

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

State of New Mexico
Energy Minerals and Natural
Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Merrion Oil & Gas Corporation	OGRID 14634
Contact Name Philana Thompson	Contact Telephone 505-486-1171
Contact email pthompson@merrion.bz	Incident # (assigned by OCD) n1F1829627459
Contact mailing address 610 Reilly Ave Farmington, NM 87401	

Location of Release Source

Latitude 36.3909378 _____ Longitude -107.7018967 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Keeling Federal #1	Site Type Oil Well
Date Release Discovered 2:30 PM 10/11/18	API# (if applicable) 30-045-05299

Unit Letter	Section	Township	Range	County
B	20	25N	8W	San Juan

NMOCD

JAN 18 2019

DISTRICT III

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 85 bbls	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

At 2:30 PM on 10/11/2018 An estimated 85 barrels of historic solidified oil was revealed while cleaning the Keeling location for divestiture. The oil stained soil resides roughly 3 feet below the ground surface with an estimated impact area indicated on the attached map (6 yds x 30 yds w/ ~10% contamination). Cleanup will comprise of moving the production oil tanks away from the contaminated area and removing the contaminated soil. The contaminated soil will be hauled to Envirotech. After the contaminated soil is removed, a composite sample will be taken from the exposed area and tested to ensure constituents are below NMOCD Table I thresholds (Groundwater <50'). Once the soil limits are suitable to Table I standards, the area will be backfilled with clean soil.

110

Incident ID	
District RP	
Facility ID	
Application ID	

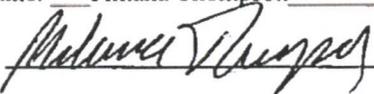
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

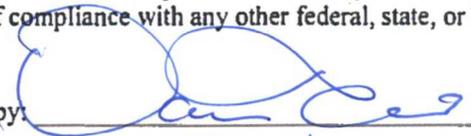
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Philana Thompson Title: Regulatory Compliance Specialist
 Signature:  Date: 1/14/2019
 Email: pthompson@merrion.bz Telephone: 505-486-1171

OCD Only

Received by: Vanessa Fields Date: 1/18/2019

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 1/31/2019
 Printed Name: Vanessa Fields Title: Environmental Specialist

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Location of Release Source

Latitude 36.3909378 Longitude -107.7018967
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Keeling Federal #1	Site Type Oil Well
Date Release Discovered 2:30 PM 10/11/18	API# (if applicable) 30-045 05299

Unit Letter	Section	Township	Range	County
B	20	25N	8W	San Juan

NMOCD

OCT 15 2018

DISTRICT III

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 85 bbls	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
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<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
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Cause of Release

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NMOCD

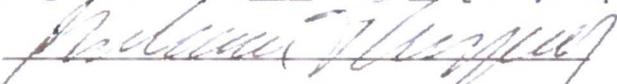
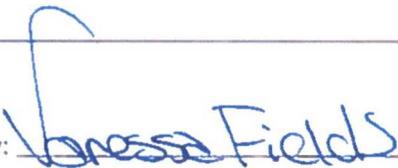
4

Incident ID	
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? 19.15.29.7 A. (1) an unauthorized release of a volume, excluding gases, of 25 bbls or more
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Philana Thompson via email to Vanessa & Cory with the NMOCD & Josh Whitney & Emmanuel with the FFO BLM 10/12/2018 at 10:40 AM	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Philana Thompson</u> Title: <u>Regulatory Compliance Specialist</u> Signature: <u></u> Date: <u>10/12/2018</u> email: <u>pthompson@merrion.bz</u> Telephone: <u>505-486-1171</u>
OCD Only Received by: <u></u> Date: <u>10/15/2018</u>

Keeling Oil Spill

An estimated 85 barrels of historic solidified oil was revealed while cleaning the Keeling location for divestiture. The oil stained soil resides roughly 3 feet below the ground surface with an estimated impact area indicated on the attached map (6 yds x 30 yds w/ ~10% contamination). Cleanup will comprise of moving the production oil tanks away from the contaminated area and removing the contaminated soil. The contaminated soil will be hauled to Envirotech. After the contaminated soil is removed, a composite sample will be taken from the exposed area and tested to ensure constituents are below NMOCD Table I thresholds (Groundwater <50'). Once the soil limits are suitable to Table I standards, the area will be backfilled with clean soil.

Keeling Produced Water Tank Spill

30.78 bbls leaked from a hole on the bottom of the Keeling's production water tank. A composite sample of the contaminated soil indicated chloride and TPH levels above NMOCD Table I limits. Cleanup will comprise of moving the production water tank away from the contaminated area and removing the contaminated soil. The contaminated soil will be hauled to Envirotech. After the contaminated soil is removed, a composite sample will be taken from the exposed area and tested to ensure constituents are below NMOCD Table I thresholds (Groundwater <50'). Once the soil limits are suitable to Table I standards, the area will be backfilled with clean soil.

Keeling Federal 1

Write a description for your map.

Legend

-  Keeling Oil Spill
-  Produce Water Tank Spill

Keeling 1

Google Earth

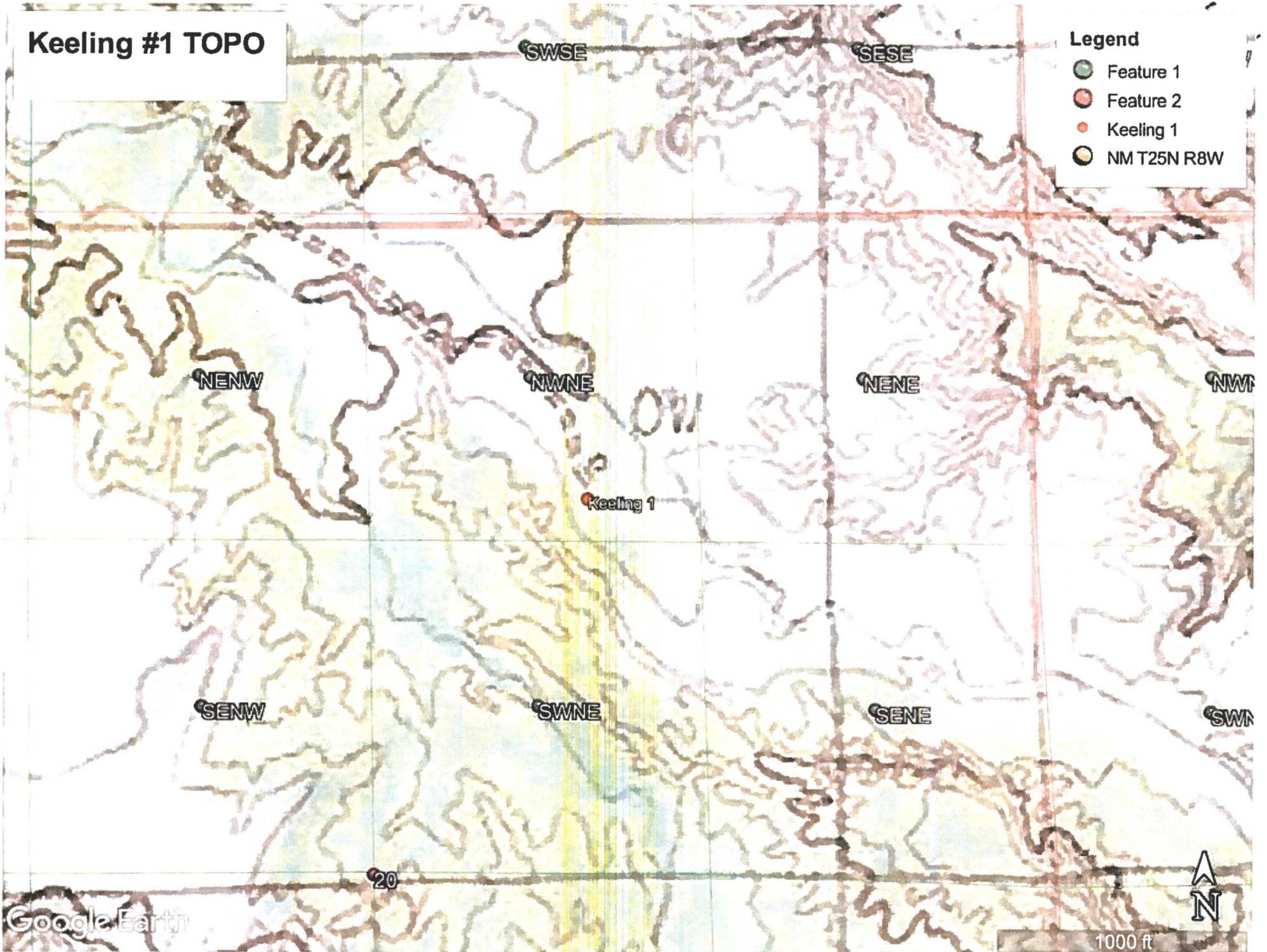
100 ft



Keeling #1 TOPO

Legend

- Feature 1
- Feature 2
- Keeling 1
- NM T25N R8W



Keeling #1

- Legend**
- 20
 - Feature 1
 - Keeling 1
 - NM T25N R8W

304
27ft

Keeling 1 88 feet
64 feet Oil 61 feet
78 feet



17: T25N.R8W

1000 ft

500 ft

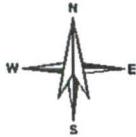
300 ft

200 ft

3004505299
Type O

20: T25N.R8W

0 200 400ft



Petroleum Recovery
Research Center

Keeling #1

nVF1829627459 nVF182962966



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
SJ 01979		SJ	SJ	3	2	32		25N	09W	247838	4027524	1180	628	552
SJ 04149 POD1		SJ	SJ	2	3	2	34	25N	09W	251224	4027500	1000		

Average Depth to Water: **628 feet**
 Minimum Depth: **628 feet**
 Maximum Depth: **628 feet**

Record Count: 2

Basin/County Search:

Basin: San Juan

County: San Juan

PLSS Search:

Township: 25N

Range: 09W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/14/18 3:16 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
RG 36933	POD1	2 2 3	11	25N	10W	242903	4033769*

Driller License: 741	Driller Company: SAULSBERRY, FRED	
Driller Name: SAULSBERRY, FRED		
Drill Start Date: 02/15/1983	Drill Finish Date: 07/20/1983	Plug Date:
Log File Date: 09/02/1983	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 20 GPM
Casing Size: 6.50	Depth Well: 180 feet	Depth Water: 60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	170	176	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	165	180

*UTM location was derived from PLSS - see Help

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11/26/18 8:08 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	SJ 01715	4	4	22	25N	10W	241895	4030074*	

Driller License:

Driller Company:

Driller Name:

Drill Start Date: 07/13/1963

Drill Finish Date: 01/30/1964

Plug Date:

Log File Date:

PCW Rcv Date:

Source: Shallow

Pump Type: WINDMI

Pipe Discharge Size:

Estimated Yield: 30 GPM

Casing Size: 6.63

Depth Well: 637 feet

Depth Water: 250 feet

*UTM location was derived from PLSS - see Help

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11/26/18 8:08 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	SJ 01712	2	4	27	24N	09W		251195	4018933*

Driller License:

Driller Company:

Driller Name: OREN KIRK DRILLING CO.

