

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-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) nV/F1829629660
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 1:05 PM 9/26/2018	API# (if applicable) 30-045-05299

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

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____) JAN 18 2019

Nature and Volume of Release

DISTRICT III

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 30.78	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/l?	<input checked="" 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 1:05 pm today Frank Hancock called me to let me know that while making a wellsite visit on the Keeling Federal #1 he noticed a wet spot on the soil next to and under the water pit. Frank shut the well in and called for a water truck. His top recorded gauge and what was left in the pit show that 30.78 bbls produced water was released. The pit bottom failure appears to have happened along an I beam under the pit but not directly along a weld.

35

Incident ID	
District RP	
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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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Nature and Volume of Release

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

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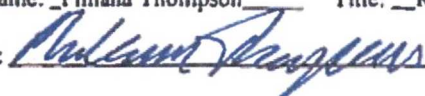
State of New Mexico
Oil Conservation Division

Incident ID	
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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 contacted Brandon Powell via cell phone 4:20 PM 9/26/18 left a message.	

Initial Response

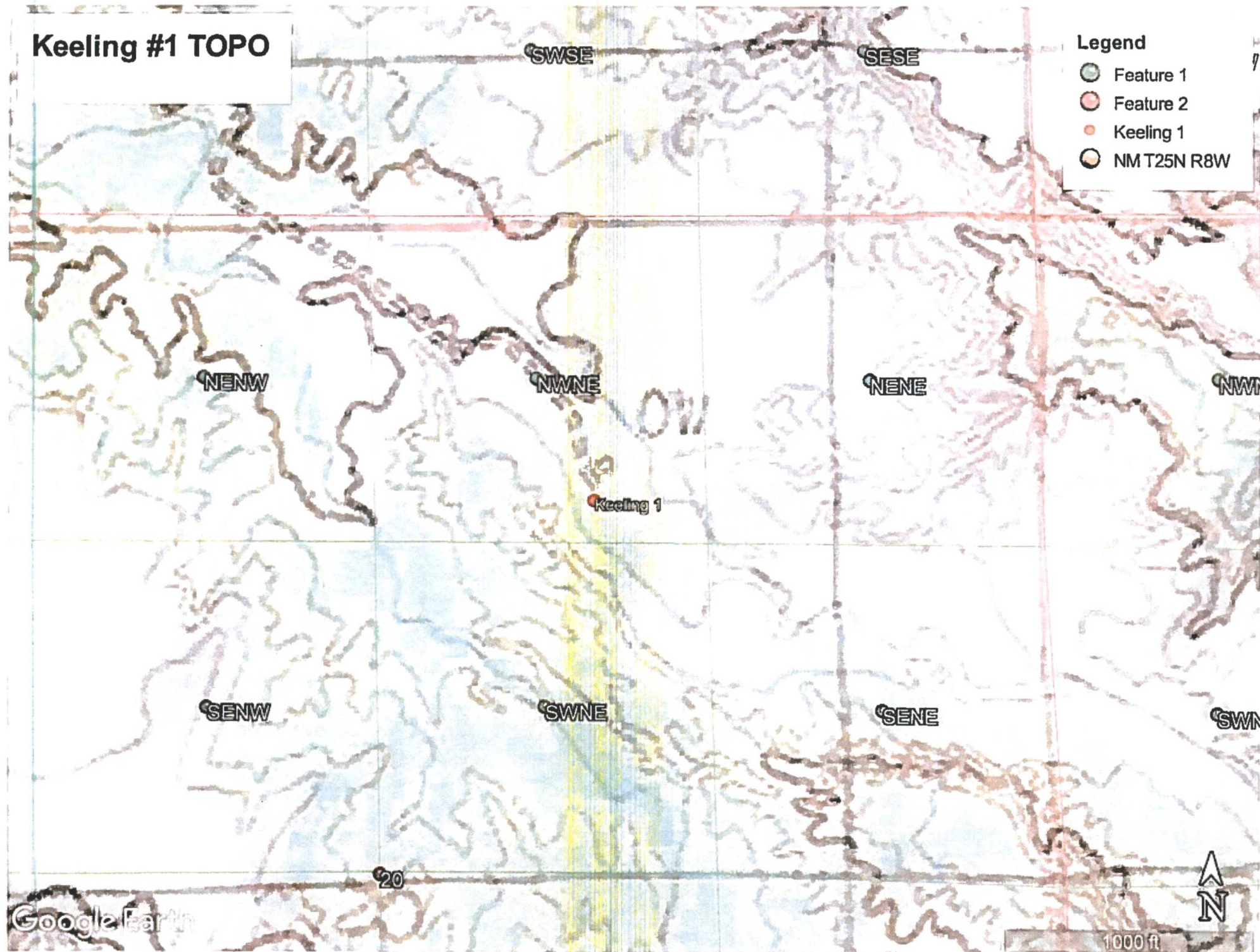
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<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>9/26/2018</u>
email: <u>pthompson@merrion.bz</u> Telephone: <u>505-486-1171</u>
<u>OCD Only</u>
Received by: _____ Date: _____

