Recovery	alyzed By An 201 alyzed By	y: AR Date nalyzed 10-08-27 7: AR Date
Percent recor Standard (: QC Batch: Param Chloride Standard ((	ICV-1) 73010 Flag CCV-1)	on the spike resul Units	t. RPD is b Date Ana ICVs True Conc. 100 Date Ana CCVs	ased on t alyzed: Fot Co 10 alyzed: CC Fot Co	the spike an 2010-08-27 Vs ind nc. 04 2010-08-27	ICVs Percent Recovery 104 CCVs	plicate re I	Ana Percent Recovery Limits 85 - 115 Ana Percent	alyzed By An 201 alyzed By An	y: AR Date nalyzed 10-08-27 /: AR

Request of Chain of Custody Record	й 4 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PRECENSERVERS	(//\/) E GOM 7 F F F F F F F F F F F F F F F F F F F	PAH 6270 Pate Meta							Date: D.P.O.P.O.	Date:	RECEIVED BY: (Signature) Date: Date: CHAND DELIVERED UPS Time: Time: Terra TECH CONTACT PERSON:	RECEIVED BY: (Signature)		
/sis Request of Chair	TETRATECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	SITE MANAGER: I KC Toværez	PROJECT NAME: Chevron / CPU * 96	Lea	x 7-1 1.5'-2'	X 7.3 1.5'-2'					9/20/10 1545	Date:			PHONE: ZIP: DATE	REMARKS:
Analysis Rec		CLIENT NAME: Chevron	DUECT NO.: PRO		elie S	<i>B</i> /18 5					RELINGUISHED BY: (Signature)	RELINQUISHED BY: (Signature)	RELINOUISHED BY: (Signature)		d STATE: 12	SAMPLE CONDITION WHEN RECEIVED:

# Appendix B

**Waste Management Documentation** 



3816

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

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-138 Revised March 12, 2007

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

### **REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. Generator Name and Address:
Chevron Environmental Management Company, 1400 Smith Street Rm 07086, Houston, TX 77002
2. Originating Site: Lovington Paddock Unit #96
3. Location of Material (Street Address, City, State or ULSTR):
Unit N, Section 31, T16S, R37E Lea County, New Mexico
Lea County, New Mexico
4. Source and Description of Waste: Soil impacted with produced brine released from a flowline.
Estimated Volume The bols Known Volume (to be entered by the operator at the end of the haul) 5. CENERATOR CERTIFICATION STATEMENT OF WASTE STATUS 1. Freddie Robinsont, representative of authorized agen for Encyron Finvironmental Management Control of the heavy do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. Operator Use Only Waste Acceptance Frequency Monthly Weekly Perford
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
🗆 MSDS Information 🛛 RCRA Hazardous Waste Analysis 🖾 Process Knowledge 🗖 Other (Provide description in Box 4)
<b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b> I, representative for do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: RWI Construction
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: Sundance Services- NM-01-003
Address of Facility: Sundance Lane, Eunice, NM 88231
Method of Treatment and/or Disposal:
• 🗌 Evaporation 🔲 Injection 🔲 Treating Plant 🔲 Landfarm 🔀 Landfill 📋 Other
Waste Acceptance Status:
PRINT NAME: Dening (Ly TITLE: DENIED (Must Be Maintained As Permanent Record) SIGNATURE: Dening (Ly TITLE: 575+08+2006
SIGNATURE:

### STRAIGHT BILL OF LADING ORIGINAL - NOT NEGOTIABLE

Shipper No. N/A

Carrier No. N/A

Page of	1	- RWI Constructio	on Name of ca	urrier)	(SCAC)	ſ	Date <u>11</u>	-14	-13
то:		"COD" must appear before consignee's name or as otherwise provided in Item 434 Services	30, Sec.1.	Snipper	Lovington Pade	1	-	6	
	lance	Lane		Street UNLU	N, Section 31,				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
-		100		City Lea C		State N		p Code	
City Euni		State MM Zip Code 88231		24 hr. Emergency C	ontact Tel. No(50	5) 28	0-057:		
Route NM	-18,	HOBBS BYPASS, NM-18	6.00				Vehicle Number	28	and the second second
No. of Units & Container Type	НМ	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Haza		, Packing Group	(Weight, Volume, Gallons, etc.)	(Subje Correc	ect to	RATE	(For Carrier Use Only)
DT		NON DOT-Regulated Material (so	il)		20 YD3				
		TK # 270340							
		Z							
14 M 18			AL.	Sector 1		-			
Note (1) Where the ra	te is depend	NDERED: YES NO C ent on value, shippers are required to state lared value of the property, as follows: "The consignment are fully and		REMIT C.O.D. TO: ADDRESS					
agreed or declared value of be not exceeding	f the property	is hereby specifically stated by the shipper to per" described above by the prop name and are classified, marked and labelled/placard	per shipping packaged, ded, and are	COD	Amt: \$		C.O.D. FE PREPAID COLLECT		
the carrier's liability or decla provided by such provisions. (3) Commodities requiring s must be so marked and pac	are a value, th See NMFC I special or ado ckaged as to e reight Bills an	litional care or attention in handling or stowing regulations. ensure safe transportation. See Section 2(e) of d Statements of Charges and Section 1(a) of	applicable	following statement: The carrier shall not mal freight and all other lawful cha	conditions, if this shipment is to be del on the consignor, the consignor sh ke delivery of this shipment without arges. (Signature of Consignor)	and a second second second	TOTAL CHARGES FREIGHT PRI except when b right is checke		IGES ck box if charges are to be collect
the p tents (the v posse nation	roperty descrit of packages word carrier b ession of the p n, if on its rout	ct to the classifications and tariffs in effect on the date of the issue of this Bill of Ladir bed above in apparent good order, except as noted (contents and condition of cc unknown), marked, consigned, and destined as indicated above which said carr eign understood throughout this contract as meaning any person or corporation roperty under the contract) agrees to carry to its usual place of delivery at said de e, otherwise to deliver to another carrier on the route to said destination. It is mu sch carrier of all or any of, said property over all or any portion of said route to de	on- rier in in isti- utu-	tination and as to eau performed hereunder sification on the date Shipper hereby	ch party at any time interested in all o shall be subject to all the bill of lading of shipment. certifies that he is familiar with al ion and the said terms and condition	terms and co It the lading	perty, that eve anditions in the terms and co	ry service to governing cla nditions in t	be as-
SHIPPER Chev	ron E	nvironmental Management Compan	у	CARRIER					
DED	eddie Ro		0	PER					- 1
-tradeo.	- 4	den Acent on petro	no	DATE	34.54		1	1	Ц
Permanent post-offic	e addre	of shipper.		STYLE CF375-4 ©	2012 LABELMASTER® (80	0) 621-580	8 www.lat	elmaster.o	com