Drill Start Date: 06/10/1963

Drill Finish Date: 02/26/1964

Plug Date:

Log File Date:

PCW Rcv Date:

Source: Shallow

Pump Type: WINDMI

Pipe Discharge Size:

Estimated Yield: 25 GPM

Casing Size: 6.63

Depth Well: 528 feet

Depth Water: 515 feet

*UTM location was derived from PLSS - see Help

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11/26/18 7:28 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)			(quarters are smallest to largest)		(NAD83 UTM in meters)		
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	SJ 03141	3	2	1	29	24N	10W	237520	4019956*
Driller License: 1508		Driller Company:		HARGIS CONSULTING WATER WELL					
Driller Name:									
Drill Start Date:	02/28/2002	Drill Finish Date:	03/25/2002		Plug Date:				
Log File Date:	04/02/2002	PCW Rcv Date:	Source: Shallow						
Pump Type:		Pipe Discharge Size:	Estimated Yield: 4 GPM						
Casing Size:	7.00	Depth Well:	640 feet		Depth Water: 595 feet				

*UTM location was derived from PLSS - see Help

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11/26/18 8:06 AM

POINT OF DIVERSION SUMMARY

Keeling #1 Sampling Events

Location	Bottom 1 produced water spill	Bottom 2 Small oil Contamination	South Bench Site 3	North Bench Site 3	North Shelf Site 3	Bottom 3 Site 3	West Wall Site 3	East Wall Site 3	Limit
Collection Date	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018	
Chlorides	337	329	532	863	209	112	205	179	600 mg/kg
TPH	ND	ND	265.7	ND	681.8	255.2	36.3	616	100 mg/kg
BTEX	ND	ND	ND	ND	ND	ND	ND	ND	50 mg/kg
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	10 mg/kg

Location	Bottom West	Bottom East	Bottom West South	Bottom East South	North Wall 1	North Wall 2	West Wall 1	West Wall 2	East Wall	South Wall	Limit
Collection Date	11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018	11/19/2018	
Chlorides	225	62.9	282	506	272	68.8	451	330	100	899	600 mg/kg
TPH	ND	ND	37	ND	ND	ND	38.6	83.5	ND	ND	100 mg/kg
BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50 mg/kg
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 mg/kg

Location	South Wall 1	South Wall 2	Limit
Collection Date	12/11/2018	12/11/2018	
Chlorides	267	328	600 mg/kg
TPH	NA	NA	100 mg/kg
BTEX	NA	NA	50 mg/kg
Benzene	NA	NA	10 mg/kg

NVF1829629660 Produced Water 30.78 bbls 9/26/2018
 NVF1829627459 Crude Oil 85 bbls 10/11/2018

October 13, 2018

Work Detail: KCE Services along with 3 D Services went to location. CO out and removed 500 barrel bolted tank, took it to scrap. Charlie continued clean up off spill. (S. Calkins)

October 17, 2018

Work Detail: 3 D Services along with KCE Services went to location on 10/16/18. Moved oil tank and moved water pit for repair. Dug ditch for new dump lines. Dug out soil from under water tank. Preparing for sampling. (S. Calkins)

October 18, 2018

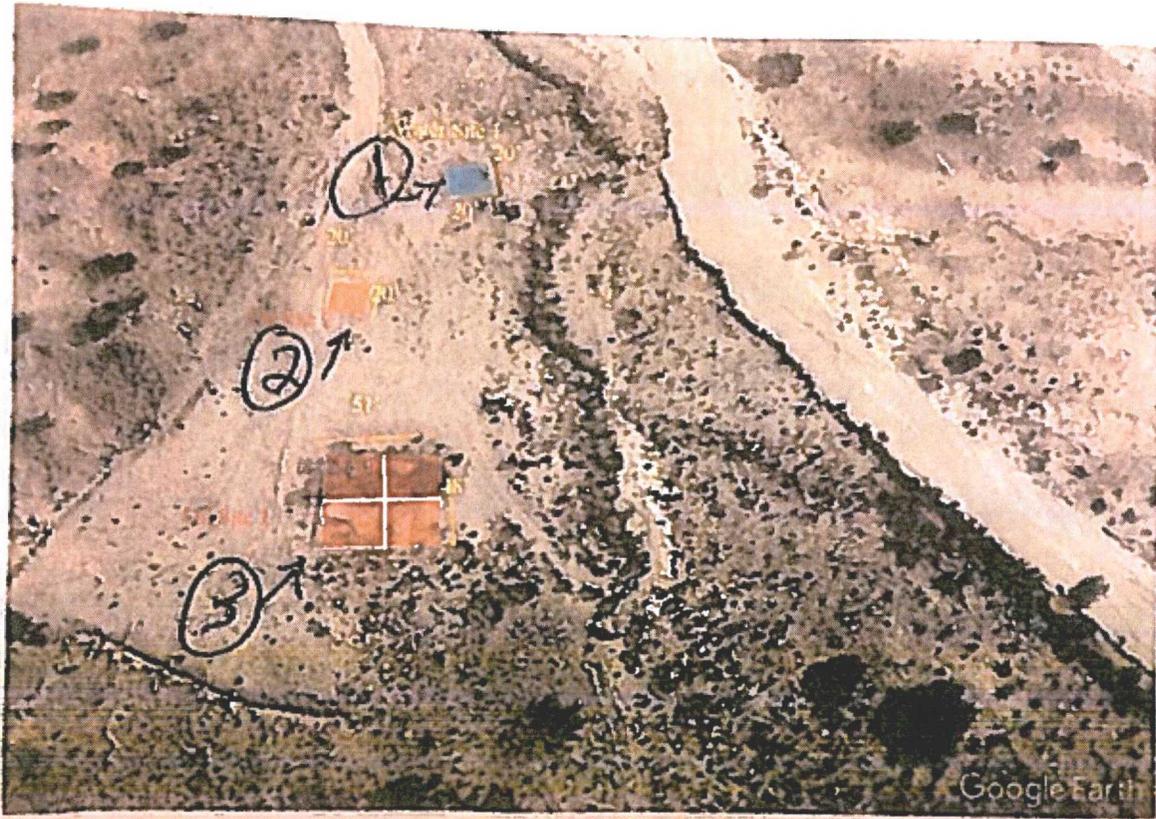
Work Detail: Farmington Fab and Welding, KCE Services and 3 D Services went to location on 10/17/18. Built new water and oil dump lines, repaired holes in water pit (see attached photo). Set water pit, tied in oil dump line to oil tank. Tied in water dump line to water pit, backfilled ditch and built berms. Started digging out oil contaminated soil from where production tanks were set, hauled six belly dump loads of contaminated soil to Enviro Tech land farm. (S. Calkins)

**October 19, 2018**

Work Detail: KCE and 3 D Services went to location 10/18/18. Finished berms and put up fence and top rail. Returned well to production, hauled scrap to scrap yard, 3D Services dug out contaminated soil and hauled 8 belly dump loads to Envirotech land farm. Will soil test in am with OCD and BLM. . (S. Calkins)

October 20, 2018

Work Detail: Went to location with Vanessa from OCD and Emanuel from BLM on 10/19/18. Took soil samples from where water tank was and the historic oil spills, dropped off samples at Envirotech. 3D Services finished loading 8 belly dump loads of contaminated soil and took to Envirotech land farm. We will backfill holes after we hear if there needs to be any further soil cleanup. (S. Calkins)



Soil Contamination Sampling Procedure:

Soil from the 3 sites above will be tested using the following sampling procedure:

- Designate site location and sample date under field notes

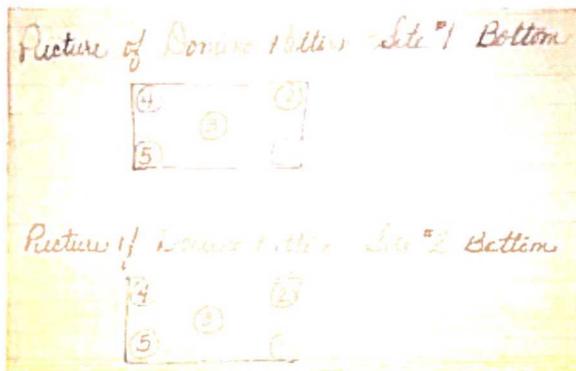
October 30, 2018

Work Detail: Site #1 - Water Spill

Vanessa and Emanuel (NMOCD) wanted samples collected in a domino pattern off the bottom only. Diagram of this pattern is given below. All small samples taken at this area were mixed together to make one composite sample that was turned-in to Envirotech.

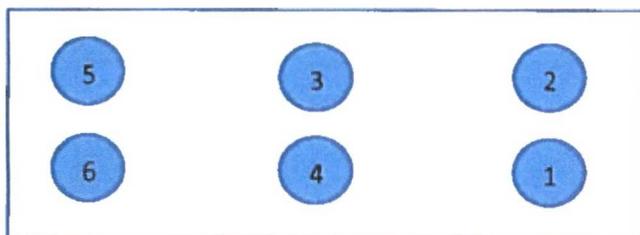
Site #2 - Small Oil Spill

Vanessa and Emanuel (NMOCD) wanted samples collected in a domino pattern off the bottom only. Diagram of this pattern is given below. All small samples taken at this area were mixed together to make one composite sample that was turned-in to Envirotech.

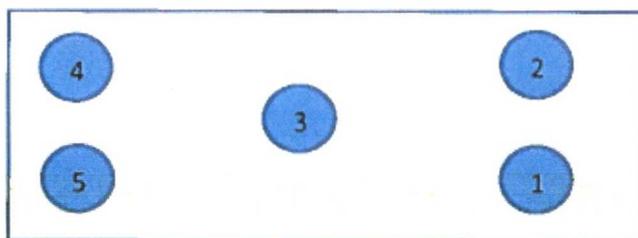


Site 3 (Large Oil Spill)

Vanessa (NMOCD) and Emanuel (BLM) wanted samples collected in a different pattern for the North bench and South bench. The pattern for this is shown below:



For the West wall and East wall, and the bottom of this site, they wanted samples collected in a domino pattern again.



On this site, there was a composite sample from the North bench, South bench, West wall, East wall, and bottom. A total of 5 composite samples were turned in for this location. Had no phone service at these sites to collect GPS coordinates.