Keeling #1 TOPO

Legend

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



Keeling #1

Legend

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

Preserved

30 ft
27 ft

Keeling 1 88 feet

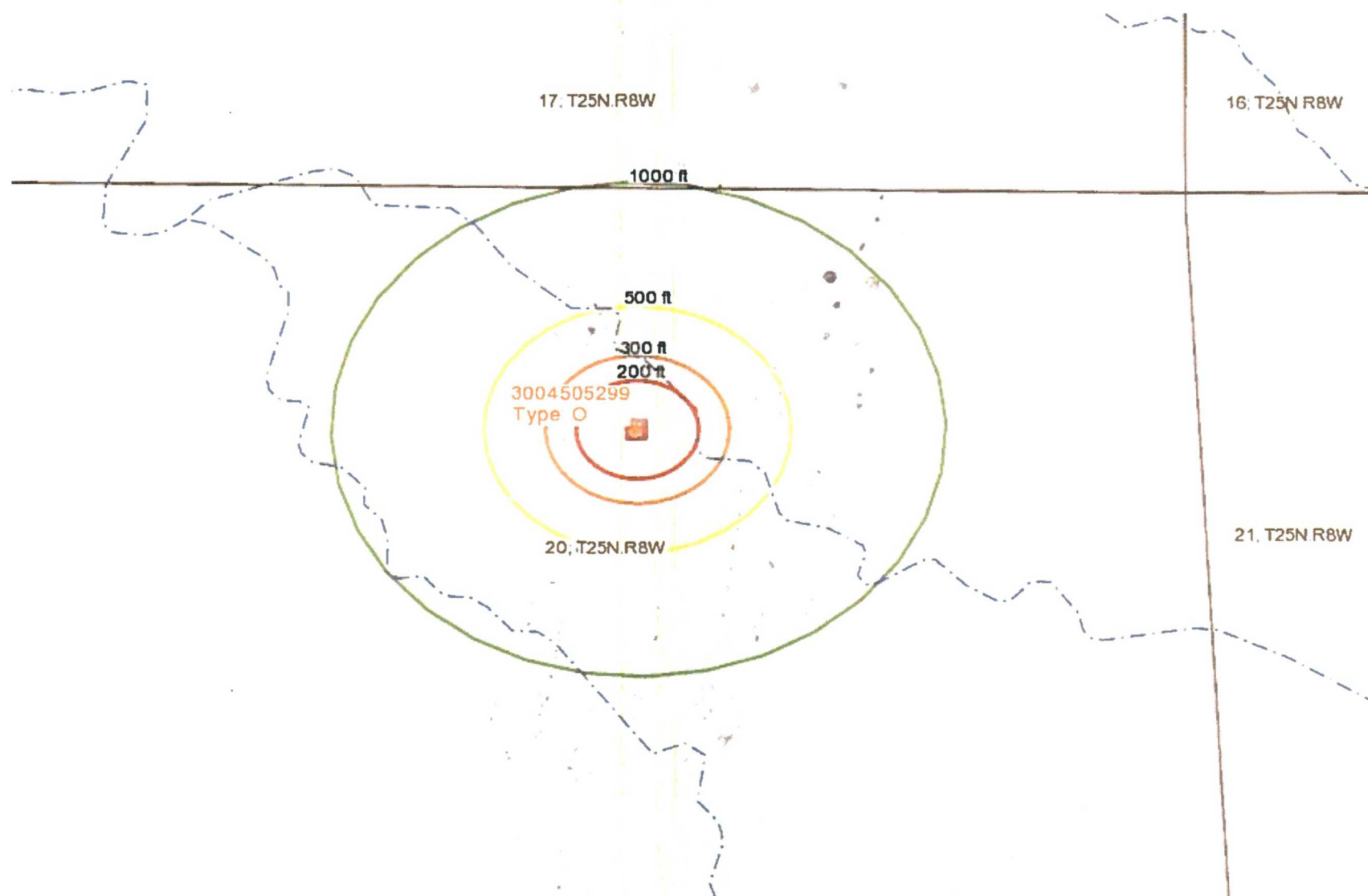
64 feet

Oil

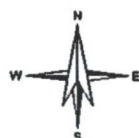
61 feet

78 feet





0 200 400ft



Petroleum Recovery
Research Center

Keeling #1

Figure:

nVF1829627459 nVF1829629660

Jan 03, 2019

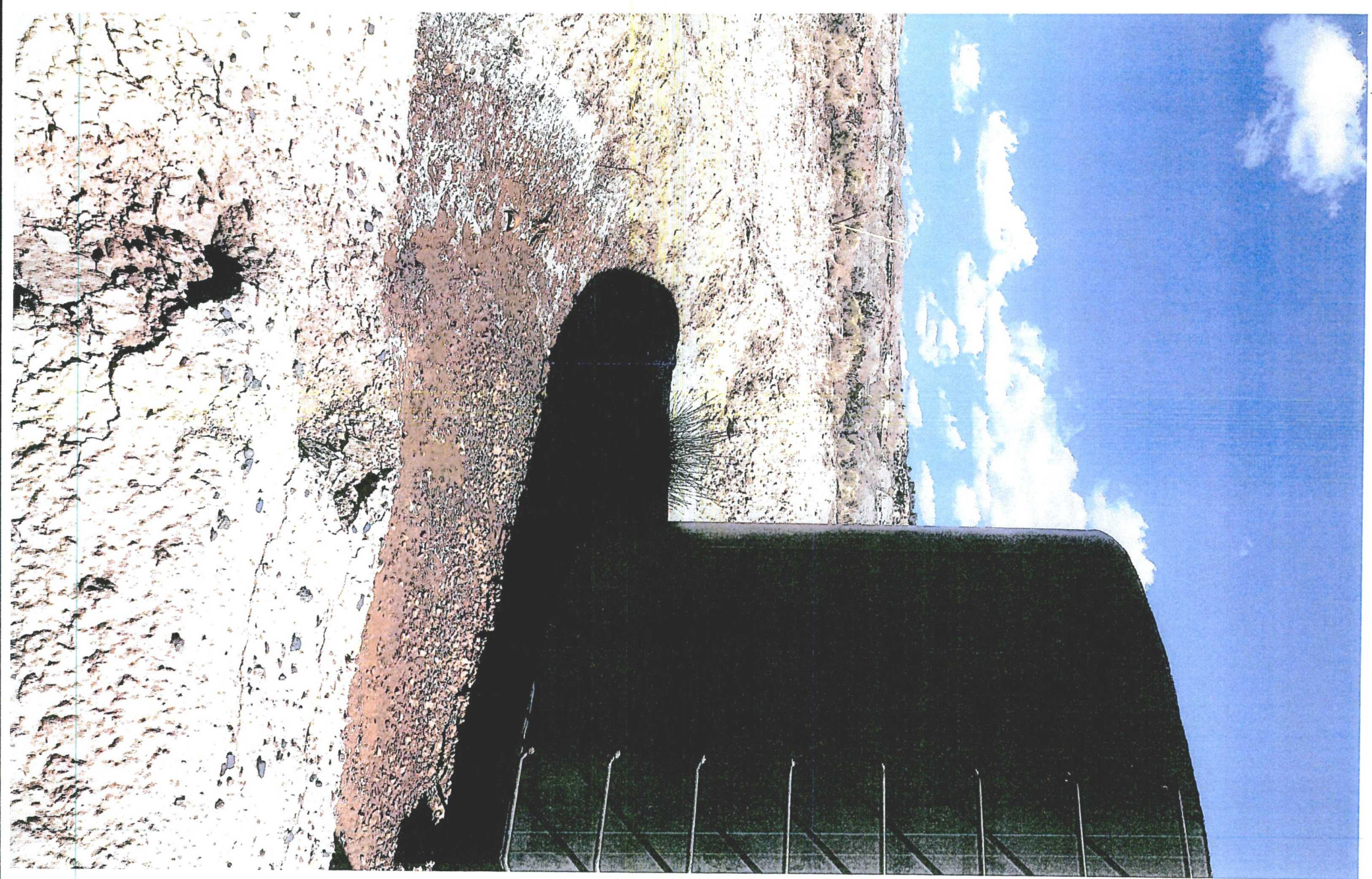
Keeling #1 Sampling Events

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



NVF 1829629660

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

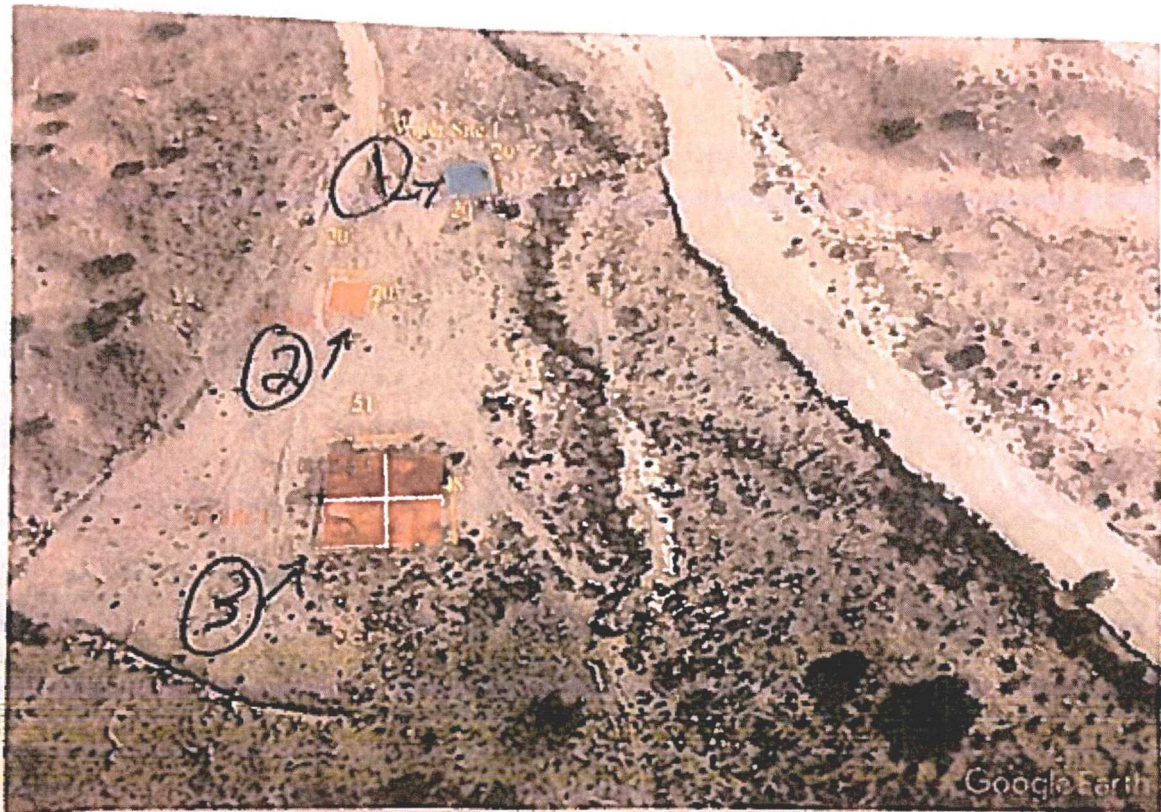
Work Detail: Farmington Fab and Welding, KCE Services and 3 D Services went to location on 10/17/18. Built new water and oil dump lines, repaired holes in water pit (see attached photo). Set water pit, tied in oil dump line to oil tank. Tied in water dump line to water pit, backfilled ditch and built 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:

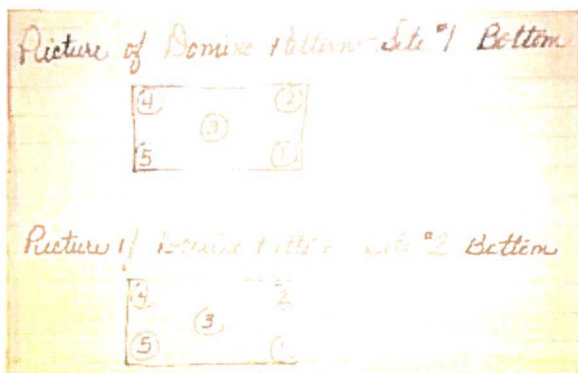
- Designate site location and sample date under field notes

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.

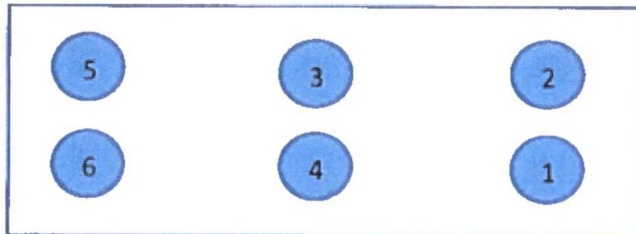
Site #2 - Small Oil Spill

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.

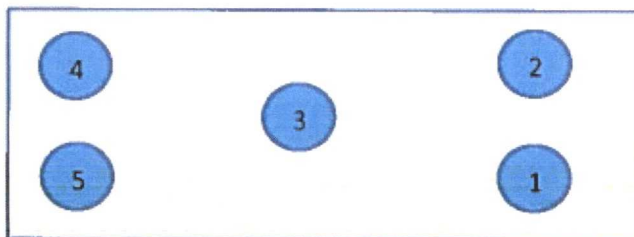


Site 3 (Large Oil Spill)

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.



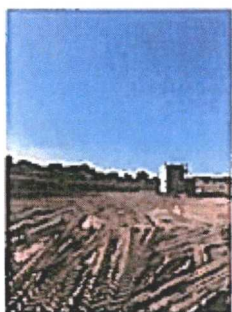
On this site, there was a composite sample from the North bench, South bench, West wall, East wall, and bottom. A total of 5 composite samples were turned in for this location. Had no phone service at these sites to collect GPS coordinates.