This Shipp	ing C		Bred Spinsord Son		Shipper No	N/A	
Page 0	<u>( 1)</u>	RWI Construction (Name of	carrier)	(SCAC)	Date _	11-14	1-13
TO:	1	rs "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.	FROM: CEMC, Shipper	Lovington Pa	ddock Unit#	\$96	
e en el griete		Services	Street Unit	N, Section 31,	T17S, R37	E	ar i se
Street	dance	Lane	City = Lea (	County	State NM	Zip Code	
City Euni	ce	State NM Zip Code 8823	24 hr. Emergency C	Contact Tel. No(5	05) 280-05	72	
Route NM	-18	1 HOBBS BYPASS, NM-18		X	Vehicle		20
No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Clas	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier
TT	2.4	NON DOT-Regulated Material (soil)		20 YD 3	Correction)		Use Only)
ja - i				1			
			1 AV				
	1						
			18				4
					*		1977-9 1977-9 1977-9
	4						
		TK # 270340					
		2					
PLACA	RDS TE		REMIT				
specifically in writing the a agreed or declared value of	greed or dea the property	dent on value, shippers are required to state clared value of the property, as follows: "The is hereby specifically stated by the shipper to	C.O.D. TO: ADDRESS		C.O.D. F	J.	N
a release or a value decla the carrier's liability or decla	ration by th re a value, th	per	Subject to Section 7 of the c	Amt: \$	PREPAIE COLLEC		*
must be so marked and pac	pecial or add kaged as to e eight Bills ar	ditional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of d Statements of Charges and Section 1(a) of	The carrier shall not make freight and all other lawful char		t payment of FREI FREIGHT PF except when	GHT CHARC	k box if charges are to be
the pr tents (the w posse nation	operty describ of packages rord carrier b ssion of the p if on its rout	act to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, bed above in apparent good order, except as noted (contents and condition of con- unknown), marked, consigned, and destined as indicated above which said carrier eing understood throughout this contract as meaning any person or corporation in roperty under the contract) agrees to carry to its usual place of delivery at said desti- it, otherwise to deliver to another carrier on the route to said destination. It is mutu- act carrier of all or any of, said property over all or any portion of said coute to des-	tination and as to each performed hereunder si sification on the date Shipper hereby	certifies that he is familiar with a on and the said terms and condition	g terms and conditions in the	ery service to b e governing cla	S-
		nvironmental Management Company	CARRIER				
PER Fre	ddie Ro	obinson	PER				$\mathbb{Z}$
Tuedela	·CX	Column of CEME	DATE				1 1
Permanent post-office	address	of shipper.	STYLE CF375-4 © 2	2012 LABELMASTER® (80	00) 621-5808 www.lal	belmaster.co	m

		ST	ORIGINAL - NOT		NG	Shipper No.	N/A	
			· · ·			Carrier No.	N/A	
			onstruction			Date	11-19	+-13
Page c	of		(Name of ca	arrier)	(SCAC)			
On Collect on Delivery shipm	ients, the letter	s "COD" must appear before consignee's name or as othe	erwise provided in Item 430, Sec.1.	FROM: CEMC,	Lovington Pad	dock Unit	#96	
Consignee Sun	dance	Services		Street Unit N	, Section 31,	T17S, R3	7 E	
Street Sun	dance	Lane		City Lea Co	ounty	State NM	Zip Code	
City Euni	Lce	State NM Zip	Code 88231	24 hr. Emergency Co	ontact Tel. No(50	5) 280-05	572	
Route NM	1-18	+ HOBBS BYPAS	5 4 NM-	18		Vehi Num		14
No. of Units & Container Type	HM	BASI UN or NA Number, Proper Shi	C DESCRIPTION ipping Name, Hazard Class	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
		NON DOT-Regulated Mat	terial (soil)		20 x03	Concounty		oue only
DT	-				u - 75			
				<u></u>				
	_							
							+	
1								
	-							
	-							
-								
		TK# 2103	541	ii.				
	-	-6-						
PLAC	ARDS TE			REMIT				
specifically in writing the agreed or declared value	agreed or de	clared value of the property, as follows: "The con	ereby declare that the contents of this signment are fully and accurately scribed above by the proper shipping	C.O.D. TO: ADDRESS		C.O.I	). FEE:	
a release or a value de	claration by t	specify a limitation of the carrier's liability absent main ne shipper and the shipper does not release in a	ne and are classified, packaged, rked and labelled/placarded, and are all respects in proper condition for nsport according to applicable	and the second se	Amt: \$	PREF	AID C	
provided by such provision (3) Commodities requiring must be so marked and p	ns. See NMFC g special or ac ackaged as to	Item 172. ditional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of	rmational and national governmental ulations.	I following statement:	onditions, if this shipment is to be de in the consignor, the consignor s a delivery of this shipment without ges.	payment of	REIGHT CHAF	IGES ck box if charges
the Contract Terms and C	Conditions for a	Ind Statements of Charges and Section 1(a) of list of such articles.	Signature		signature of Consignor) I party at any time interested in all (	right is o	when box at hecked	are to be collect
the ten (the pos nat	property desci ts of packages word carrier session of the ion, if on its ro	tibed above in apparent good order, except as noted (cc unknown), marked, consigned, and destined as indicat being understood (hroughout this contract as meaning property under the contract) agrees to carry to its usual p ute, otherwise to deliver to another carrier on the route tr ach carrier of all or any of, said property over all or any	ontents and condition of con- led above which said carrier any person or corporation in place of delivery at said desti- o said destination. It is multu-	performed hereunder sh sification on the date Shipper hereby	nall be subject to all the bill of ladin of shipment. certifies that he is familiar with a on and the said terms and condition	g terms and conditions all the lading terms a	in the governing cl nd conditions in t	as- ihe
		nvironmental Manageme		CARRIER				
DED		0		PER				- 1
Fi	reddie R	1/1 Heent	orpetral					U
Permanent post-off		1 otras O	OFCEMC	DATE	012 LABELMASTER® (80	10) 621-5809 um	v lahelmaster	com
- onnarion poor-on		of shipper	SYCLED PAPER	011EL 010/0-4 @2	INTE ENDER MUTCH ~ (8)	00/021-0000 WW		

#### STRAIGHT BILL OF LADING ORIGINAL - NOT NEGOTIABLE

Shipper No.  $\underline{\ \mathbb{N}/\mathbb{A}}$ 

Carrier	No.	N/	A

Page of _1	RWI Construction			Date II-	14-13
Page 01	(Name of o	carrier)	(SCAC)		
On Collect on Delivery shipments, the letters "COD" must appear before consignee TO: Consignee Sundance Services	s name or as otherwise provided in Item 430, Sec.1.	Snipper	Lovington Pad		
Sundance Lane	·	Street Unit N	I, Section 31,	T17S, R37E	
Street		City Lea C	ounty	State NM Zip	Code
City Eunice State NM	Zip Code 88231	24 hr. Emergency Co	ontact Tel. No(5)	05) 280-0572	
Route NM-18-7 HOBBS BYP.	ASS -7 NM-18			Vehicle Number	280
No. of Units & Container Type HM UN or NA Number	BASIC DESCRIPTION , Proper Shipping Name, Hazard Clas	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	ATE CHARGES (For Carrier Use Only)
DT NON DOT-Regula	ted Material (soil)		20 103		
		10			
	10 20				
		8			
					2.
TK#	270382				
		9 - 12 - <u>14 - 14 - 1</u> 9 - 16 - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2			
Note — (1) Where the rate is dependent on value, shippers are require					
specifically in writing the agreed or declared value of the property, as foll agreed or declared value of the property is hereby specifically stated by the not exceeding per''' (2) Where the applicable tariff provisions specify a limitation of the carrier's liab	ows: "The consignment are fully and accurately shipper to described above by the proper shippin name and are classified, packaged marked and labelled/placarded, and are	COD	Amt: \$	C.O.D. FEE: PREPAID [ COLLECT ]	
a release or a value declaration by the shipper and the shipper does n the carrier's liability or declare a value, the carrier's liability shall be limited to provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling must be so marked and packaged as to ensure safe transportation. See Sect	the extent transport according to applicable international and national governmental or stowing regulations.	Subject to Section 7 of the consignee without recourse of following statement: The carrier shall not make	conditions, if this shipment is to be de on the consignor, the consignor s e delivery of this shipment without	hall sign the CHARGES	\$ T CHARGES
item 360, Bills of Lading, Freight Bills and Statements of Charges and Sect the Contract Terms and Conditions for a list of such articles.	on 1(a) of		Signature of Consignor)	FREIGHT PREP/ except when box right is checked	ID Check box if charges at are to be collect
RECEIVED, subject to the classifications and tariffs in eff the property described above in apparent good order, ex- tents of packages unknown), marked, consigned, and d (the word carrier being understood throughout this contr possession of the property under the contract) agrees to c nation, if on its route, otherwise to deliver to another carr ally agreed as to each carrier of all or any of, said proper	zept as noted (contents and condition of con- stined as indicated above which said carrier act as meaning any person or corporation in arry to its usual place of delivery at said desti- er on the route to said destination. It is mutu-	performed hereunder s sification on the date Shipper hereby	certifies that he is familiar with a on and the said terms and condition	g terms and conditions in the go all the lading terms and condi	verning clas- tions in the
SHIPPER Chevron Environmental M	anagement Company	CARRIER			-
PER Freddie Roly	0 1.1.01	PER			í
Tuelden & Olman Ho	of CEMC	DATE			
Permanent post-office address of shipper.	PRINTED ON RECYCLED PAPER	STYLE CF375-4 © 2	2012 LABELMASTER® (80	00) 621-5808 www.label	master.com