Nov. 8, 2018

Work Detail: 3 D Services went to location on 11/7/18. Backfilled hole #1, which was water spill. Will backfill fill hole #2 in AM (which was small oil spill). Start digging hole #3, hauled 2 loads clean dirt and hauled out 2 loads contaminated to Envirotech Land Farm. (S. Calkins)

Nov. 9, 2018

Work Detail: 3 D Services went to location on 11/8/18. Hauled in 4 loads fill dirt, back-filled hole #2. Hauled 4 loads contaminated soil to Envirotech land Farm. (S. Calkins)



Nov. 10, 2018

Work Detail: 3 D Services went to location 11/9/18. After extended extraction of soil on North Bench, we found additional contaminated soil. After removal of all contaminated soil, the North Bench disappeared. The above photo shows some old pipe that was discovered along the South Bench. It has some additional contaminated soil. There is a high probability we will have a south wall. The approximate measurements of the hole's dimensions will be 60 x 6 x 8-1/2 ft. It will have a north wall, south wall, east wall, and west wall. I will go out Monday and check to see if any additional extraction is necessary (if it looks clean, I will take samples to Heather at Rule Engineering). (S. Calkins)



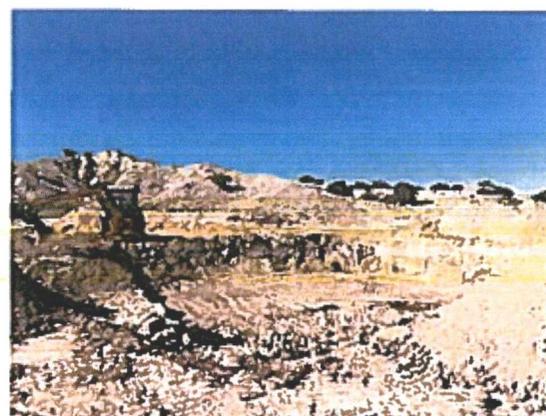
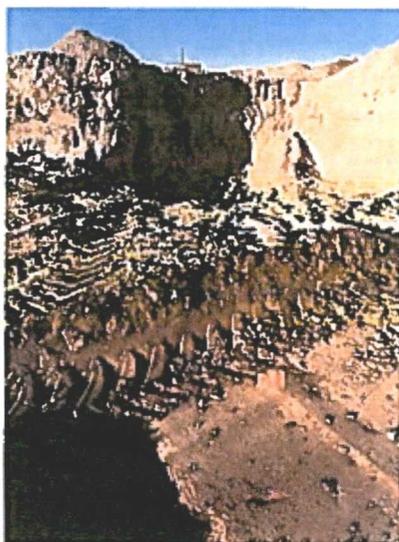
Photo of water spill area now back-filled



Photo of small oil spill area back-filled

Nov. 14, 2018

Work Detail: 3D Services went to location on 11/13/18 and excavated east wall. Hauled multiple loads of contaminated soil out and multiple loads of fill dirt in. Excavated and re-sampled 7 areas (N2, N5, E1, E2, E3, S1, B4). Placed flags at sample areas. (S. Murray)



Nov. 15, 2018

Work Detail: 3 D Services went to location on 11/14/18. Finished digging out hot spots. Gathered samples and took to Heather at Rule Engineering, got results back and have BLM and OCD set up to witness soil sampling on Nov 16th (Friday) at 9:30 AM. (S. Calkins)

Nov. 20, 2018

Work Detail: Site #3 – Oil Spill
Vanessa (NMOCD), Emanuel (BLM), Shacie & Philana (Merrion) on site to conduct soil sampling on 11/19/18. Vanessa & Emmanuel directed where to place flags for sampling the bottom of the site, and then provided guidance on where to grab samples on walls for 5 pt. composites.

Bottom of site was divided into 4 sections, and then a 5 pt. composite sample was taken in each section by Shacie, Philana labeled jars and took the field notes. Labeled as BW (Bottom West), BE (Bottom East), BWS (Bottom West South), and BES (Bottom East South).

North	
BW 5pt comp	BE 5pt comp
BWS 5pt comp	BES 5pt comp
South	

Walls of the site:

The North & West walls were divided into two sections and then a 5 pt. composite sample was taken in each section by Shacie, Philana labeled jars and took the field notes. The jars were labeled as follows; NWall 1 & NWall 2 (North Wall 1 & North Wall 2), WWall 1 & WWall 2 (West Wall 1 & West Wall 2)

North Wall

NWall 1 5pt comp	NWall 2 5 pt. comp
---------------------	-----------------------

West Wall

WWall 1 5pt comp	WWall 2 5pt comp
---------------------	---------------------

The East & South Wall were not divided and a 5 pt. composite sample was taken from each wall.

East Wall
5pt comp

South Wall
5pt comp

The chain of custody was filled out and the samples were taken on ice to Envirotech.



Bottom of Hole with markers



North of hole

Nov. 20, 2018

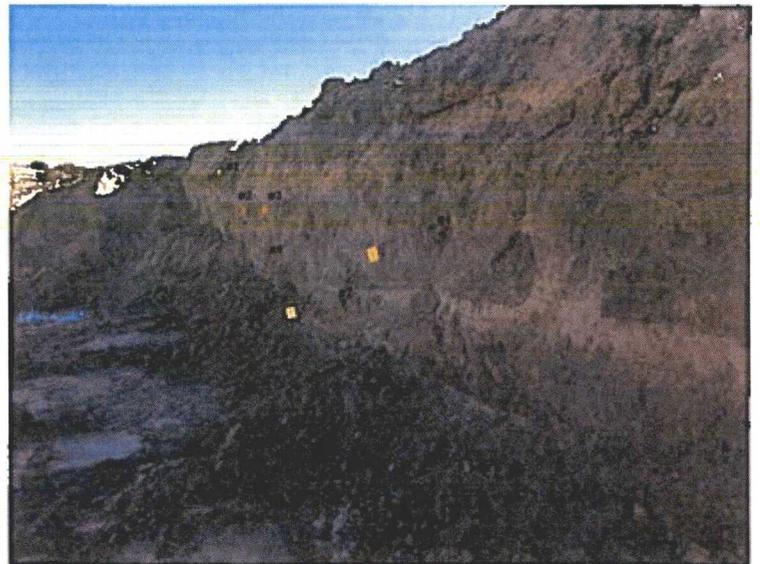
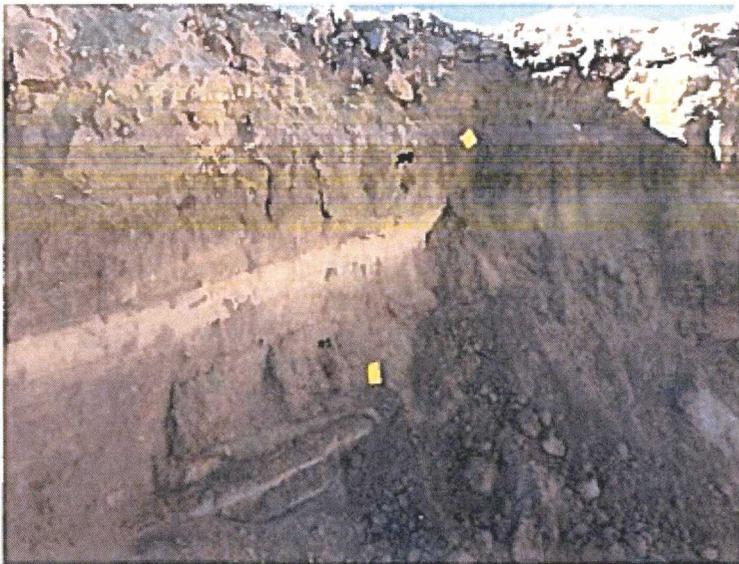
Work Detail: Hauled off 5 loads contaminated soil to Envirotech on 11/19/18. Hauled 5 loads clean soil to location. (G. Reid)

Nov. 21, 2018

Work Detail: Hauled off 64 yards contaminated soil. Hauled 70 clean soil to location. (G. Reid)

Nov. 28, 2018

Work Detail: Drove to location on 11/27/18 to obtain grab samples of south wall due to high reading of Chlorides. (P. Thompson)





Nov. 30, 2018

Work Detail: 3 D Services went to location 11/29/18. Moved dirt pile from south wall, extended south wall out 2 additional feet. Ready to take samples in AM. (S. Calkins)

12/11/2018 Sampled south wall for Chlorides.

12/14/2018 Samples below regulatory limits

12/18/2018 Begin backfill of pit

Analytical Report

Report Summary

Client: Merrion Oil & Gas
Chain Of Custody Number:
Samples Received: 10/19/2018 3:30:00PM
Job Number: 03048-0009
Work Order: P810102
Project Name/Location: Keeling #1

Report Reviewed By:



Date: 10/26/18

Walter Hinchman, Laboratory Director



Date: 10/26/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 10/26/18 15:29
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Bench	P810102-01A	Soil	10/19/18	10/19/18	Glass Jar, 4 oz.
North Bench	P810102-02A	Soil	10/19/18	10/19/18	Glass Jar, 4 oz.
North Shelf	P810102-03A	Soil	10/19/18	10/19/18	Glass Jar, 4 oz.
Bottom #1 Water Site	P810102-04A	Soil	10/19/18	10/19/18	Glass Jar, 4 oz.
Bottom #2	P810102-05A	Soil	10/19/18	10/19/18	Glass Jar, 4 oz.
West Wall	P810102-06A	Soil	10/19/18	10/19/18	Glass Jar, 4 oz.
East Wall	P810102-07A	Soil	10/19/18	10/19/18	Glass Jar, 4 oz.
Bottom #3	P810102-08A	Soil	10/19/18	10/19/18	Glass Jar, 4 oz.

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 10/26/18 15:29
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**South Bench
P810102-01 (Solid)**

Analyte	Reporting				Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Units	Dilution					
Volatiles Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843011	10/23/18	10/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843011	10/23/18	10/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843011	10/23/18	10/25/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843011	10/23/18	10/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843011	10/23/18	10/25/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843011	10/23/18	10/25/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843011	10/23/18	10/25/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1843011	10/23/18	10/25/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843011	10/23/18	10/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	204	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	61.7	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %		50-150	1843011	10/23/18	10/25/18	EPA 8015D	
Surrogate: n-Nonane		149 %		50-200	1843014	10/24/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	532	20.0	mg/kg	1	1843021	10/25/18	10/25/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 10/26/18 15:29
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**North Bench
P810102-02 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Surrogate 4-Bromochlorobenzene-PID		103 %		50-150	1843011	10/23/18	10/26/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843011	10/23/18	10/26/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Surrogate 1-Chloro-4-fluorobenzene-FID		97.2 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
Surrogate n-Nonane		127 %		50-200	1843014	10/24/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	863	20.0	mg/kg	1	1843021	10/25/18	10/25/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 10/26/18 15:29
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**North Shelf
P810102-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatle Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	1843011	10/23/18	10/26/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843011	10/23/18	10/26/18	EPA 8015D	
Range Organics (C10-C28)	584	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	97.8	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
<i>Surrogate 1-Chloro-4-fluorobenzene-FID</i>		99.0 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
<i>Surrogate n-Nonane</i>		152 %		50-200	1843014	10/24/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	209	20.0	mg/kg	1	1843021	10/25/18	10/25/18	EPA 300.0/9056A	