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**

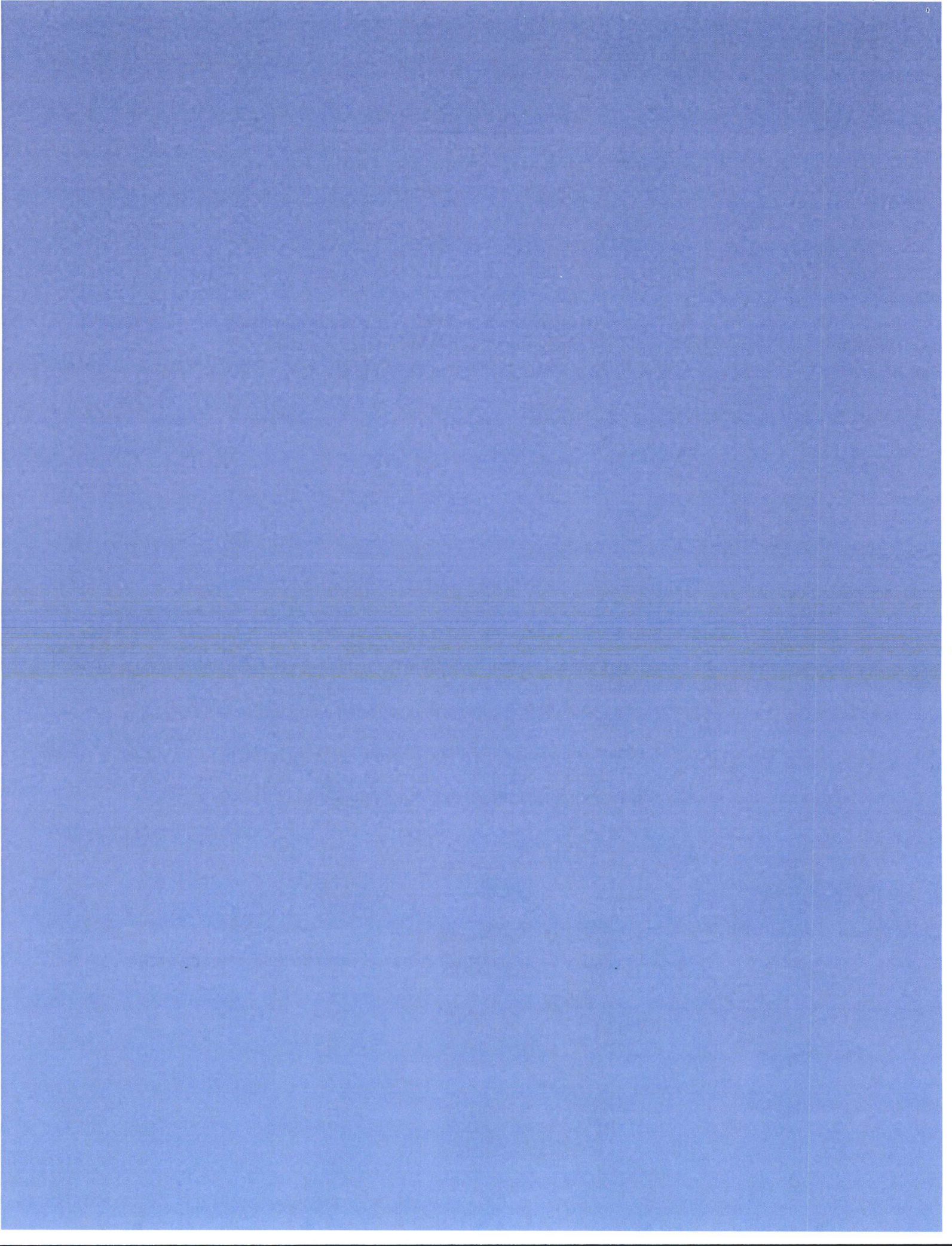
Work Detail: 3 D Services went to location 11/9/18. After extended extraction of soil on North Bench, we found additional contaminated soil. After removal of all contaminated soil, the North Bench disappeared. The above photo shows some old pipe that was discovered along the South Bench. It has some 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