							Shippe	er No. N	/A	
							Carrie	er No. N	/A	
Page of _	1		RWI	Construction				Date /	1-14	-13
				(Name of	carrier)	(SCAC)				
TO:			nsignee's name or a	as otherwise provided in Item 430, Sec.1.	FROM: CE Shipper	MC, Lovington P	addock	Unit#	96	
		ervices			Street Uni	it N, Section 31	1, T17S	, R37E	3	
Street Sunda	nce L	ane			City Le	ea County	State 1	JM Z	Zip Code	
City Eunic	e	State NM		Zip Code 88231	24 hr. Emerge	ency Contact Tel. No	(505) 21	30-057	2	
Route MM -	18 -	-7 HOBBS	BYPA	-ss -7 MM-18	7	-		Vehicle Numbe		44
No. of Units & Container Type	нм	UN or NA Nu		ASIC DESCRIPTION Shipping Name, Hazard Clas	s, Packing Group	(Weight, Volume, Gallons, etc.)	(Sub	IGHT ject to ection)	RATE	CHARGES (For Carrier Use Only)
DT	M	DN DOT-Reg	ulated 1	Material (soil)		20 103	?			
					9					
							_			
							_			
-								2		
		-7								
	+	tK#	270	0383						
		7	5	~						
PLACAR		DERED: YES	and the second s	I hereby declare that the contents of thi	REMIT C.O.D. TO:					
specifically in writing the agre agreed or declared value of th be not exceeding(2) Where the applicable tariff p	eed or declare ne property is h	ed value of the property, nereby specifically stated	as follows: "The by the shipper to	consignment are fully and accuratel described above by the proper shippin name and are classified, packaged marked and labelled/placarded, and ar	COD	Amt: \$		C.O.D. F	EE:	
a release or a value declara the carrier's liability or declare provided by such provisions. Sr (3) Commodities requiring spa	ation by the s a value, the c ee NMFC Item	hipper and the shipper arrier's liability shall be lir 172.	does not release hited to the extent	in all respects in proper condition for transport according to applicabl international and national governmenta regulations.	e Subject to Section consignee without re	7 of the conditions, if this shipment is to ecourse on the consignor, the consign	nor shall sign the	CHARGE	ES \$	
must be so marked and packa item 360, Bills of Lading, Frei the Contract Terms and Condi	iged as to ensight Bills and S	ure safe transportation. S Statements of Charges ar	ee Section 2(e) of	Signature	freight and all other la	not make delivery of this shipment wi awful charges. (Signature of Consignor)	ithout payment o	FREIGHT PF except when right is check	box at	IGES ck box if charges are to be collect
the prop tents of (the wor possessi nation, if	perty described packages unk rd carrier being ion of the prope f on its route, o	above in apparent good o nown), marked, consigned understood throughout the rty under the contract) agro otherwise to deliver to anot	der, except as note and destined as i is contract as mea es to carry to its us ner carrier on the ro	te of the issue of this Bill of Lading, ed (contents and condition of con- ndicated above which said carrier ning any person or corporation in sual place of delivery at said desli- pute to said destination. It is mulu- or any portion of said route to des-	performed he sification on Shipper governing cl	as to each party at any time interested in reunder shall be subject to all the bill of the date of shipment. - hereby certifies that he is familiar w assification and the said terms and con r himself and his assigns.	lading terms and with all the lading	conditions in th	e governing cli conditions in t	as-
Real and the second				ement Company	CARRIER					
PER D Fred	ldie Rob	inson /			PER					- 1
Tude	en'	7 lem	Ag	storphale	DATE					U
Permanent post-office a	address of	shipper.		IN RECYCLED PAPER PRINTED WITH	STYLE CF375	5-4 © 2012 LABELMASTER®	(800) 621-58	08 www.la	belmaster.	com

	hi girmi i					Shipper No. <u>N/A</u>	
						Carrier No. N/A	
			RWI Construction			Date 11-15-13	
Page	_1_ of _1_		(Name of o	carrier)	(SCAC)		
On Collect on De	livery shipments, the letter	s "COD" must appear before consig	nee's name or as otherwise provided in Item 430, Sec.1.	FROM: Shipper	CEMC, Lovington	Paddock Unit#96	
Consignee	Sundance	Services		Street	Unit N, Section	31, T17S, R37E	
Street	Sundance	Lane		City	Lea County	State NM Zip Code	
City	Eunice	State NM	Zip Code 88231	24 hr. Ei	mergency Contact Tel. No	(505) 280-0572	
a)	-	al m				Vehicle (200	

Route NM-	18-7	HOBOS BYPASS -7 MM-18				Number	78	8
No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class	ss, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIG (Subject Correct	ct to R/	ATE	CHARGES (For Carrier Use Only)
DT		NON DOT-Regulated Material (soil)		12 403				
			2					
							-	
				1 2 2 2 2				
	-							
	-							
			~					15
-	-							
-	-							
-		TK# 270535	0					
	-		fr					
PLAC	ARDS TE		REMIT C.O.D. TO:					
specifically in writing the agreed or declared value be not exceeding	agreed or de of the propert	dent on value, shippers are required to state character value of the property, as follows: "The is hereby specifically stated by the shipper to per	ADDRESS	Amt: \$		C.O.D. FEE: PREPAID	]	
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release provided by such revisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of		for Subject to Section 7 of the conditions, if this shipment is to be delivered to the TOTAL			\$ F CHAF ID Che	ck box if charges		
the Contract Terms and C	Conditions for	a list of such articles.		(Signature of Consignor)		except when box a right is checked	L	are to be collect
the ten (thi pos nat	e property desc its of packages e word carrier ssession of the tion, if on its ro	ject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, nibed above in apparent good order, except as noted (contents and condition of con- sunknown), marked, consigned, and destined as indicated above which said carrier being understood throughout this contract as meaning any person or corporation in property under the contract agrees to carry to its usual place of delivery at said desti- ule, otherwise to deliver to another carrier on the route to said destination. It is mutu- each carrier of all or any of, said property over all or any portion of said toute to des-	performed hereund sification on the d Shipper here governing classifi	each party at any time interested in all o er shall be subject to all the bill of ladin ate of shipment. by certifies that he is familiar with a cation and the said terms and condition relf and his assigns.	g terms and co Il the lading t	nditions in the government and condition	ions in l	as- lhe
		Invironmental Management Company	CARRIER					

SHIPPER Chevron Environmental Management Company	CARR
PER Freddie Robinson	PER
Frieddin Halver CEM	DATE
Permanent post-office address of hipper.	STY

L I Shir

STYLE CF375-4 © 2012 LABEL MASTER (800) 621-5808 www.labelmaster.com

5

# STRAIGHT BILL OF LADING ORIGINAL - NOT NEGOTIABLE

Shipper No.  $\underline{\mathbb{N}/\mathbb{A}}$ 

arrier	No.	N/A	

				Carrier No1	J/A	
Page of	RWI Construction (Name of o	carrier)	(SCAC)	Date _	11-15	5-13
Dn Collect on Delivery shipments, the letters "COD" must appear before consigne		FROM: CEMC.	Lovington Pado	dock Unit#	96	
<b>FO:</b> Consignee Sundance Services			N, Section 31,			
Street Sundance Lane						
Dity Eunice State NM	Zip Code 88231				Zip Code	
		24 hr. Emergency (	Contact Tel. No(50	5) 280-057 Vehicle	-	0
No. of Units	BYPASS -> NM-18 BASIC DESCRIPTION	<u></u>	TOTAL QUANTITY	WEIGHT		CHARGES
& Container Type UN or NA Numbe	r, Proper Shipping Name, Hazard Class	s, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)	RATE	(For Carrier Use Only)
DT NON DOT-Regula	ted Material (soil)		20 403			
		10				
					$\left  \right $	
/						
- 60 - 77	8 270531	4-				
	D					
PLACARDS TENDERED: YES  INote — (1) Where the rate is dependent on value, shippers are require specifically in writing the agreed or declared value of the property, as follows a solution of the property and the property of the property and the property and the property and the property are solutions are solutions and the property are solutions and the property are solutions are solutions are solutions are solutions are solutions are solutions are solutions.	d to state ows: "The consignment are fully and accurately	REMIT C.O.D. TO: ADDRESS				
agreed or declared value of the property is hereby specifically stated by the be not exceeding (2) Where the applicable tariff provisions specify a limitation of the carrier's liable a release or a value declaration by the shipper and the shipper does no the carrier's liability or declare a value, the carrier's liability shall be limited to provided by such provisions. See NMFC Item 172.	shipper to described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are of release in all respects in proper condition for the extent	Subject to Section 7 of the	Amt: \$			
(3) Commodifies requiring special or additional care or attention in handling unust be so marked and packaged as to ensure safe transportation. See Sect tem 360, Bills of Lading, Freight Bills and Statements of Charges and Secti he Contract Terms and Conditions for a list of such articles.	on 2(e) of	The carrier shall not mak freight and all other lawful cha	on the consignor, the consignor shalks the delivery of this shipment without par ges. (Signature of Consignor)	or in a route	GHT CHARG	iES box if charges are to be collect
RECEIVED, subject to the classifications and tariffs in effe the property described above in apparent good order, ex- tents of packages unknown), marked, consigned, and de (the word carrier being understood throughout this contra possession of the property under the contract) agrees to ci nation, if on its route, otherwise to deliver to another carri ally agreed as to each carrier of all or any of, said propert	zept as noted (contents and condition of con- stined as indicated above which said carrier act as meaning any person or corporation in arry to its usual place of delivery at said desti- er on the route to said destination. It is mutti- to m the route to said destination. It is mutti-	sification on the date Shipper hereby	certifies that he is familiar with all t on and the said terms and conditions	erms and conditions in the	e governing clas-	-
SHIPPER Chevron Environmental Ma	nagement Company	CARRIER				
PER Freddie Robinson	Aco de pol A	PER				_ 1
- tuedda & Coloman	of CEMO	DATE				
Permanent post-office address of shipper.		STYLE CF375-4 ©2	2012 LABELMASTER® (800)	621-5808 www.lat	elmaster.com	m

			ORIGINAL - NOT		NG	Shipper No. N	/A	
						Carrier No1	1/A	
		RWI	Construction			Date	11-15	-13
Page of			(Name of ca	arrier)	(SCAC)	Date _		
Dn Collect on Delivery shipm	ents, the letters	"COD" must appear before consignee's name or at	s otherwise provided in Item 430, Sec.1.	FROM: CEMC,	Lovington Pac	ldock Unit#	96	
	dance	Services		Street Unit N	, Section 31,	T17S, R37	E	
Street Sun	dance	Lane		City Lea C	ounty	State NM	Zip Code	
City Euni	Lce	State NM	Zip Code 88231	24 hr. Emergency Co	ontact Tel. No(5	05) 280-051	2	
Route MM-	18	-> HOBBS BXPAS	5 -7 NM-18	<u> </u>		Vehicl	er 28	20
No. of Units	HM	B/	ASIC DESCRIPTION Shipping Name, Hazard Class	Packing Group	TOTAL QUANTITY (Weight, Volume,	WEIGHT (Subject to	RATE	CHARGES (For Carrier
& Container Type					Gallons, etc.)	Correction)	-	Use Only)
DT	-	NON DOT-Regulated M	lateriai (soli)		20 xD3			
				15				
	-							
	-							
		α						
	-							
	-							
	_							
		a						
4		サレガ 7.70	495					
	-	10-210						
14	-							
							1	
PLAC	ARDS TE	ENDERED: YES 🗖 NO 🗖	]	REMIT			1	
specifically in writing the	agreed or de	dent on value, shippers are required to state actared value of the property, as follows: "The y is hereby specifically stated by the shipper to	I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping	-		C.O.D.	FFF.	
<ul> <li>be not exceeding</li></ul>	tariff provisions	per" specify a limitation of the carrier's liability absent he shipper and the shipper does not release	name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for	COD	Amt: \$	COLLE		
(3) Commodities requiring	ns. See NMFC g special or ac	the carrier's liability shall be limited to the extent Item 172. Iditional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of	transport according to applicable international and national governmental regulations.	following statement:	conditions, if this shipment is to be on the consignor, the consignor ke delivery of this shipment with	shall sign the CHARC out payment of FR	EIGHT CHAR	
item 360, Bills of Lading the Contract Terms and	, Freight Bills a	and Statements of Charges and Section 1(a) of	Signature		(Signature of Consignor)	FREIGHT except who right is che	en box at cked	eck box if charges are to be collect
the ter (th po na	e property desc its of packages ie word carrier ssession of the tion, if on its ro	ject to the classifications and tariffs in effect on the da ribued above in apparent good order, except as not unknown), marked, consigned, and destined as i being understood throughout this contract as mea property under the contract) agrees to carry to its u ute, otherwise to deliver to another carrier on the ru each carrier of all or any of, said property over all of	ed (contents and condition of con- ndicated above which said carrier ning any person or corporation in sual place of delivery at said desti- jute to said destination. It is mutu-	performed hereunder sification on the date Shipper hereby	certifies that he is familiar with tion and the said terms and condit	ding terms and conditions in all the lading terms and	the governing of conditions in	the
		nvironmental Manage		CARRIER				-
DED	reddie R			PER				- 1
f.	A - C	-// Hent	outschalfof	DATE	1			U
- wedo	ar	of shipper.			2012 LABELMASTER® (	000) 004 5000		

#### STRAIGHT BILL OF LADING ORIGINAL -- NOT NEGOTIABLE

Shipper No.  $\underline{\rm N/A}$ 

Carrier No. N/A

Page c	of _1		Construction (Name of ca	arrier)	(SCAC)	Date _	11-1	5-13
то:		"COD" must appear before consignee's name or a	s otherwise provided in Item 430, Sec.1.	FROM: CEMC, Lovington Paddock Unit#96 Shipper Street Unit N, Section 31, T175, R37E				
Street Sund	dance	Lane						
City Euni	C.9.	State NM	Zip Code 88231	City Lea Co	4	State NM	Zip Code	
				24 hr. Emergency Co	ntact Tel. No(50	5) 280-05 Vehici		3
	-	-7 HOBBS BYPI	ASIC DESCRIPTION		TOTAL QUANTITY	Numb		CHARGES
No. of Units & Container Type	HM	Devices and Devices the state	Shipping Name, Hazard Class	, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)	RATE	(For Carrier Use Only)
DT		NON DOT-Regulated N	Material (soil)		12 403			
				0				
	-							
				- WANTER WITTE SHULL - 18				
	-							
	2.1							
		TKI	2705	85				
	-			<u> </u>				
	•		a and a second					
مليك المحمد المناح	-							-
			and the second se	REMIT C.O.D. TO:	6			
specifically in writing the agreed or declared value be not exceeding	agreed or de of the property	Jent on value, shippers are required to state clared value of the property, as follows: "The is hereby specifically stated by the shipper to per"	I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged,	ADDRESS	Amt: \$	C.O.D. PREPA	ID 🗆	
a release or a value der	claration by th clare a value, t	specify a limitation of the carrier's liability absent re shipper and the shipper does not release he carrier's liability shall be limited to the extent liem 172.	marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental	consignee without recourse o	onditions, if this shipment is to be del n the consignor, the consignor sh	Ivered to the TOTAL	CT 🗆 💲	
(3) Commodities requiring must be so marked and p	special or ad ackaged as to Freight Bills a	ditional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of nd Statements of Charges and Section 1(a) of	regulations.	following statement: The carrier shall not make freight and all other lawful char	e delivery of this shipment without ges.	payment of FREIGHT except who	EIGHT CHAF PREPAID Che	ck box if charges are to be
F the tent (the pos	ECEIVED, subj property descri s of packages word carrier b session of the p	ect to the classifications and tariffs in effect on the da bed above in apparent good order, except as note unknown), marked, consigned, and destined as in being understood throughout this contract as mean property under the contract) agrees to carry to its us ite, otherwise to deliver to another carrier on the cr	d (contents and condition of con- dicated above which said carrier ning any person or corporation in sual place of delivery at said desti-	tination and as to each performed hereunder sh sification on the date o Shipper hereby o	certifies that he is familiar with al in and the said terms and condition	terms and conditions in If the lading terms and	every service to the governing cl conditions in	as-
ally	agreed as to e	aach carrier of all or any of, said property over all o	r any portion of said route to des-	CARRIER				
PEB	2.45		TI	PER				- 1
f. an	reddie Ro	Rol Age	at of pehal	DATE		- 25		U
Permanent post-offi	LC ice address	of shipper.	ON RECYCLED PAPER (D) PRINTER		012 LABELMASTER® (80	0) 621-5808 10000	labelmaster	com
			ON RECYCLED PAPER NG SOYBEAN INK		(00	-,		

This Memora	<b>This Memorandum</b> is an acknowledgment that a Bill of Lading has be Bill of Lading, nor a copy or duplicate, covering the p intended solely for filing or record.							
						Carrier No.		
Page of	1	RW	I Construction			Date	11-1	5-13
			(Name of c	arrier)	(SCAC)			
то:		must appear before consignee's name or	as otherwise provided in Item 430, Sec.1.	FROM: CEMC,	Lovington Pac	ldock Unit	#96	
	ance Ser			Street Unit N	, Section 31,	T17S, R3	Έ	
Street Sunda	ance Lan	10		City Lea Co	ounty	State NM	Zip Code	
City Eunic	:0 Sta	ate NM	Zip Code 88231	24 hr. Emergency Co	ntact Tel. No(5)	05) 280-05	72	
Route MM -	18 -7	HOBBS BYP	1255 -> NM-18	2		Vehic Num		3
No. of Units & Container Type	НМ		ASIC DESCRIPTION r Shipping Name, Hazard Class	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
DT	NON	J DOT-Regulated	Material (soil)		12 YD3			7.
1								
						4ª.	3	
					, L.			
				. *				
	Anna II							
2.6.991	1 <sup>5</sup> 3-	1					1 .	
				225.29				
		TUI	7705	80				
		IR	- · U	0		Statutes.	1	7
					1			
				2				
Note (1) Where the rate	e is dependent on	Value, shippers are required to state	I hereby declare that the contents of this	C.O.D. TO: ADDRESS				
agreed or declared value of the be not exceeding	the property is here per	value of the property, as follows: "The by specifically stated by the shipper to 	described above by the proper shipping name and are classified, packaged	COD	Amt: \$	C.O.D PREP COLL	. FEE: AID II ECT II \$	
the carrier's liability or declare provided by such provisions. S	e a value, the carrie See NMFC Item 172	per and the shipper does not release er's liability shall be limited to the extent 2. care or attention in handling or stowing	in all respects in proper condition fo transport according to applicable international and national governmental	Subject to Section 7 of the co consignee without recourse of following statement:	onditions, if this shipment is to be a n the consignor, the consignor a	elivered to the TOTA shall sign the CHAR	GES \$	
must be so marked and packa	aged as to ensure eight Bills and State	safe transportation. See Section 2(e) of ements of Charges and Section 1(a) of		freight and all other lawful charg	delivery of this shipment withou ges. ignature of Consignor)	FREIGH	REIGHT CHAF	RGES ack box if charges are to be collect
the pro tents of (the wo possess nation,	perty described abo f packages unknow ord carrier being un sion of the property if on its route, othe	e classifications and tariffs in effect on the d ove in apparent good order, except as no m), marked, consigned, and destined as derstood throughout this contract as me under the contract) agrees to carry to its rwise to deliver to another carrier on the	ted (contents and condition of con- indicated above which said carrier aning any person or corporation in usual place of delivery at said desli- route to said destination. It is mutu-	tination and as to each performed hereunder sh sification on the date o Shipper hereby o	party at any time interested in all all be subject to all the bill of ladii of shipment. pertifies that he is familiar with n and the said terms and condition	or any said property, tha ng terms and conditions i all the lading terms an	every service to the governing c d conditions in	las- the
	10.2	rier of all or any of, said property over all		CARRIER				
DED	ddie Robin		1	PER	×.			- 3
Andlei	EK	Amen Ag	of com	DATE			-	
Permanent post-office	address of shi	ipper. 🛞 PRANTE	ED ON RECYCLED PAPER	STYLE CF375-4 © 2	012 LABELMASTER® (8	00) 621-5808 www	labelmaster.	com

.

#### STRAIGHT BILL OF LADING ORIGINAL - NOT NEGOTIABLE

Shipper No. N/A

Carrier No. N/A

	RWI Construction			Dete	11-15-	-13
Page of	(Name	of carrier)	(SCAC)	Date 1	(	
то:	he letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1	Shipper	Lovington Pad			
Sundar	nce Lane	Street Onic I	I, Section 31,	11/5, R5/	Ë.	
Street		- City Lea C	ounty	State NM	Zip Code	
City Eunice	State NM Zip Code 88231	24 hr. Emergency Co	ontact Tel. No(50	)5) 280-05	72	
Route NM-18	-7 HOBBS BYPASS -7 NM-18			Vehic Numb		1
No. of Units & Container Type	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Cl	ass, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
DT	NON DOT-Regulated Material (soil)		12 403			-
		ß.	а.			
			a a a a a a a a a a a a a a a a a a a			
-						
						÷
				-10-10-20-20-20-20-20-20-20-20-20-20-20-20-20		
	TR# 270539					
			- 5			
Note — (1) Where the rate is specifically in writing the agreed	S TENDERED: YES IN NO IN Comparison of the property as follows: The consignment are fully and accurate the property, as follows: The consignment are fully and accurate the property of the pr	itely	2			
<ul> <li>be not exceeding</li> <li>(2) Where the applicable tariff pro</li> </ul>	property is hereby specifically stated by the shipper to perperrer	are COD	Amt: \$	C.O.D. PREPA COLLE	FEE: ID D CT D \$	
the carner's liability or declare a provided by such provisions. See (3) Commodities requiring specia must be so marked and package	value, the carrier's liability shall be limited to the extent transport according to applic	able Subject to Section 7 of the consignee without recourse of following statement:	conditions, if this shipment is to be de on the consignor, the consignor sh e delivery of this shipment without rges.	payment of FREIGHT	FIGHT CHAR	IGES ck box if charges are to be
the Contract Terms and Conditio	ons for a list of such articles. Signat ED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.		Signature of Consignor) h party at any time interested in all o	except whi right is che	cked	collect
the propert tents of pa (the word possession nation, if o	Let begind to the desinearbatic and dama in effect of nine date of the issue of the date of calling. By described above in apparent good order, except as noted (contents and condition of con- ackages unknown), marked, consigned, and destined as indicated above which said carrier carrier being understood throughout this contract as meaning any person or corporation in a of the property under the contrach agrees to carry to its usual place of delivery at said desti- no its roule, otherwise to deliver to another carrier on the route to said destination. It is mutu- d as to each carrier of all or any of, said property over all or any portion of said route to des-	performed hereunder s sification on the date Shipper hereby	hall be subject to all the bill of lading of shipment. certifies that he is familiar with a on and the said terms and condition	terms and conditions in I the lading terms and	the governing cl conditions in t	as- he
SHIPPER Chevro	on Environmental Management Company	CARRIER				л
PER Fredd	lie Robinson	PER				1
Fuddie	Solomon Of CEMC	DATE				
Permanent post-office ad	ddress shipper.	STYLE CF375-4 ©2	2012 LABELMASTER® (80	0) 621-5808 www.	labelmaster.	com

	NOT NEGOTIABLE	ING	Shipper No. N	/A	
			Carrier NoN	I/A	
RWI Construction			Date	11-19	5-13
Page of (Nam	e of carrier)	(SCAC)			
On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Se TO:	c.1. FROM: CEMC,	Lovington Pac	ddock Unit#	96	
Consignee Sundance Services	Street Unit N	V, Section 31,	T17S, R37H	Ξ	
Street Sundance Lane	City Lea C	ounty	State NM 2	Zip Code	
City Eunice State NM Zip Code 88231	24 hr. Emergency G	ontact Tel. No(5	05) 280-057	2	
Route NM-18 -> HOBES BYPASS -> NM-18			Vehicle Numbe		1
No. of Units & Container Type HM UN or NA Number, Proper Shipping Name, Hazard	Class, Packing Group	TOTAL QUANTITY (Weight, Volume,	WEIGHT (Subject to	RATE	CHARGES (For Carrier
NON DOT-Regulated Material (soil		Gallons, etc.)	Correction)		Use Only)
		1210			
	0				
<u>r</u>					
TK# 270498					
		P			
		2			
		2			
PLACARDS TENDERED: YES D NO	REMIT C.O.D. TO:				
Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The consignment are fully and acc be not exceeding per"	of this ADDRESS	1997 - Mr 1996	C.O.D. F PREPAI	EE:	
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent transport according to app	nd are on for Subject to Section 7 of the o	Amt: \$	elivered to the TOTAL	Т 🛛 \$	
provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of	nental following statement:	on the consignor, the consignor : te delivery of this shipment withour rges.	ut payment of FREI	GHT CHAR	GES
		Signature of Consignor) h party at any time interested in all	or any said property, that ev	Led L	ck box if charges are to be collect
the property described above in apparent good order, except as noted (contents and condition of con- tents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said desti- nation, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutu- ally agreed as to each carrier of all or any of, said property over all or any portion of said route to des-	performed hereunder s sification on the date Shipper hereby	shall be subject to all the bill of ladi of shipment. certifies that he is familiar with on and the said terms and condition	ng terms and conditions in th all the lading terms and c	e governing cla onditions in t	is-
SHIPPER Chevron Environmental Management Company.	CARRIER				
PER Freddie Robineen	PER	6			- 1
PILIS Al Agent on belief The	DATE				U
Permanent post-office address of shipper.		2012 LABELMASTER® (8	00) 621 5000	bolmeet	

#### STRAIGHT BILL OF LADING ORIGINAL - NOT NEGOTIABLE

Shipper No. N/A

						Carrier No.	N/A	
Page c	of 1		VI Construction			Date	11-15	5-13
. ugo t			(Name of c	carrier)	(SCAC)			
TO:		"COD" must appear before consignee's name of Services	or as otherwise provided in Item 430, Sec.1.	Snipper	, Lovington Pa			
Sun	dance			Street Unit	N, Section 31,	T17S, R3	7 E	
Street				City Lea	County	State NM	Zip Code	
City Euni		State NM	Zip Code 88231	24 hr. Emergency	Contact Tel. No(5	05) 280-05	72	
Route NM-	18 -	7 HOBBS BYPAS	5 -2 MM-18			Vehic Numl		3
No. of Units & Container Type	HM	1011000 00-000 00 00 0020	BASIC DESCRIPTION er Shipping Name, Hazard Class	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrie Use Only)
DT		NON DOT-Regulated	Material (soil)		12 003			
	-			2				
1				-				
	-							
Ϋ						-		
_								
4				1.1				
6								
4			2					0
		TK# 2	70.583					
lote (1) Where the ra	ate is depend	NDERED: YES IN NO IN ent on value, shippers are required to state	I hereby declare that the contents of this	REMIT C.O.D. TO: ADDRESS				
pecfically in writing the a igreed or declared value o ie not exceeding 2) Where the applicable tar release or a value decl	agreed or dec of the property riff provisions s	lared value of the property, as follows: "The is hereby specifically stated by the shipper to per	consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in a statement of the statement of the statement of the statement in the statement of the s	COD	Amt: \$	C.O.D. PREPA COLLE	FEE: ID	
ne carner's liability or decla provided by such provisions 3) Commodities requiring s nust be so marked and page	are a value, th s. See NMFC It special or add ckaged as to e	e carrier's liability shall be limited to the exten em 172. itional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of a Carbon and a Carbon and a Carbon and a Carbon and a Carbon a	t transport according to applicable international and national governmental regulations.	following statement:		hall sign the CHARG t payment of FREIGHT except whe	EIGHT CHARG	box if charges are to be
RE the p tents (the ' posse nation	ECEIVED, subject property describ of packages u word carrier be ession of the pr n, if on its route	ct to the classifications and tariffs in effect on the d ed above in apparent good order, except as no inknown), marked, consigned, and destined as nig understood throughout this contract as me openty under the contract) agrees to carry to its e, otherwise to deliver to another carrier on the ch carrier of all or any of, said property over all	late of the issue of this Bill of Lading, ted (contents and condition of con- indicated above which said carrier aning any person or corporation in usual place of delivery at said desti- route to said desti- ante to said desti-	performed hereunder sification on the da Shipper hereb	by certifies that he is familiar with a ation and the said terms and condition	g terms and conditions in	every service to b the governing clas	i-
		nvironmental Manag		CARRIER				
ER Fr	eddie Ro	bingh	1 1 . 10	PER				- 1
Frid 1	: Q	Agent	A come	DATE				

STYLE CF375-4 © 2012 LABELMASTER® (800) 621-5808 www.labelmaster.com

Permanent post-office address of shipper.

STRAIGHT BILL OF LADING ORIGINAL - NOT NEGOTIABLE	Shipper No. $\underline{N/A}$
	Carrier No. N/A

	RWI Construction			Data 11-	-15-13
Page of	(Name +	of carrier)	(SCAC)	Date	
то:	e letters "COD" must appear before consignee's name or as otherwise provided in item 430, Sec.1	FROM: CEMC,	Lovington Pad	dock Unit#96	
	ce Services	- Street Unit N	, Section 31,	T175, R37E	
Street Sundand	ce Lane	- City Lea C	ounty	State NM Zip (	Code
City Eunice	State NM Zip Code 88231	24 hr. Emergency Co	ontact Tel. No(50	5) 280-0572	
Route NM-18	-7 HOBBS Bripass -7 NM-18		2	Vehicle Number	3
No. of Units & Container Type	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Cl	ass, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	ATE CHARGES (For Carrier Use Only)
DT	NON DOT-Regulated Material (soil)		12 x23		
-	TV# 79496				
	TK# 270494				
					_
PLACABO		REMIT			
Note — (1) Where the rate is specifically in writing the agreed	dependent on value, shippers are required to state I hereby declare that the contents of or declared value of the property, as follows: "The consignment are fully and accurate	this ADDRESS			
agreed or declared value of the p be not exceeding	roperty is hereby specifically stated by the shipper to per per mame and are classified, packa marked and labelled/placarded, and	ged, COD	Amt: \$	C.O.D. FEE: PREPAID C COLLECT C	
a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of		able subject to Section 7 of the consignee without recourse following statement: The carrier shall not mak freight and all other lawful cha	or Subject to Section 7 of the conditions, if this shipment is to be delivered to the inconsignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. FREIGHT CHARGE		
the Contract Terms and Condition RECEIVE	D, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.		Signature of Consignor) h party at any time interested in all	except when box a right is checked or any said property, that every s	collect
the property tents of par (the word o possession nation, if on	y described above in apparent good order, except as noted (contents and condition of con- ckages unknown), marked, consigned, and destined as indicated above which said carrier arrier being understood throughout this contract as meaning any person or corporation in of the property under the contract) agrees to carry to its usual place of delivery at said desti- nits route, otherwise to deliver to another carrier on the route to said destination. It is mutu- as to each carrier of all or any of, said property over all or any portion of said route to des-	performed hereunder s sification on the date Shipper hereby	hall be subject to all the bill of ladir of shipment, certifies that he is familiar with a on and the said terms and conditio	g terms and conditions in the go II the lading terms and condit	verning clas- ions in the
SHIPPER Chevror	n Environmental Management Company	CARRIER			
DED	e Robinson	PER	0		1

- turlda Y	duna Hyentonkoho	DATE
Permanent post-office address of shippe	PRIVIED CVI RECYCLED PAPER USING SCYDEAN NR	STY

STYLE CF375-4 © 2012 LABEL MASTER (800) 621-5808 www.labelmaster.com

				STRAIGHT BII			NG	Shippe	r No. N	/A	
								Carrie	r No. N	/A	
Page	_1 of	1	RW	I Construction			Televice. News		Date <u>/</u>	1-15-	-13
On Collect on Deli	iven/ shipmon	to the letters	"ODD"	(Name of e			(SCAC)				
TO:			"COD" must appear before consignee's name o	r as otherwise provided in Item 430, Sec.1.	FROM: Shipper	CEMC,	Lovington Pac	ddock	Unit#	96	
Consignee		ance	Services		Street	Unit N	, Section 31,	T17S	R37E		
Street	ounce	ance	Lane		City	Lea C	ounty	State N	M Z	Zip Code	
City	Eunic	e ·	State NM	Zip Code 88231	24 hr. Ei	mergency Co	ontact Tel. No(5	05) 28	0-057	2	
Route	NM-1	8-7	HOBBS BYPASS -	7 NM-18					Vehicle Numbe		
No. of Ur & Container		HM		BASIC DESCRIPTION or Shipping Name, Hazard Clas	s, Packing	Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	(Sub	GHT ect to ection)	RATE	CHARGES (For Carrier Use Only)
D	T		NON DOT-Regulated	Material (soil)			12 YD3				
			Sec. 1								
-											
-				1							
-			TI, AMA	24							
8			IK LIVA	, , ,							
_			0								
			K								
-	4		G	43	W. College						
P	PLACAR	DS TEN	NDERED: YES 🖂 NO 🗆	_	REMIT					2	
specifically in w agreed or declar	riting the agr red value of ti	eed or declar he property i	nt on value, shippers are required to state ared value of the property, as follows: "The s hereby specifically stated by the shipper to	consignment are fully and accurately described above by the proper shipping	- ADDITEC	SS	the second s		C.O.D. FE	с,	
a release or a	oplicable tariff value declar	provisions sp ation by the	per pecify a limitation of the carrier's liability absent shipper and the shipper does not release carrier's liability shall be limited to the extent	name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for	CO	and the second se	Amt: \$		PREPAID COLLECT		
(3) Commodities must be so mark item 360, Bills o	n provisions. S s requiring sp ked and pack of Lading. Fre	See NMFC Ite ecial or addit aged as to er ight Bills and	in T22. ional care or attention in handling or stowing isure safe transportation. See Section 2(e) of 5 Statements of Charges and Section 1(a) of st of such articles.	international and national governmental regulations.	following state The carrie freight and all	ithout recourse or ment: er shall not make I other lawful charg	the consignor, the consignor s delivery of this shipment without	hall sign the	TOTAL CHARGES FREIGHT PR except when b right is checke	GHT CHARC	GES k box if charges are to be collect
	the pro tents of (the wo possess nation,	perty describe packages un rd carrier bei ion of the pro if on its route	to the classifications and tariffs in effect on the d d above in apparent good order, except as no known), marked, consigned, and destined as ng understood throughout this contract as me perty under the contract) agrees to carry to its , otherwise to deliver to another carrier on the in carrier of all or any of, said property over all	ted (contents and condition of con- indicated above which said carrier aning any person or corporation in usual place of delivery at said desti- route to said destination. It is mutu-	perfor sifica gove	on and as to each rmed hereunder sha ation on the date of Shipper hereby of	party at any time interested in all all be subject to all the bill of ladir f shipment. ertities that he is familiar with i n and the said terms and conditio	ng terms and co	perty, that eve anditions in the	ry service to b governing clas	0 5-
SHIPPER			vironmental Manage	and the second se	CARRIE	R					
PER		Idie Po		. l. l. l. d	PER						_ 1
fuel	dei	flot	man CTS	mc mc C	DATE						
Permanent p	post-office	adoress c	f shipper.		STYLE	CF375-4 © 20	12 LABELMASTER® (8	00) 621-580	8 www.lab	elmaster.co	om

		STRAIGHT B	ILL OF LADI	NG	Shipper No. N	/A	
					Carrier NoN	/A	
Page 0	-f 1	RWI Construction			Date	1-13	5-13
	л <u>~</u>	— (Name e	of carrier)	(SCAC)			
TO:		"COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1	FROM: CEMC,	Lovington Pac	dock Unit#	96	
Consignee Sun	dance	Services	Street Unit N	I, Section 31,	T17S, R37E		
Street Sun	dance	Lane	- City Lea C	ounty	State NM Z	ip Code	
City Eun:	ice	State NM Zip Code 88231	24 hr. Emergency Co	optact Tel No (5	05) 280-057	2	
Route MM	-18	-> HOBBS BYPASS -> NM-18	Life Life goldy ex		Vehicle		80
No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard CI	ass, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
DT		NON DOT-Regulated Material (soil)		20 03			
							1
	-		9		· · · · · · · · · · · · · · · · · · ·		
	-						
-					÷		
		-			-la	1	
	-						
	•						
			1.				
	-						
	-	y, # 7759/1					
	-	TK - LIUISI					
		4					
Harrison			REMIT C.O.D. TO:				
specifically in writing the agreed or declared value be not exceeding	agreed or dec of the property	ent on value, shippers are required to state lared value of the property, as follows: "The is hereby specifically stated by the shipper to per name and are classified, packag	tely	Amb C	C.O.D. FE PREPAID	E:	
a release or a value dec	claration by the	specify a limitation of the carrier's liability absent e shipper and the shipper does not release in all respects in proper condition transport according to applicit	for ble Subject to Section 7 of the c	Amt: \$	COLLEC alivered to the TOTAL	r 🗆 💲	
(3) Commodities requiring must be so marked and pa item 360, Bills of Lading.	special or add ackaged as to e Freight Bills ar	Ititional care or attention in handling or stowing ansure safe transportation. See Section 2(e) of d Statements of Charges and Section 1(a) of	following statement: The carrier shall not make freight and all other lawful char	e delivery of this shipment withou	or a to the	GHT CHAR EPAID Che	IGES ick box if charges are to be
the Contract Terms and C	ECEIVED, subje	list of such articles Signat to to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, ped above in apparent good order, except as noted (contents and condition of con-	tination and as to each	Signature of Consignor) n party at any time interested in all hall be subject to all the bill of ladir	right is checked	ed L	collect
tent (the pos nati	ts of packages word carrier b session of the p on, if on its rout	but device an apparent goud of use, except as indeed (contents and containation of contents) and carrier entry and device and an advection of the second of the second of the second and carrier and device of throughout this cent to an advect and as indicated above which said dearlier operly under the contract) agrees to carry to its usual place of delivery at said desli- te, otherwise to deliver to another carrier on the route to said destination. It is multi- ach carrier of all or any of, said carrier on the route to agree delivery at said best of the context of a context of a said carrier of the context of the	sification on the date Shipper hereby	of shipment. certifies that he is familiar with a on and the said terms and conditio	all the lading terms and co	anditions in t	he
		nvironmental Management Company	CARRIER			÷	
PER	reddie Ro	· · ·	PER				- 1
the	de.	Gliff Agenton beh	DATE				U
Permanent post-offi	ice address	of shill per.	STYLE CF375-4 © 2	2012 LABELMASTER® (8)	00) 621-5808 www.lal	pelmaster.	com

			HT BILL O		NG	Shipper No.	N/A	
						Carrier No.		
age o	e 1	RWI Construct	tion			Date	11-13	5-13
	/i	-	(Name of carrier)		(SCAC)			
0:		"COD" must appear before consignee's name or as otherwise provided in Ite	em 430, Sec.1. FROM Shipp		Lovington Pad	dock Uni	t#96	a.
		Services	Stree	Unit N	, Section 31,	T175, R3	37E	
treet Sund	dance	Lane	City	Lea C	ounty	State NM	Zip Code	
ity Euni	.ce	State NM Zip Code 882	231 24 hr	Emergency Co	ontact Tel. No(50	)5) 280-0	)572	
oute MM-1	8 -	HOBISS BYPASS -2 NM-	-18				hicle mber O	l
No. of Units & Container Type	НМ	BASIC DESCRIPTI UN or NA Number, Proper Shipping Name, H		ng Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGE (For Carrie Use Only)
DT		NON DOT-Regulated Material (	soil)		12 ros			
	-							
				81 1				
			the state process of the same			· · · · · · · · · · · · · · · · · · ·		
						÷	_	
		A THE PARTY AND						
				2				
	-	TK# 2705	587					
		- IR # 210.	SUL					
а. С	0	-10						
					2			
		NDERED: YES  NO		D. TO:	·			
specifically in writing the agreed or declared value be not exceeding	agreed or dec of the property	ent on value, shippers are required to state hared value of the property, as follows: "The is hereby specifically stated by the shipper to per"	y and accurately	OD	Amt: \$	C.O PRE	.D. FEE: EPAID	
a release or a value dec	claration by th clare a value, th	specify a limitation of the carrier's liability absent e shipper and the shipper does not release in all respects in proj transport according	per condition for to applicable Subje	ct to Section 7 of the	conditions, if this shipment is to be di	COI elivered to the TOT	LECT 🗆 💲	
(3) Commodities requiring must be so marked and pa item 360, Bills of Lading,	special or add ackaged as to e Freight Bills ar	ititional care or attention in handling or stowing regulations. ensure safe transportation. See Section 2(e) of d Statements of Charges and Section 1(a) of	following The freight a	statement:	e delivery of this shipment withou rges.	t payment of	FREIGHT CHAP	eck box if charges
the Contract Terms and C	ECEIVED, subje	list of such articles.	Signature	tination and as to eac	Signature of Consignor) h party at any time interested in all hall be subject to all the bill of ladir	or any said property, 1	s checked [ that every service to	are to be collect
tent (the pos: nati	s of packages word carrier b session of the p on, if on its rou	unknown), marked, consigned, and destined as indicated above which said eing understood throughout this contract as meaning any person or corpo roperty under the contract) agrees to carry to its usual place of delivery at sa le, otherwise to deliver to another carrier on the route to said destination. It	id carrier pration in aid desti- is mulu-	sification on the date Shipper hereby	of shipment. certifies that he is familiar with a on and the said terms and conditio	all the lading terms	and conditions in	the
		ach carrier of all or any of, said property over all or any portion of said route	1	RIER	18 U.U.			
DED			PER					
P	eutie Ri	-c/A Hauters	kehilo	•				-
Permanent post-offi	reddie Ro Lui ice address	- Colmen Senter	CEM DATE		2012 LABELMASTER® (8	00) 621-5808 w	ww.labelmaster.	.com

			STRAIGHT BIL ORIGINAL - NO		NG	Shipper No	. N/A	
						Carrier No	. N/A	
	. 1		[ Construction			Date	e 11-13	-13
Page o	ſ <u>_</u> +	-	(Name of c	arrier)	(SCAC)			
TO:		"COD" must appear before consignee's name or	as otherwise provided in Item 430, Sec.1.	FROM: CEMC,	Lovington Pac	dock Uni	it#96	
Consignee Sunc	lance	Services		Street Unit N	, Section 31,	T17S, R	(37E	
Street Sund	iance	Lane		City Lea C	ounty	State NM	Zip Code	
City Euni	Ce	State NM	Zip Code 88231	24 hr. Emergency Co	ontact Tel. No(5	05) 280-	0572	
Route MM-	-18	-> HOBBS BYP	45 -> NM-12	the second s			ehicle 7	6
No. of Units & Container Type	HM	Construction and an and a second s	ASIC DESCRIPTION Shipping Name, Hazard Class	s, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
DT		NON DOT-Regulated	Material (soil)		12 YD3	Correction,	,	Use Only)
					in in		-	
		2		N				
				1.)-		u.		
			· · · · · · · · · · · · · · · · · · ·					
								_
								· ·
		TR 27049	27					
		IN ZIUT	<i>(  </i>					
			le					
Note (1) Where the ra	ate is depend	NDERED: YES  NO ent on value, shippers are required to state		REMIT C.O.D. TO: ADDRESS				
specifically in writing the a agreed or declared value o be not exceeding	agreed or dec f the property	lared value of the property, as follows: "The is hereby specifically stated by the shipper to per pecify a limitation of the carrier's liability absent	consignment are fully and accurately described above by the proper shipping name and are classified, packaged,	COD	Amt: \$	C.O.D. FEE: PREPAID		
a release or a value decl the carrier's liability or decl provided by such provisions	aration by th are a value, th . See NMFC I	e shipper and the shipper does not release the carrier's liability shall be limited to the extent tem 172.	marked and labelled/placarded, and are in all respects in proper condition foi transport according to applicable international and national governmental	Subject to Section 7 of the c consignee without recourse of following statement:	onditions, if this shipment is to be d n the consignor, the consignor :	COLLECT S		
must be so marked and pa	ckaged as to e reight Bills ar	Itional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of ad Statements of Charges and Section 1(a) of list of such articles.	regulations. Signature	The carrier shall not make freight and all other lawful char	e delivery of this shipment withou ges. signature of Consignor)	FRE	FREIGHT CHAP	RGES ack box if charges are to be collect
the p tents (the poss natio	oroperty descrit of packages word carrier b ession of the p n, if on its rout	ct to the classifications and tariffs in effect on the du- bed above in apparent good order, except as not unknown), marked, consigned, and destined as sing understood throughout this contract as mer roperty under the contract) agrees to carry to its e, otherwise to deliver to another carrier on the r	ed (contents and condition of con- ndicated above which said carrier ning any person or corporation in sual place of delivery at said desti- oute to said destination. It is mutu-	tination and as to each performed hereunder si sification on the date o Shipper hereby	a party at any time interested in all hall be subject to all the bill of ladi of shipment, certifies that he is familiar with n and the said terms and conditio	or any said property, ng terms and condition all the lading terms	that every service to ns in the governing c and conditions in	be las- the
ally a	agreed as to ea	ach carrier of all or any of, said property over all	or any portion of said route to des-	CARRIER				
PER O			mone company	PER				- 1
Fuel	eddie Ro	Colon the	tor behal	DATE				U
Permanent post-offic	e address	of shipper.		STYLE CF375-4 © 2	012 LABELMASTER® (8	00) 621-5808 w	ww.labelmaster.	com