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**Bottom #1 Water Site
P810102-04 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Surrogate 4-Bromochlorobenzene-PID		101 %		50-150	1843011	10/23/18	10/26/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843011	10/23/18	10/26/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Surrogate 1-Chloro-4-fluorobenzene-FID		98.6 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
Surrogate n-Nonane		127 %		50-200	1843014	10/24/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	337	20.0	mg/kg	1	1843021	10/25/18	10/25/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 10/26/18 15:29
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**Bottom #2
P810102-05 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %		50-150	1843011	10/23/18	10/26/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843011	10/23/18	10/26/18	EPA 8015D	
Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.7 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		126 %		50-200	1843014	10/24/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	329	20.0	mg/kg	1	1843021	10/25/18	10/25/18	EPA 300.0/9056A	

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**West Wall
P810102-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
<i>Surrogate 4-Bromochlorobenzene-PID</i>		102 %		50-150	1843011	10/23/18	10/26/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843011	10/23/18	10/26/18	EPA 8015D	
Diesel Range Organics (C10-C28)	36.3	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
<i>Surrogate 1-Chloro-4-fluorobenzene-FID</i>		98.5 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
<i>Surrogate n-Nonane</i>		130 %		50-200	1843014	10/24/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	205	20.0	mg/kg	1	1843021	10/25/18	10/25/18	EPA 300.0/9056A	

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**East Wall
P810102-07 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	1843011	10/23/18	10/26/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843011	10/23/18	10/26/18	EPA 8015D	
I Range Organics (C10-C28)	493	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	123	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.2 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		155 %		50-200	1843014	10/24/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	179	20.0	mg/kg	1	1843021	10/25/18	10/25/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 10/26/18 15:29
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**Bottom #3
P810102-08 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843011	10/23/18	10/26/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	1843011	10/23/18	10/26/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843011	10/23/18	10/26/18	EPA 8015D	
Diesel Range Organics (C10-C28)	169	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	86.2	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.3 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		132 %		50-200	1843014	10/24/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	112	20.0	mg/kg	1	1843021	10/25/18	10/25/18	EPA 300.0/9056A	

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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1843011 - Purge and Trap EPA 5030A

ink (1843011-BLK1)			Prepared: 10/23/18 Analyzed: 10/25/18 2							
Benzene	ND	100	ug/kg							
T	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8210		"	8000		103	50-150			

LCS (1843011-BS1)			Prepared: 10/23/18 Analyzed: 10/25/18 2							
Benzene	5170	100	ug/kg	5000	ND	103	70-130			
T	5220	100	"	5000	ND	104	70-130			
Ethylbenzene	5270	100	"	5000	ND	105	70-130			
p,m-Xylene	10800	200	"	10000	ND	108	70-130			
o-Xylene	5200	100	"	5000	ND	104	70-130			
Total Xylenes	16000	100	"	15000	ND	106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8200		"	8000		103	50-150			

Matrix Spike (1843011-MS1)			Source: P810102-01		Prepared: 10/23/18 Analyzed: 10/25/18 2					
Benzene	5080	100	ug/kg	5000	ND	102	54.3-133			
Toluene	5120	100	"	5000	ND	102	61.4-130			
Ethylbenzene	5180	100	"	5000	ND	104	61.4-133			
p,m-Xylene	10600	200	"	10000	ND	106	63.3-131			
o-Xylene	5100	100	"	5000	ND	102	63.3-131			
Total Xylenes	15700	100	"	15000	ND	105	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8220		"	8000		103	50-150			

Matrix Spike Dup (1843011-MSD1)			Source: P810102-01		Prepared: 10/23/18 Analyzed: 10/25/18 2					
E e	5190	100	ug/kg	5000	ND	104	54.3-133	2.06	20	
Toluene	5220	100	"	5000	ND	104	61.4-130	1.82	20	
Ethylbenzene	5290	100	"	5000	ND	106	61.4-133	2.17	20	
p,m-Xylene	10800	200	"	10000	ND	108	63.3-131	2.19	20	
o-Xylene	5210	100	"	5000	ND	104	63.3-131	2.13	20	
Total Xylenes	16000	100	"	15000	ND	107	63.3-131	2.17	20	
Surrogate: 4-Bromochlorobenzene-PID	8200		"	8000		103	50-150			

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 10/26/18 15:29
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1843011 - Purge and Trap EPA 5030A

Blank (1843011-BLK1)

Prepared: 10/23/18 | Analyzed: 10/25/18 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		"	8.00		97.3	50-150			

LCS (1843011-BS2)

Prepared: 10/23/18 | Analyzed: 10/25/18 2

Gasoline Range Organics (C6-C10)	51.9	20.0	mg/kg	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		"	8.00		99.5	50-150			

Matrix Spike (1843011-MS2)

Source: P810102-01

Prepared: 10/23/18 | Analyzed: 10/25/18 2

Gasoline Range Organics (C6-C10)	50.6	20.0	mg/kg	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		"	8.00		98.2	50-150			

Matrix Spike Dup (1843011-MSD2)

Source: P810102-01

Prepared: 10/23/18 | Analyzed: 10/26/18 0

Gasoline Range Organics (C6-C10)	50.0	20.0	mg/kg	50.0	ND	100	70-130	1.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		"	8.00		99.6	50-150			

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 10/26/18 15:29
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Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1843014 - DRO Extraction EPA 3570

BLK1 (1843014-BLK1)		Prepared: 10/24/18 0 Analyzed: 10/24/18 2								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	64.0		"	50.0		128	50-200			
LCS (1843014-BS1)		Prepared: 10/24/18 0 Analyzed: 10/24/18 2								
Range Organics (C10-C28)	454	25.0	mg/kg	500		90.8	38-132			
Surrogate: n-Nonane	62.3		"	50.0		125	50-200			
Matrix Spike (1843014-MS1)		Source: P810028-01		Prepared: 10/24/18 0 Analyzed: 10/25/18 0						
Diesel Range Organics (C10-C28)	596	25.0	mg/kg	500	198	79.6	38-132			
Surrogate: n-Nonane	63.5		"	50.0		127	50-200			
Matrix Spike Dup (1843014-MSD1)		Source: P810028-01		Prepared: 10/24/18 0 Analyzed: 10/25/18 0						
Diesel Range Organics (C10-C28)	575	25.0	mg/kg	500	198	75.5	38-132	3.47	20	
Surrogate: n-Nonane	63.7		"	50.0		127	50-200			

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 10/26/18 15:29
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Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1843021 - Anion Extraction EPA 300.0/9056A										
Blank (1843021-BLK1)				Prepared & Analyzed: 10/25/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1843021-BS1)				Prepared & Analyzed: 10/25/18 1						
Chloride	256	20.0	mg/kg	250		102	90-110			
Matrix Spike (1843021-MS1)				Prepared & Analyzed: 10/25/18 1						
Source: P810102-01										
Chloride	757	20.0	mg/kg	250	532	90.2	80-120			
Matrix Spike Dup (1843021-MSD1)				Prepared & Analyzed: 10/25/18 1						
Source: P810102-01										
Chloride	852	20.0	mg/kg	250	532	128	80-120	11.8	20	SPK1

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Merrion Oil & Gas
610 Reilly Ave.
Farmington NM, 87401

Project Name: Keeling #1
Project Number: 03048-0009
Project Manager: Philana Thompson

Reported:
10/26/18 15:29

Notes and Definitions

SPKI The spike recovery is outside of quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Project Information

Chain of Custody

Client: Mercer Oil & Gas
 Project: Reel. by #1
 Project Manager: Philana Thompson
 Address: 610 Reel
 City, State, Zip: Farmington, NM
 Phone: 505-486-1171
 Email: thompson.adm@mercer.oil&gas.com

Report Attention
 Report due by: _____
 Attention: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____

Lab Use Only
 Lab WO# P810102
 Job Number 03048-0009

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1
11 am	10/19/18	S	1	South bench	1	X	X	X			X	
10:17 am				North bench	2							
10:21 am				North shelf	3							
10:36 am				bottom #1 water site	4							
10:26 am				bottom #2	5							
10:49 am				west wall	6							
11 am				East wall	7							
10:43 am				North wall Bottom #3	8							
				Per Steve Callias 10/19/18 TC								

Additional Instructions:

Use ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Steve Callias

Samples requiring thermal preservation received packed in ice at an avg temp _____

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10/19/18</u>	Time <u>1530</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10/19/18</u>	Time <u>1530</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Received
 T1 _____ T2 _____
 AVG Temp °C 12.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - ambient

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Page 1 of 16



5796 US Highway 64, Farmington, NM 87401
 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx _____
 Ph (970) 259-0615 Fx _____ 362-1879

Analytical Report

Report Summary

Client: Merrion Oil & Gas
Chain Of Custody Number:
Samples Received: 11/19/2018 2:05:00PM
Job Number: 03048-0009
Work Order: P811056
Project Name/Location: Keeling #1

Report Reviewed By:



Date: 11/26/18

Walter Hinchman, Laboratory Director



Date: 11/26/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NWall #1	P811056-01A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
BW	P811056-02A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
BWS	P811056-03A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
BES	P811056-04A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
WWall #2	P811056-05A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
SWall	P811056-06A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
WWall #1	P811056-07A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
NWall #2	P811056-08A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
EWall	P811056-09A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.
BE	P811056-10A	Soil	11/19/18	11/19/18	Glass Jar, 4 oz.

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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**NWall #1
P811056-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1847017	11/20/18	11/20/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/20/18	EPA 8015D	
I Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %		50-150	1847017	11/20/18	11/20/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.4 %		50-200	1847016	11/20/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	272	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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BW
P811056-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate 4-Bromochlorobenzene-PID		100 %		50-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Surrogate 1-Chloro-4-fluorobenzene-FID		105 %		50-150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate n-Nonane		83.5 %		50-200	1847016	11/20/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	225	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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BWS
P811056-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gas Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Mid Range Organics (C10-C28)	37.0	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1847017	11/20/18	11/21/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.5 %		50-200	1847016	11/20/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	282	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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BES
P811056-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate 4-Bromochlorobenzene-PID		100 %		50-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Surrogate 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate n-Nonane		84.5 %		50-200	1847016	11/20/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	506	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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**WWall #2
P811056-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
1 Range Organics (C10-C28)	83.5	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %		50-150	1847017	11/20/18	11/21/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		86.5 %		50-200	1847016	11/20/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	330	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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**SWall
P811056-06 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate 4-Bromochlorobenzene-PID		100 %		50-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Surrogate 1-Chloro-4-fluorobenzene-FID		104 %		50-150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate n-Nonane		84.1 %		50-200	1847016	11/20/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	899	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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**WWall #1
P811056-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1847017	11/20/18	11/21/18	EPA 8021B	

Nonhalogenated Organics by 8015

Gas Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	38.6	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate: n-Nonane		84.9 %		50-200	1847016	11/20/18	11/20/18	EPA 8015D	

Anions by 300.0/9056A

Chloride	451	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	
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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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**NWall #2
P811056-08 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
<i>Surrogate 4-Bromochlorobenzene-PID</i>		101 %		50-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
<i>Surrogate 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1847017	11/20/18	11/21/18	EPA 8015D	
<i>Surrogate n-Nonane</i>		85.2 %		50-200	1847016	11/20/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	68.8	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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**EWall
P811056-09 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.9 %		50-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %		50-150	1847017	11/20/18	11/21/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		85.8 %		50-200	1847016	11/20/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	100	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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BE
P811056-10 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %		50-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847016	11/20/18	11/20/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate: n-Nonane		86.7 %		50-200	1847016	11/20/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	62.9	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1847017 - Purge and Trap EPA 5030A

Blank (1847017-BLK1)

Prepared: 11/20/18 0 Analyzed: 11/20/18 1

Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	7900		"	8000		98.8	50-150			

LCS (1847017-BS1)

Prepared: 11/20/18 0 Analyzed: 11/20/18 1

Benzene	5070	100	ug/kg	5000	ND	101	70-130			
Toluene	5180	100	"	5000	ND	104	70-130			
Ethylbenzene	5260	100	"	5000	ND	105	70-130			
p,m-Xylene	10800	200	"	10000	ND	108	70-130			
o-Xylene	5230	100	"	5000	ND	105	70-130			
Total Xylenes	16000	100	"	15000	ND	107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7980		"	8000		99.8	50-150			

Matrix Spike (1847017-MS1)

Source: P811050-01

Prepared: 11/20/18 0 Analyzed: 11/21/18 0

Benzene	5370	100	ug/kg	5000	ND	107	54.3-133			
Toluene	5500	100	"	5000	ND	110	61.4-130			
Ethylbenzene	5600	100	"	5000	ND	112	61.4-133			
p,m-Xylene	11400	200	"	10000	ND	114	63.3-131			
o-Xylene	5520	100	"	5000	ND	110	63.3-131			
Total Xylenes	17000	100	"	15000	ND	113	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8000		"	8000		100	50-150			

ix Spike Dup (1847017-MSD1)

Source: P811050-01

Prepared: 11/20/18 0 Analyzed: 11/20/18 2

ic	5270	100	ug/kg	5000	ND	105	54.3-133	1.89	20	
Toluene	5410	100	"	5000	ND	108	61.4-130	1.76	20	
Ethylbenzene	5510	100	"	5000	ND	110	61.4-133	1.54	20	
p,m-Xylene	11300	200	"	10000	ND	113	63.3-131	1.43	20	
o-Xylene	5470	100	"	5000	ND	109	63.3-131	0.982	20	
Total Xylenes	16800	100	"	15000	ND	112	63.3-131	1.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8130		"	8000		102	50-150			

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1847016 - DRO Extraction EPA 3570

Blank (1847016-BLK1)

Prepared: 11/20/18 0 Analyzed: 11/20/18 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	45.6		"	50.0		91.2	50-200			

LCS (1847016-BS1)

Prepared: 11/20/18 0 Analyzed: 11/20/18 1

Diesel Range Organics (C10-C28)	456	25.0	mg/kg	500		91.2	38-132			
Surrogate: n-Nonane	43.1		"	50.0		86.3	50-200			

Matrix Spike (1847016-MS1)

Source: P811052-01

Prepared: 11/20/18 0 Analyzed: 11/21/18 1

Diesel Range Organics (C10-C28)	461	25.0	mg/kg	500	ND	92.1	38-132			
Surrogate: n-Nonane	41.3		"	50.0		82.5	50-200			

Matrix Spike Dup (1847016-MSD1)

Source: P811052-01

Prepared: 11/20/18 0 Analyzed: 11/20/18 1

Diesel Range Organics (C10-C28)	462	25.0	mg/kg	500	ND	92.5	38-132	0.361	20	
Surrogate: n-Nonane	40.3		"	50.0		80.6	50-200			

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1847017 - Purge and Trap EPA 5030A

Blank (1847017-BLK1)				Prepared: 11/20/18 0 Analyzed: 11/20/18 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		"	8.00		106	50-150			
LCS (1847017-BS2)				Prepared: 11/20/18 0 Analyzed: 11/20/18 2						
Gasoline Range Organics (C6-C10)	53.2	20.0	mg/kg	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		"	8.00		106	50-150			
Matrix Spike (1847017-MS2)				Source: P811050-01 Prepared: 11/20/18 0 Analyzed: 11/20/18 2						
Gasoline Range Organics (C6-C10)	53.1	20.0	mg/kg	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		"	8.00		105	50-150			
Matrix Spike Dup (1847017-MSD2)				Source: P811050-01 Prepared: 11/20/18 0 Analyzed: 11/20/18 2						
Gasoline Range Organics (C6-C10)	45.0	20.0	mg/kg	50.0	ND	90.1	70-130	16.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		"	8.00		107	50-150			

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling #1 Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 11/26/18 15:27
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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1847023 - Anion Extraction EPA 300.0/9056A

Blank (1847023-BLK1)				Prepared: 11/21/18 0 Analyzed: 11/21/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1847023-BS1)				Prepared: 11/21/18 0 Analyzed: 11/21/18 1						
Chloride	258	20.0	mg/kg	250		103	90-110			
Matrix Spike (1847023-MS1)				Source: P811063-01 Prepared: 11/21/18 0 Analyzed: 11/21/18 1						
Chloride	259	20.0	mg/kg	250	ND	104	80-120			
Matrix Spike Dup (1847023-MSD1)				Source: P811063-01 Prepared: 11/21/18 0 Analyzed: 11/21/18 1						
Chloride	262	20.0	mg/kg	250	ND	105	80-120	1.20	20	

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Merrion Oil & Gas
610 Reilly Ave.
Farmington NM, 87401

Project Name: Keeling #1
Project Number: 03048-0009
Project Manager: Philana Thompson

Reported:
11/26/18 15:27

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.



Merrion Oil & Gas
610 Reilly Ave.
Farmington NM, 87401

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

Client: Merrion Oil & Gas
 Project: Keeling #1
 Sampler: Philana Thompson
 Phone: 5054861171
 Email(s): phompson@merrion-oil.com
 Project Manager: Philana Thompson

RUSH?
 1d
 3d

Lab Use Only		Analysis and Method				Lab Only
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number
Job Number						
P 811056						
03048-0009						

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Other	Lab Number	Correct Cont/Prsv (s) Y/N
N Wall #1	11/19/18	9:57	Soil		X	X	X	X		1	
BW	11/19/18	10:02								2	
BWS	11/19/18	10:05								3	
BES	11/19/18	10:08								4	
W Wall #2	11/19/18	10:35								5	
S Wall	11/19/18	10:25								6	
W Wall #1	11/19/18	10:30								7	
N Wall #2	11/19/18	10:40								8	
E Wall	11/19/18	10:19								9	
BE	11/19/18	10:00	V							10	

Relinquished by: (Signature) <i>Philana Thompson</i>	Date 11/19/18	Time 14:05	Received by: (Signature) <i>Jessica C. [Signature]</i>	Date 11/19/18	Time 14:05	Lab Use Only
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice Y / N
						T1 _____ T2 _____ T3 _____
						AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

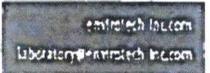
Sample(s) dropped off after hours to a secure drop off area. Chain of Custody Notes/Billing Info:

Page 18 of 18



5796 US Highway 64, Farmington, MA 07401
 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fr (505) 632-1865
 Ph (970) 259-0615 Fr (800) 367-1879



Analytical Report

Report Summary

Client: Merrion Oil & Gas
Chain Of Custody Number:
Samples Received: 12/11/2018 10:50:00AM
Job Number: 03048-0009
Work Order: P812026
Project Name/Location: Keeling South

Report Reviewed By:



Date: 12/14/18

Walter Hinchman, Laboratory Director



Date: 12/14/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling South Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 12/14/18 11:37
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
#1	P812026-01A	Soil	12/11/18	12/11/18	Glass Jar, 4 oz.
#2	P812026-02A	Soil	12/11/18	12/11/18	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

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Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com

Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling South Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 12/14/18 11:37
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#1

P812026-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Anions by 300.0/9056A

Chloride	267	20.0	mg/kg	1	1850014	12/11/18	12/12/18	EPA 300.0/9056A	
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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling South Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 12/14/18 11:37
--	--	-----------------------------

#2

P812026-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	328	20.0	mg/kg	1	1850014	12/11/18	12/12/18	EPA 300.0/9056A	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling South Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 12/14/18 11:37
--	--	-----------------------------

Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1850014 - Anion Extraction EPA 300.0/9056A

Blank (1850014-BLK1)				Prepared: 12/11/18 1 Analyzed: 12/13/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1850014-BS1)				Prepared: 12/11/18 1 Analyzed: 12/12/18 1						
Chloride	257	20.0	mg/kg	250		103	90-110			
Matrix Spike (1850014-MS1)				Source: P812015-01 Prepared: 12/11/18 1 Analyzed: 12/13/18 1						
Chloride	285	20.0	mg/kg	250	29.4	102	80-120			
Matrix Spike Dup (1850014-MSD1)				Source: P812015-01 Prepared: 12/11/18 1 Analyzed: 12/12/18 2						
Chloride	270	20.0	mg/kg	250	29.4	96.1	80-120	5.64	20	

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Merrion Oil & Gas 610 Reilly Ave. Farmington NM, 87401	Project Name: Keeling South Project Number: 03048-0009 Project Manager: Philana Thompson	Reported: 12/14/18 11:37
--	--	-----------------------------

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Client: Merrion Oil & Gas Corporation
 Project: Keeling South
 Sampler: Shacie/Philana
 Phone: 505-486-1171
 Email(s): pthompson@merrion.bz
 Project Manager: Philana Thompson

RUSH?
 1d
 3d

Lab Use Only		Analysis and Method				lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Cont/Prsv (S) Y/N
Job Number							
P 812026							
03048-0009							

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYP/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Cont/Prsv (S) Y/N
#1	12/11/18	9:30	S	1-4oz				X	1	
#2	12/11/18	9:35	S	1-4oz				X	2	

Relinquished by: (Signature) <i>[Signature]</i>	Date 12/11/18	Time 10:50	Received by: (Signature) <i>[Signature]</i>	Date 12/11/18	Time 10:50	Lab Use Only				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice <input checked="" type="checkbox"/> / N				
						T1	T2	T3		
						AVG Temp °C <u>4.0</u>				

Sample Matrix: S - Soil, sd - Solid, Sg - Sludge, A - Aqueous, O - Other S
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

*Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Keeling vis ice in cooler

Page 7 of 7



5796 US Highway 64, Farmington, NM 87401
 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865
 Ph (970) 259-0615 Fx (800) 362-1879





envirotech

Bill of Lading

MANIFEST # 61978
GENERATOR Merrion oil
POINT OF ORIGIN Keeling #1
TRANSPORTER 3 D Service
DATE 10-10-18 JOB # D3648-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLS), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Contains 3 rows of shipment data.

RESULTS section with sub-tables for CHLORIDE TEST, PAINT FILTER TEST, LANDFARM EMPLOYEE (signed Gary Robinson), and NOTES.

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatu required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

Envirotech Inc.
 5796 Hwy 64
 Farmington, NM 87401
 Fed Tax ID 85-0394202
 Phone: 505-632-0615
 Fax: 505-632-1865

envirotech

Invoice

Invoice Number: 45839

Project/Job: 03048-0056-2 LF

DATE: 10/24/2018

Project Manager: EWL

Keeling #1

Landfarm Acceptance of Contaminated Soil

Ordered by: Steven Calkins

To:

Merrion Oil & Gas
 610 Reilly Ave
 Farmington, NM 87401

Service Date	Units	U/M	Description	Rate	Total
10/16/2018	20	CY	BOL 62049 Soil Remediation at Permitted Facility		
10/16/2018	1	Ea	Paint Filter Test		
10/16/2018	1	Ea	Chloride Test		

This may not be the final bill - if charges are received after this invoice has been mailed, you will receive a separate invoice for those costs.

TERMS: Net 30 Days from Invoice Date. Interest Charged at the Rate of 1.5% PER MONTH or 18% PER ANNUM on Accounts Not Paid Within 30 Days. PLEASE PAY FROM THIS INVOICE.

Subtotal [REDACTED]

Sales Tax (6.5625%) [REDACTED]

Amount due this Invoice [REDACTED]

Envirotech Inc.
 5796 Hwy 64
 Farmington, NM 87401
 Fed Tax ID 85-0394202
 Phone: 505-632-0615
 Fax: 505-632-1865

envirotech

Invoice

Invoice Number: 45844

Project/Job: 03048-0056-2 LF

DATE: 10/24/2018

Project Manager: EWL

Keeling #1
 Landfarm Acceptance of Contaminated Soil
 Ordered by: Steven Calkins

To:

Merrion Oil & Gas
 610 Reilly Ave
 Farmington, NM 87401

Service Date	Units	U/M	Description	Rate	Total
10/17/2018	100	CY	BOL 62060 Soil Remediation at Permitted Facility		
10/17/2018	2	Ea	Paint Filter Test		
10/17/2018	2	Ea	Chloride Test		
10/17/2018	20	CY	BOL 62067 Soil Remediation at Permitted Facility		
10/17/2018	1	Ea	Paint Filter Test		
10/17/2018	1	Ea	Chloride Test		

This may not be the final bill - if charges are received after this invoice has been mailed, you will receive a separate invoice for those costs.

TERMS: Net 30 Days from Invoice Date. Interest Charged at the Rate of 1.5% PER MONTH or 18% PER ANNUM on Accounts Not Paid Within 30 Days.
PLEASE PAY FROM THIS INVOICE.

Subtotal	
Sales Tax (6.5625%)	

Amount due this Invoice

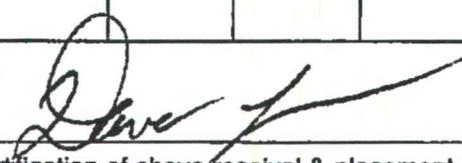


Bill of Lading

MANIFEST # **62060**
 GENERATOR ~~XXXXXXXX~~ **oil & Gas**
 POINT OF ORIGIN **Keeling #1**
 TRANSPORTER **DePera**
 DATE **10-17-18** JOB # **03048-0056**

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII-5	CONT Soil	B-36	20	-	-	106	10:00	Miranda Obregon
2	"	"	B-36	20	-	-	106	11:45	Miranda Obregon
3	"	"	B-36	20	-	-	106	13:30	Miranda Obregon
4	"	"	B-36	20	-	-	106	15:10	Miranda Obregon
5	"	"	B-36	20	-	-	106	17:10	Miranda Obregon
				100					

RESULTS		LANDFARM EMPLOYEE	 Certification of above receipt & placement	NOTES
270 336 CHLORIDE TEST	<input checked="" type="checkbox"/>			

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

Envirotech Inc.
 5796 Hwy 64
 Farmington, NM 87401
 Fed Tax ID 85-0394202
 Phone: 505-632-0615
 Fax: 505-632-1865

envirotech

Invoice

Invoice Number: 45865
 Project/Job: 03048-0056-2 LF
 DATE: 10/26/2018
 Project Manager: EWL
 Keeling #1
 Landfarm Acceptance of Contaminated Soil
 Ordered by: Steven Calkins

To:

Merrion Oil & Gas
 610 Reilly Ave
 Farmington, NM 87401

Service Date	Units	U/M	Description	Rate	Total
10/18/2018	127	CY	BOL 62080 Soil Remediation at Permitted Facility		
10/18/2018	2	Ea	Paint Filter Test		
10/18/2018	2	Ea	Chloride Test		
10/18/2018	40	CY	BOL 62088 Soil Remediation at Permitted Facility		
10/18/2018	1	Ea	Paint Filter Test		
10/18/2018	1	Ea	Chloride Test		
10/19/2018	105	CY	BOL 62099 Soil Remediation at Permitted Facility		
10/19/2018	2	Ea	Paint Filter Test		
10/19/2018	2	Ea	Chloride Test		
10/19/2018	105	CY	BOL 62100 Soil Remediation at Permitted Facility		
10/19/2018	2	Ea	Paint Filter Test		
10/19/2018	2	Ea	Chloride Test		

This may not be the final bill - if charges are received after this invoice has been mailed, you will receive a separate invoice for those costs.

TERMS: Net 30 Days from Invoice Date. Interest Charged at the Rate of 1.5% PER MONTH or 18% PER ANNUM on Accounts Not Paid Within 30 Days. PLEASE PAY FROM THIS INVOICE.

Subtotal	
Sales Tax (6.5625%)	

Amount due this Invoice



envirotech

Bill of Lading

MANIFEST # 62080
GENERATOR MERRION OIL & GAS
POINT OF ORIGIN Keelings #1
TRANSPORTER De Herren
DATE 10-18-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFTI-5	Cont Spil	B-37	22	-	-	106	9:20	<i>[Signature]</i>
2	"	"	B-37	21	-	-	106	11:25	<i>[Signature]</i>
3	"	"	B-37	21	-	-	106	13:25	<i>[Signature]</i>
4	"	"	B-37	21	-	-	106	14:11	<i>[Signature]</i>
5	"	"	B-37	21	-	-	106	17:06	<i>[Signature]</i>
6	"	"	B-37	21	-	-	106	19:10	<i>[Signature]</i>
				107					

RESULTS	LANDFARM EMPLOYEE	<i>[Signature]</i>	NOTES
210/210 PERIODIC TEST 1/1			
PAINT FILTER TEST 2	Certification of above receipt & placement		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

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Bill of Lading

MANIFEST # 62088

GENERATOR MERRION F GAS

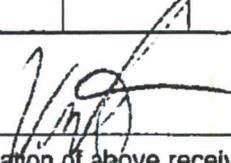
POINT OF ORIGIN KEELING #1

TRANSPORTER L&L

DATE 10-18-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII5	Cont Soil	B-37	20	-	-	23	16:44	_____
2	LFII5	Cont Soil	B37	20	-	-	23	18:30	_____
				40					

RESULTS		LANDFARM EMPLOYEE	 Certification of above receipt & placement	NOTES
210	CHLORIDE TEST 1			
	PAINT FILTER TEST 1			

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

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Bill of Lading

MANIFEST # 62099
GENERATOR MERRION OIL & GAS
POINT OF ORIGIN Keelings #1
TRANSPORTER DENHEA
DATE 10-19-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLs), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Includes handwritten entries for 5 loads of LFII-5 soil and a results section for chloride and paint filter tests.

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

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Envirotech Inc.
 5796 Hwy 64
 Farmington, NM 87401
 Fed Tax ID 85-0394202
 Phone: 505-632-0615
 Fax: 505-632-1865

envirotech

Invoice Number: 46047
 Project/Job: 03048-0056-2 LF
 DATE: 11/13/2018
 Project Manager: EWL
 Keeling #1
 Landfarm Acceptance of Contaminated Soil
 Ordered by: Steven Calkins

Invoice

To:

Merrion Oil & Gas
 610 Reilly Ave
 Farmington, NM 87401

Service Date	Units	U/M	Description	Rate	Total
11/7/2018	18	CY	BOL 62307 Clean, Virgin Backfill		
11/7/2018	18	CY	BOL 62308 Clean, Virgin Backfill		
11/7/2018	18	CY	BOL 62309 Soil Remediation at Permitted Facility		
11/7/2018	1	Ea	Chloride Test		
11/7/2018	1	Ea	Paint Filter Test		
11/7/2018	20	CY	BOL 62310 Soil Remediation at Permitted Facility		
11/7/2018	1	Ea	Chloride Test		
11/7/2018	1	Ea	Paint Filter Test		

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TERMS: Net 30 Days from Invoice Date. Interest Charged at the Rate of 1.5% PER MONTH or 18% PER ANNUM on Accounts Not Paid Within 30 Days. PLEASE PAY FROM THIS INVOICE.

Subtotal	
Sales Tax (6.5625%)	

Amount due this Invoice



envirotech

Bill of Lading

MANIFEST # **62307**
 GENERATOR E-tech
 POINT OF ORIGIN LANDFARM
 TRANSPORTER GREAZER
 DATE 11/7/18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	3D SERVICES Merrion Oil Keeling #1	VIRGIN SOIL	—	18 <hr/> 18	—	—	002	1405	<i>Clay Swanson</i>

RESULTS		LANDFARM EMPLOYEE <i>Gary Robinson</i>	NOTES
CHLORIDE TEST	/		
PAINT FILTER TEST	/	Certification of above receipt & placement	

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



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Bill of Lading

MANIFEST # 62308
GENERATOR E-tech
POINT OF ORIGIN Landfarm
TRANSPORTER LEL
DATE 11/7/18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	3D-SERVICES	VIRGIN SOIL	-	18	-	-	23	1425	
	MERRION OIL			18					
	Keeling #1								

RESULTS		LANDFARM EMPLOYEE	<u>Cory Robinson</u> ^{EL}	NOTES
<input checked="" type="checkbox"/>	CHLORIDE TEST			
<input checked="" type="checkbox"/>	PAINT FILTER TEST			

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

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Bill of Lading

MANIFEST # 62309
GENERATOR Merrion Oil
POINT OF ORIGIN Keeling #1
TRANSPORTER Swazee
DATE 11.7.18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLs), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Row 1: 1, LEJ.S, Conts. L, C35, 18, -, -, 002, 1626, Clay.

RESULTS: CHLORIDE TEST <2.70, PAINT FILTER TEST. LANDFARM EMPLOYEE: Gary Robinson EL. NOTES: Certification of above receipt & placement.

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **62310**
 GENERATOR Merrion Oil
 POINT OF ORIGIN Keeling #1
 TRANSPORTER L & L Oil Field
 DATE 11-7-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFTI-5	CONT SOIL	C35	20	-	-	23	1640	
				20					

RESULTS		LANDFARM EMPLOYEE	 Certification of above receipt & placement	NOTES
< 270	CHLORIDE TEST			
	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

Envirotech Inc.
 5796 Hwy 64
 Farmington, NM 87401
 Fed Tax ID 85-0394202
 Phone: 505-632-0615
 Fax: 505-632-1865

envirotech

Invoice Number: 46053

Project/Job: 03048-0056-2 LF

DATE: 11/14/2018

Project Manager: EWL

Keeling #1

Landfarm Acceptance of Contaminated Soil
 Ordered by: Steven Calkins

Invoice

To:

Merrion Oil & Gas
 610 Reilly Ave
 Farmington, NM 87401

Service Date	Units	U/M	Description	Rate	Total
11/8/2018	18	CY	BOL 62318 Clean, Virgin Backfill		
11/8/2018	36	CY	BOL 62319 Clean, Virgin Backfill		
11/8/2018	18	CY	BOL 62320 Clean, Virgin Backfill		
11/8/2018	36	CY	BOL 62321 Soil Remediation at Permitted Facility		
11/8/2018	1	Ea	Paint Filter Test		
11/8/2018	1	Ea	Chloride Test		
11/8/2018	18	CY	BOL 62322 Soil Remediation at Permitted Facility		
11/8/2018	1	Ea	Paint Filter Test		
11/8/2018	1	Ea	Chloride Test		
11/8/2018	18	CY	BOL 62323 Soil Remediation at Permitted Facility		
11/8/2018	1	Ea	Paint Filter Test		
11/8/2018	1	Ea	Chloride Test		

This may not be the final bill - if charges are received after this invoice has been mailed, you will receive a separate invoice for those costs.

TERMS: Net 30 Days from Invoice Date. Interest Charged at the Rate of 1.5% PER MONTH or 18% PER ANNUM on Accounts Not Paid Within 30 Days. PLEASE PAY FROM THIS INVOICE.

Subtotal	
Sales Tax (6.5625%)	

Amount due this Invoice



envirotech

Bill of Lading

MANIFEST # 62318
GENERATOR E.tech
POINT OF ORIGIN 19nd Farm
TRANSPORTER L & L
DATE 11-8-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLs), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Row 1: 1, Merrion Oil Keeling #1, Virgin Soil, -, 20, -, 23, 1120.

RESULTS section with checkboxes for CHLORIDE TEST and PAINT FILTER TEST. Includes LANDFARM EMPLOYEE signature: Gary Robinson EL. NOTES section.

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

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Bill of Lading

MANIFEST # 62319
GENERATOR E.tech
POINT OF ORIGIN Land Farm
TRANSPORTER Rosenbaum
DATE 11-8-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLs), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Rows include: 1. Keeling #1, Virgin Soil, 20 YDS, 112 TRK, 1235 TIME; 2. ' ' ' ' ' ' 20 YDS, 116 TRK, 1235 TIME; 3. Void 'this line', Void, 36 YDS, 116 TRK, 1452 TIME.

RESULTS section with checkboxes for CHLORIDE TEST and PAINT FILTER TEST. Includes LANDFARM EMPLOYEE signature: Gary Robinson EL and NOTES: Void Line 3.

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



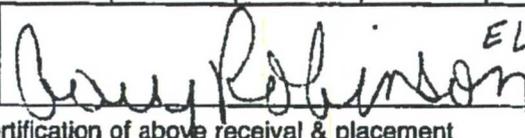
envirotech

Bill of Lading

MANIFEST # 62320
GENERATOR E Tech
POINT OF ORIGIN Land Farm
TRANSPORTER Swazea
DATE 11-8-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	Merrion Oil Keeling #1	Virgin Soil	-	18	-	-	002	1300	Clay
				18					

RESULTS		LANDFARM EMPLOYEE	 Certification of above receipt & placement	NOTES
<input checked="" type="checkbox"/>	CHLORIDE TEST			
<input checked="" type="checkbox"/>	PAINT FILTER TEST			

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



envirotech

Bill of Lading

MANIFEST # **62321**
 GENERATOR MORRISON OIL
 POINT OF ORIGIN Keeliny #1
 TRANSPORTER Rosenbaum
 DATE 11-8-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII5	Cont Soil	D-35	18	-	-	116	1452	<i>[Signature]</i>
2	LFII5	" "	D-35	18	-	-	112	1512	<i>[Signature]</i> # Bkly Dng 112
				<u>36</u>					
RESULTS			LANDFARM EMPLOYEE			NOTES			
< 270	CHLORIDE TEST	1	<i>Gary Robinson</i> EL						
	PAINT FILTER TEST	1	Certification of above receipt & placement						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

Envirotech Inc.
 5796 Hwy 64
 Farmington, NM 87401
 Fed Tax ID 85-0394202
 Phone: 505-632-0615
 Fax: 505-632-1865

envirotech

Invoice Number: 46062
 Project/Job: 03048-0056-2 LF
 DATE: 11/15/2018
 Project Manager: EWL
 Keeling #1
 Landfarm Acceptance of Contaminated Soil
 Ordered by: Steven Calkins

Invoice

To:

Merrion Oil & Gas
 610 Reilly Ave
 Farmington, NM 87401

Service Date	Units	U/M	Description	Rate	Total
11/9/2018	54	CY	BOL 62326 Clean, Virgin Backfill		
11/9/2018	54	CY	BOL 62329 Clean, Virgin Backfill		
11/9/2018	90	CY	BOL 62330 Clean, Virgin Backfill		
11/9/2018	54	CY	BOL 62333 Soil Remediation at Permitted Facility		
11/9/2018	1	Ea	Chloride Test		
11/9/2018	1	Ea	Paint Filter Test		
11/9/2018	54	CY	BOL 62334 Soil Remediation at Permitted Facility		
11/9/2018	1	Ea	Chloride Test		
11/9/2018	1	Ea	Paint Filter Test		
11/9/2018	90	CY	BOL 62335 Soil Remediation at Permitted Facility		
11/9/2018	2	Ea	Paint Filter Test		
11/9/2018	2	Ea	Chloride Test		

This may not be the final bill - if charges are received after this invoice has been mailed, you will receive a separate invoice for those costs.

TERMS: Net 30 Days from Invoice Date. Interest Charged at the Rate of 1.5% PER MONTH or 18% PER ANNUM on Accounts Not Paid Within 30 Days. PLEASE PAY FROM THIS INVOICE.

Subtotal [REDACTED]

Sales Tax (6.5625%) [REDACTED]

Amount due this Invoice [REDACTED]



envirotech

Bill of Lading

MA EST # 62326
GENERATOR ENVIROTECH
POINT OF ORIGIN LANDFARM
TRANSPORTER SWEAZEA
DATE 11/9/18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLs), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Includes handwritten entries for loads 1, 2, and 3.

RESULTS section with checkboxes for CHLORIDE TEST and PAINT FILTER TEST, and a signature area for LANDFARM EMPLOYEE.

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



envirotech

Bill of Lading

MANIFEST # 62329
GENERATOR ENVIROTECH
POINT OF ORIGIN LAND FARM
TRANSPORTER LFL
DATE 11/9/18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLS), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Contains 3 rows of shipment data and a summary row for YDS (54).

RESULTS section with checkboxes for CHLORIDE TEST and PAINT FILTER TEST. Includes a signature area with 'Add' and 'EL' and a certification statement: 'Certification of above receipt & placement'.

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **62330**
 GENERATOR ENVIROTECH
 POINT OF ORIGIN LANDFARM
 TRANSPORTER ROSENBAUM
 DATE 11/9/18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	MERRION OIL & GAS KEELING FED #1	VIRGIN FILL DIPT	-	18	-	-	116	0820	<i>[Signature]</i>
2	MERRION OIL & GAS KEELING FED #1	" "	-	18	-	-	112	0830	<i>[Signature] #112</i>
3	" "	" "	-	18	-	-	116	1034	<i>[Signature] #112</i>
4	" "	" "	-	18	-	-	112	1114	<i>[Signature] #112</i>
5	" "	" "	-	18	-	-	116	1246	<i>[Signature]</i>
				90					

RESULTS		LANDFARM EMPLOYEE <i>[Signature]</i>	EL	NOTES
CHLORIDE TEST	<input checked="" type="checkbox"/>			
PAINT FILTER TEST	<input checked="" type="checkbox"/>	Certification of above receipt & placement		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

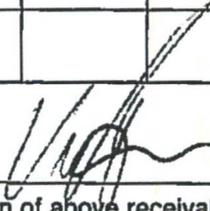
Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **62333**
 GENERATOR Marrison Oil & Gas
 POINT OF ORIGIN Keeling #1
 TRANSPORTER Sweaza
 DATE 11-9-13 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY				
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE	
1	LF II 5	Cont Soil	A35	18			002	0958	Clay	
2	" "	" "	"	18			002	1207	Clay	
3	" "	" "	"	18			002	1427	Clay	
				<u>54</u>						
RESULTS		LANDFARM EMPLOYEE				EL	NOTES			
<270	CHLORIDE TEST									
	PAINT FILTER TEST	1	Certification of above receipt & placement							

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



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Bill of Lading

MANIFEST # 62334
GENERATOR Merrion Oil & Gas
POINT OF ORIGIN Keeling #1
TRANSPORTER L&L
DATE 11-9-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II 5	cont soil	A35	18			23	1003	
2	" "	" "	"	18			23	1208	
3	" "	" "	"	18			23	1432	
				54					

RESULTS		LANDFARM EMPLOYEE	 EL	NOTES
< 270	CHLORIDE TEST			
	PAINT FILTER TEST	Certification of above receipt & placement		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



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Bill of Lading

MANIFEST # **62335**GENERATOR Marrison O. of GASPOINT OF ORIGIN Keeling #1TRANSPORTER RosenbaumDATE 11-9-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II 5	cont soil	A35	18			116	1034	<i>Paul Adgett</i>
2	" "	cont soil	"	18			112	1114	<i>Jimmy Bellydunn #112</i>
3	" "	" "	"	18			116	1246	<i>Paul Adgett</i>
4	" "	" "	"	18			112	1346	<i>Jimmy Bellydunn #112</i>
5	" "	" "	"	18			116	1511	<i>Paul Adgett</i>
				<u>90</u>					

RESULTS		LANDFARM EMPLOYEE	<i>[Signature]</i>	EL	NOTES
<270	CHLORIDE TEST				
	PAINT FILTER TEST	2	Certification of above receipt & placement		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

Envirotech Inc.
 5796 Hwy 64
 Farmington, NM 87401
 Fed Tax ID 85-0394202
 Phone: 505-632-0615
 Fax: 505-632-1865

envirotech

Invoice

Invoice Number: 46101

Project/Job: 03048-0056-2 LF

DATE: 11/16/2018

Project Manager: EWL

Keeling #1

Landfarm Acceptance of Contaminated Soil

Ordered by: Steven Calkins

To:

Merrion Oil & Gas
 610 Reilly Ave
 Farmington, NM 87401

Service Date	Units	U/M	Description	Rate	Total
11/13/2018	36	CY	BOL 62351 Clean, Virgin Backfill		
11/13/2018	139	CY	BOL 62352 Soil Remediation at Permitted Facility		
11/13/2018	61	CY	Soil Remediation at Permitted Facility > 1000 CY		
11/13/2018	3	Ea	Paint Filter Test		
11/13/2018	3	Ea	Chloride Test		
11/13/2018	40	CY	BOL 62353 Clean, Virgin Backfill		
11/13/2018	36	CY	BOL 62354 Soil Remediation at Permitted Facility > 1000 CY		
11/13/2018	1	Ea	Paint Filter Test		
11/13/2018	1	Ea	Chloride Test		
11/13/2018	20	CY	BOL 62356 Soil Remediation at Permitted Facility > 1000 CY		
11/13/2018	1	Ea	Paint Filter Test		
11/13/2018	1	Ea	Chloride Test		

This may not be the final bill - if charges are received after this invoice has been mailed, you will receive a separate invoice for those costs.

TERMS: Net 30 Days from Invoice Date. Interest Charged at the Rate of 1.5% PER MONTH or 18% PER ANNUM on Accounts Not Paid Within 30 Days.
PLEASE PAY FROM THIS INVOICE.

Subtotal	
Sales Tax (6.5625%)	

Amount due this Invoice



envirotech

Bill of Lading

MANIFEST # 62351
GENERATOR E Tech
POINT OF ORIGIN land farm
TRANSPORTER SWORZA
DATE 11-13-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	Merrion Oil Keeling #1	Virgin Soil	-	18	-	-	002	1140	Clay
2	" "	" "	-	18	-	-	002	1410	Clay
				<u>36</u>					

RESULTS		LANDFARM EMPLOYEE	<u>Gary Robinson</u> ^{EL} Certification of above receipt & placement	NOTES
CHLORIDE TEST	/			
PAINT FILTER TEST	/			

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



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Bill of Lading

MANIFEST # 62352
GENERATOR MARRION OIL
POINT OF ORIGIN Keeling #1
TRANSPORTER C&E
DATE 11-13-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLS), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Contains 10 rows of shipment data.

RESULTS section with sub-tables for CHLORIDE TEST, PAINT FILTER TEST, LANDFARM EMPLOYEE (Cory Robinson), and NOTES.

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **62353**
 GENERATOR C. Tech
 POINT OF ORIGIN 10nd Farm
 TRANSPORTER C&E
 DATE 11-13-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	Merrion Oil Keeling #1	Virgin soil	-	20	-	-	767	1306	<i>[Signature]</i>
2	" "	" "	-	20	-	-	769	1312	<i>[Signature]</i>
	VOID	VOID		20	VOID		38		
				2	-	-	4		
				<u>40</u>					

RESULTS		LANDFARM EMPLOYEE	<i>Cary Roling EL</i> Certification of above receipt & placement	NOTES
<input checked="" type="checkbox"/>	CHLORIDE TEST			<i>VOID line 3</i>
<input checked="" type="checkbox"/>	PAINT FILTER TEST			

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



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Bill of Lading

MAI EST # 62354
GENERATOR Morrison Oil
POINT OF ORIGIN Keeling #1
TRANSPORTER Swenzen
DATE 11-13-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII5	Cont Soil	C35	18	-	-	002	1410	Clay
2	"	" "	C35	18	-	-	002	1625	Clay
				36					

RESULTS		LANDFARM EMPLOYEE	<u>Bay Kalinen</u> ^{EL}	NOTES
<270	CHLORIDE TEST 1			
	PAINT FILTER TEST 1	Certification of above receipt & placement		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

Envirotech Inc.
 5796 Hwy 64
 Farmington, NM 87401
 Fed Tax ID 85-0394202
 Phone: 505-632-0615
 Fax: 505-632-1865

envirotech

Invoice

Invoice Number: 46121

Project/Job: 03048-0056-2 LF

DATE: 11/20/2018

Project Manager: EWL

Keeling #1

Landfarm Acceptance of Contaminated Soil
 Ordered by: Steven Calkins

To:

Merrion Oil & Gas
 610 Reilly Ave
 Farmington, NM 87401

Service Date	Units	U/M	Description	Rate	Total
11/14/2018	20	CY	BOL 62357 Soil Remediation at Permitted Facility > 1000 CY		
11/14/2018	1	Ea	Paint Filter Test		
11/14/2018	1	Ea	Chloride Test		

This may not be the final bill - if charges are received after this invoice has been mailed, you will receive a separate invoice for those costs.

TERMS: Net 30 Days from Invoice Date. Interest Charged at the Rate of 1.5% PER MONTH or 18% PER ANNUM on Accounts Not Paid Within 30 Days. PLEASE PAY FROM THIS INVOICE.

Subtotal [REDACTED]

Sales Tax (6.5625%) [REDACTED]

Amount due this Invoice [REDACTED]



envirotech

Bill of Lading

MANIFEST # 62357
GENERATOR Mercur Oil
POINT OF ORIGIN Keeling #1
TRANSPORTER CFE
DATE 11-14-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLS), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Row 1: 1, LFDS, Cont Soil, D35, 20, -, 769, 845, [Signature]

RESULTS: CHLORIDE TEST 1, PAINT FILTER TEST 1. LANDFARM EMPLOYEE: Gary Robinson EL. NOTES: Certification of above receipt & placement.

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

Envirotech Inc.
 5796 Hwy 64
 Farmington, NM 87401
 Fed Tax ID 85-0394202
 Phone: 505-632-0615
 Fax: 505-632-1865

envirotech

Invoice

Invoice Number: 46164

Project/Job: 03048-0056-2 LF

DATE: 11/28/2018

Project Manager: EWL

Keeling #1

Landfarm Acceptance of Contaminated Soil

Ordered by: Steven Calkins

To:

Merrion Oil & Gas
 610 Reilly Ave
 Farmington, NM 87401

Service Date	Units	U/M	Description	Rate	Total
11/19/2018	36	CY	BOL 62438 Soil Remediation at Permitted Facility > 1000 CY		
11/19/2018	1	Ea	Paint Filter Test		
11/19/2018	1	Ea	Chloride Test		
11/19/2018	40	CY	BOL 62439 Soil Remediation at Permitted Facility > 1000 CY		
11/19/2018	1	Ea	Paint Filter Test		
11/19/2018	1	Ea	Chloride Test		
11/19/2018	12	CY	BOL 62440 Soil Remediation at Permitted Facility > 1000 CY		
11/19/2018	1	Ea	Paint Filter Test		
11/19/2018	1	Ea	Chloride Test		
11/20/2018	40	CY	BOL 62452 Soil Remediation at Permitted Facility > 1000 CY		
11/20/2018	1	Ea	Paint Filter Test		
11/20/2018	1	Ea	Chloride Test		
11/20/2018	24	CY	BOL 62457 Soil Remediation at Permitted Facility > 1000 CY		
11/20/2018	1	Ea	Paint Filter Test		
11/20/2018	1	Ea	Chloride Test		

This may not be the final bill - if charges are received after this invoice has been mailed, you will receive a separate invoice for those costs.

TERMS: Net 30 Days from Invoice Date. Interest Charged at the Rate of 1.5% PER MONTH or 18% PER ANNUM on Accounts Not Paid Within 30 Days. PLEASE PAY FROM THIS INVOICE.

Subtotal [REDACTED]

Sales Tax (6.5625%) [REDACTED]

Amount due this Invoice [REDACTED]



Bill of Lading

MA EST # **62438**
 GENERATOR Merrion Oil
 POINT OF ORIGIN Keeling #1
 TRANSPORTER Sweazea
 DATE 11-19-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF115	CON'T SOIL	G35	18	-	-	002	1500	Alay
1	"	" "	G35	18	-	-	002	1820	Alay
				<u>36</u>					
RESULTS		LANDFARM EMPLOYEE	Gory Robinson ^{EL}			NOTES			
< 2.0	CHLORIDE TEST								
	PAINT FILTER TEST	1	Certification of above receipt & placement						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



envirotech

Bill of Lading

MANIFEST # 62439
GENERATOR Merriam Oil
POINT OF ORIGIN Keating #1
TRANSPORTER Sierra Oil
DATE 11-19-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II-5	CONT SO-L	G35	20	-	-	0028	1505	<i>Cambridge</i>
2	"	" "	G35	20	-	-	28	1810	<i>Cambridge</i>
				40					

RESULTS		LANDFARM EMPLOYEE	<i>Cambridge</i> Certification of above receipt & placement	NOTES
<270	CHLORIDE TEST 1			
	PAINT FILTER TEST 1			

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



envirotech

Bill of Lading

MANIFEST # 62440
GENERATOR morrison oil
POINT OF ORIGIN Keeling #1
TRANSPORTER 3D-service
DATE 11-19-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

Table with columns: LOAD NO., COMPLETE DESCRIPTION OF SHIPMENT (DESTINATION, MATERIAL, GRID, YDS, BBLs), TRANSPORTING COMPANY (TKT#, TRK#, TIME, DRIVER SIGNATURE). Row 1: 1, LEI 5, CONT SOIL, G35, 12, -, -, 22, 1820, [Signature]

RESULTS: CHLORIDE TEST <270, PAINT FILTER TEST 1. LANDFARM EMPLOYEE: Gauy Robinson EL. NOTES: Certification of above receipt & placement.

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy



Bill of Lading

MANIFEST # **62452**
 GENERATOR Merrian Oil
 POINT OF ORIGIN Keeling #1
 TRANSPORTER Swezea
 DATE 11-20-18 JOB # B3048-0056

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LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY				
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE	
1	LFII 5	CON + SOIL	C35	20	-	-	002	1400	Coay	
2	LFII 5	" "	C35	20	-	-	002	1755	Coay	
				40						
RESULTS		LANDFARM EMPLOYEE		<i>Coay Robinson</i> ^{EL} Certification of above receipt & placement			NOTES			
< 270	CHLORIDE TEST	1								
	PAINT FILTER TEST	1								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

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envirotech

Bill of Lading

MANIFEST # **62457**
 GENERATOR Merrion Oil
 POINT OF ORIGIN Keeliny #1
 TRANSPORTER 3D Service
 DATE 11-20-18 JOB # 03048-0056

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLs	TKT#	TRK#	TIME	DRIVER-SIGNATURE
1	LF II 5-	cont soil	F35	12	-	-	22	1522	
2	11	" "	F35	12	-	-	22	1810	
				24					

RESULTS		LANDFARM EMPLOYEE	NOTES <i>EL</i> <i>Cory Robinson</i> Certification of above receipt & placement
< 270	CHLORIDE TEST 1		
	PAINT FILTER TEST 1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

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