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

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.
1 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

South Bench
P810102-01 (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	10/25/18	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

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	
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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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 Fr (800) 362-1879

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

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

North Shelf
P810102-03 (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		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	
1 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	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.0 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
Surrogate: n-Nonane		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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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

**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	
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

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	
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	
I 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		98.7 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
Surrogate: n-Nonane		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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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

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	
Surrogate: 4-Bromochlorobenzene-PID		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	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.5 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
Surrogate: n-Nonane		130 %		50-200	1843014	10/24/18	10/23/18	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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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

East Wall
P810102-07 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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		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)	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	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.2 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
Surrogate: n-Nonane		155 %		50-200	1843014	10/24/18	10/23/18	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	
Surrogate: 4-Bromochlorobenzene-PID		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	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.3 %		50-150	1843011	10/23/18	10/26/18	EPA 8015D	
Surrogate: n-Nonane		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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Merion 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

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
Blank (1843011-BLK1)

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

Benzene	ND	100	ug/kg
Toluene	ND	100	"
Ethylbenzene	ND	100	"
p,m-Xylene	ND	200	"
o-Xylene	ND	100	"
Total Xylenes	ND	100	"
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	103	70-130
Toluene	5220	100	"	5000	104	70-130
Ethylbenzene	5270	100	"	5000	105	70-130
p,m-Xylene	10800	200	"	10000	108	70-130
o-Xylene	5200	100	"	5000	104	70-130
Total Xylenes	16000	100	"	15000	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

Benzene	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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Merriam 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

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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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 laboratory@envirotech-inc.com

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

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1843014 - DRO Extraction EPA 3570
Blank (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

Diesel 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

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 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)

Source: P810102-01

Prepared & Analyzed: 10/25/18 1

Chloride 757 20.0 mg/kg 250 532 90.2 80-120

Matrix Spike Dup (1843021-MSD1)

Source: P810102-01

Prepared & Analyzed: 10/25/18 1

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

SPK1 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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laboratory@envirotech-inc.com

Project Information

Chain of Custody

Page 1 of 1

Client: Merrill Oil & Gas
 Project: Reel. by #1
 Project Manager: Philana Thompson
 Address: 610 Reel
 City, State, Zip: Farmington, NM
 Phone: 505-486-1191
 Email: thompson.admin@h2

Report Attention

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

Lab Use Only

Lab WO# P810102
 Job Number 03048-0009

TAT

1D 3D

EPA Program

RCRA CWA SDWA

Analysis and Method

State

NM CO UT AZ

X

Remarks

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														
10:46 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:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling 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 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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>Steve Callias</u>	10/19/18	1530	<u>Steve Callias</u>	10/19/18	1530	Received on ice: <u>Y/N</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
						AVG Temp °C <u>11.0</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

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 expense. The report for the analysis of the above 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.

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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

Invoice Number: 45788

Project/Job: 03048-0056-2 LF

DATE: 10/19/2018

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
10/10/2018	36	CY	BOL 61978		
10/10/2018	1	Ea	Soil Remediation at Permitted Facility		
10/10/2018	1	Ea	Paint Filter Test		
		Ea	Chloride Test		

OCT 24 2018

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 # 61978

GENERATOR Merriam oil

POINT OF ORIGIN Keejau #1

TRANSPORTER 3 D. Service

DATE 10-10-18 JOB # 03648-0056

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	CANITSOIL	G30	12	-	-	22	1250		
2	"	" "	G36	12	-	-	22	1430		
3	"	" "	G36	12	-	-	22	1600		
				/		ncciver				
				36						
RESULTS		LANDFARM EMPLOYEE	NOTES							
210	CHLORIDE TEST									1
	PAINTE 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 _____
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Signatures required prior to distribution of the le document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy