

3RF-43 -  
KWU 2309-19K  
RECYCLING  
FACILITY ID  
[fCS1902230487]  
C-147/Primary Liner  
Compromise Repair  
Report

[372286] ENDURING  
RESOURCES, LLC  
09/03/2021

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-147  
Revised April 3, 2017

## Recycling Facility and/or Recycling Containment

**Type of Facility:** ☒ Recycling Facility ☒ Recycling Containment\*  
**Type of action:** ☐ Permit ☐ Registration  
☐ Modification ☐ Extension  
☐ Closure ☒ Other (explain) **Notice of Fluid Detection**

### Sample results

\* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.

Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.

Operator: Enduring Resources, LLC (For multiple operators attach page with information) OGRID #: 372286  
Address: 200 Energy Court, Farmington, NM 87401  
Facility or well name (include API# if associated with a well): KWU 2309 19K Water Recycle Facility  
OCD Permit Number: 3RF-43 (For new facilities the permit number will be assigned by the district office)  
U/L or Qtr/Qtr NE/4 SW/4 Section 19 Township 23N Range 9W County: San Juan  
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.

☒ **Recycling Facility:**  
Location of recycling facility (if applicable): Latitude 36.210825 Longitude -107.831105 NAD83  
Proposed Use: ☒ Drilling\* ☒ Completion\* ☒ Production\* ☒ Plugging\*  
*\*The re-use of produced water may NOT be used until fresh water zones are cased and cemented*  
☐ Other, *requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.*  
☒ Fluid Storage  
☒ Above ground tanks ☒ Recycling containment ☐ Activity permitted under 19.15.17 NMAC explain type \_\_\_\_\_  
☐ Activity permitted under 19.15.36 NMAC explain type: \_\_\_\_\_ ☐ Other explain \_\_\_\_\_  
☐ For multiple or additional recycling containments, attach design and location information of each containment  
☐ **Closure Report (required within 60 days of closure completion):** ☐ Recycling Facility Closure Completion Date: \_\_\_\_\_

3.

☒ **Recycling Containment:**  
☐ Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)  
Center of Recycling Containment (if applicable): Latitude 36.210825 Longitude -107.831105 NAD83  
☐ For multiple or additional recycling containments, attach design and location information of each containment  
☐ Lined ☒ Liner type: Thickness 45 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☒ String-Reinforced  
Liner Seams: ☒ Welded ☒ Factory ☐ Other \_\_\_\_\_ Volume: 213,698 bbl Dimensions: L 500' x W 240' x D 25'  
☐ Recycling Containment Closure Completion Date: \_\_\_\_\_

4.

**Bonding:**

- ☒ Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or operated by the owners of the containment.)
- ☐ Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ \_\_\_\_\_ (work on these facilities cannot commence until bonding amounts are approved)
- ☐ Attach closure cost estimate and documentation on how the closure cost was calculated.

5.

**Fencing:**

- ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
- ☒ Alternate. Please specify 8' Tall Chain Link Fencing

6.

**Signs:**

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☒ Signed in compliance with 19.15.16.8 NMAC

7.

**Variances:**

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

**Check the below box only if a variance is requested:**

- ☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

**If a Variance is requested, it must be approved prior to implementation.**

8.

**Siting Criteria for Recycling Containment**

**Instructions:** The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.

**General siting****Ground water is less than 50 feet below the bottom of the Recycling Containment.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☒ No  
☐ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; written approval obtained from the municipality

☐ Yes ☒ No  
☐ NA

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division

☐ Yes ☒ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map

☐ Yes ☒ No

Within a 100-year floodplain. FEMA map

☐ Yes ☒ No

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; aerial photo; satellite image

☐ Yes ☒ No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site

☐ Yes ☒ No

9.

**Recycling Facility and/or Containment Checklist:**

**Instructions:** Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements.
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements.
- ☐ Closure Plan - based upon the appropriate requirements.
- ☐ Site Specific Groundwater Data -
- ☐ Siting Criteria Compliance Demonstrations -
- ☐ **Certify that notice of the C-147 (only) has been sent to the surface owner(s)**

10.

**Operator Application Certification:**

I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): Heather Huntington Title: Permitting Tech

Signature:  Date: 09/03/2021

e-mail address: hhuntington@enduringresources.com Telephone: 505-636-9751

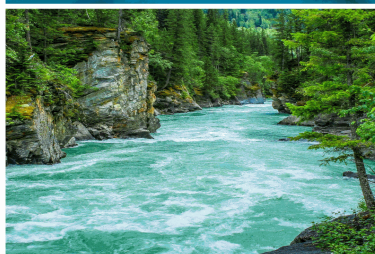
11.

OCD Representative Signature: Victoria Venegas Approval Date: 09/20/2021

Title: Environmental Specialist OCD Permit Number: 3RF-43

- ☐ OCD Conditions
- ☐ Additional OCD Conditions on Attachment

Report to:  
Adam Kelly



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Magna Energy Services

Project Name: KWU 19K

Work Order: E108111

Job Number: 11181-0001

Received: 8/27/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/1/21

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/1/21

Adam Kelly  
PO Box 3950  
Farmington, NM 87499



Project Name: KWU 19K  
Workorder: E108111  
Date Received: 8/27/2021 4:10:00PM

Adam Kelly,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/27/2021 4:10:00PM, under the Project Name: KWU 19K.

The analytical test results summarized in this report with the Project Name: KWU 19K apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Tom Brown**  
Technical Representative  
Cell: 832-444-7704  
[tbrown@envirotech-inc.com](mailto:tbrown@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
Pond Water	5
L.D. Water	6
QC Summary Data	7
QC - Wet Chem/Gravimetric by SM2540C	7
QC - Wet Chemistry by 9040C/4500H+B	8
QC - Wet Chemistry by SM2320B	9
QC - Wet Chemistry by 9050A/2510B	10
QC - Dissolved Metals by EPA 6010C	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Magna Energy Services	Project Name:	KWU 19K	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	09/01/21 16:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Pond Water	E108111-01A	Aqueous	08/27/21	08/27/21	Poly 500mL
L.D. Water	E108111-02A	Aqueous	08/27/21	08/27/21	Poly 500mL



## Sample Data

Magna Energy Services PO Box 3950 Farmington NM, 87499	Project Name: KWU 19K Project Number: 11181-0001 Project Manager: Adam Kelly	<b>Reported:</b> 9/1/2021 4:55:24PM
--	--	--

### Pond Water

#### E108111-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Wet Chem/Gravimetric by SM2540C</b>	mg/L	mg/L	Analyst: RAS		Batch: 2135033	
Total Dissolved Solids	<b>35700</b>	200	1	09/01/21	09/01/21	
<b>Wet Chemistry by 9040C/4500H+B</b>	pH Units	pH Units	Analyst: RAS		Batch: 2136024	
pH @25°C	<b>8.01</b>		1	09/01/21 10:20	09/01/21 11:34	H5
<b>Wet Chemistry by SM2320B</b>	mg/L	mg/L	Analyst: JL		Batch: 2136009	
Total Alkalinity (as CaCO <sub>3</sub> at pH 4.5)	<b>642</b>	10.0	1	08/30/21	08/30/21	
<b>Wet Chemistry by 9050A/2510B</b>	uS/cm	uS/cm	Analyst: JL		Batch: 2135010	
Specific Conductance (@ 25 C)	<b>58200</b>	10.0	1	08/31/21	08/31/21	
<b>Dissolved Metals by EPA 6010C</b>	mg/L	mg/L	Analyst: AC		Batch: 2136003	
Calcium	<b>299</b>	20.0	20	08/31/21	08/31/21	
Iron	ND	20.0	10	08/31/21	08/31/21	
Magnesium	<b>87.2</b>	20.0	20	08/31/21	08/31/21	
Potassium	<b>101</b>	20.0	20	08/31/21	08/31/21	
Sodium	<b>15200</b>	1000	500	08/31/21	08/31/21	
Sodium Absorption Ratio (CALC)	<b>199</b>		1	09/01/21	09/01/21	
<b>Anions by EPA 300.0/9056A</b>	mg/L	mg/L	Analyst: IY		Batch: 2135046	
Fluoride	ND	125	500	08/27/21	08/27/21	
Chloride	<b>29900</b>	1000	500	08/27/21	08/27/21	
Nitrite-N	ND	125	500	08/27/21 16:26	08/27/21 20:23	
Nitrate-N	ND	125	500	08/27/21 16:26	08/27/21 20:23	
o-Phosphate-P	ND	125	500	08/27/21 16:26	08/27/21 20:23	
Sulfate	ND	1000	500	08/27/21	08/27/21	



## Sample Data

Magna Energy Services  
PO Box 3950  
Farmington NM, 87499

Project Name: KWU 19K  
Project Number: 11181-0001  
Project Manager: Adam Kelly

**Reported:**  
9/1/2021 4:55:24PM

## L.D. Water

## E108111-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Wet Chem/Gravimetric by SM2540C</b>						
	mg/L	mg/L		Analyst: RAS		Batch: 2135033
Total Dissolved Solids	<b>33700</b>	200	1	09/01/21	09/01/21	
<b>Wet Chemistry by 9040C/4500H+B</b>						
	pH Units	pH Units		Analyst: RAS		Batch: 2136024
pH @25°C	<b>7.93</b>		1	09/01/21 10:20	09/01/21 11:34	H5
<b>Wet Chemistry by SM2320B</b>						
	mg/L	mg/L		Analyst: JL		Batch: 2136009
Total Alkalinity (as CaCO <sub>3</sub> at pH 4.5)	<b>702</b>	10.0	1	08/30/21	08/30/21	
<b>Wet Chemistry by 9050A/2510B</b>						
	uS/cm	uS/cm		Analyst: JL		Batch: 2135010
Specific Conductance (@ 25 C)	<b>55700</b>	10.0	1	08/31/21	08/31/21	
<b>Dissolved Metals by EPA 6010C</b>						
	mg/L	mg/L		Analyst: AC		Batch: 2136003
Calcium	<b>300</b>	20.0	20	08/31/21	08/31/21	
Iron	ND	20.0	10	08/31/21	08/31/21	
Magnesium	<b>88.2</b>	20.0	20	08/31/21	08/31/21	
Potassium	<b>160</b>	20.0	20	08/31/21	08/31/21	
Sodium	<b>13700</b>	1000	500	08/31/21	08/31/21	
Sodium Absorption Ratio (CALC)	<b>178</b>		1	09/01/21	09/01/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/L	mg/L		Analyst: IY		Batch: 2135046
Fluoride	ND	125	500	08/27/21	08/27/21	
Chloride	<b>32500</b>	1000	500	08/27/21	08/27/21	
Nitrite-N	ND	125	500	08/27/21 16:26	08/27/21 21:34	
Nitrate-N	ND	125	500	08/27/21 16:26	08/27/21 21:34	
o-Phosphate-P	ND	125	500	08/27/21 16:26	08/27/21 21:34	
Sulfate	ND	1000	500	08/27/21	08/27/21	



QC Summary Data

Magna Energy Services	Project Name:	KWU 19K	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	9/1/2021 4:55:24PM

Wet Chem/Gravimetric by SM2540C

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

Blank (2135033-BLK1)					Prepared: 08/26/21 Analyzed: 08/30/21				
Total Dissolved Solids	ND	10.0							
LCS (2135033-BS1)					Prepared: 08/26/21 Analyzed: 08/30/21				
Total Dissolved Solids	113	10.0	100		113	55-134			
Duplicate (2135033-DUP1)					Source: E108085-04 Prepared: 08/26/21 Analyzed: 08/30/21				
Total Dissolved Solids	183000	200		191000		4.44	5		



QC Summary Data

Magna Energy Services	Project Name:	KWU 19K	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	9/1/2021 4:55:24PM

Wet Chemistry by 9040C/4500H+B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	pH Units	pH Units	pH Units	pH Units	%	%	%	%	

LCS (2136024-BS1) Prepared: 09/01/21 Analyzed: 09/01/21

pH	8.00	8.00	100	98.75-101.25
----	------	------	-----	--------------

Duplicate (2136024-DUP1) Source: E108111-01 Prepared: 09/01/21 Analyzed: 09/01/21

pH	8.01	8.01	0.00	20
----	------	------	------	----



QC Summary Data

Magna Energy Services	Project Name:	KWU 19K	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	9/1/2021 4:55:24PM

Wet Chemistry by SM2320B

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

LCS (2136009-BS1)					Prepared: 08/30/21 Analyzed: 08/30/21				
Total Alkalinity (as CaCO3 at pH 4.5)	260	10.0	250		104	70-130			
LCS Dup (2136009-BSD1)					Prepared: 08/30/21 Analyzed: 08/30/21				
Total Alkalinity (as CaCO3 at pH 4.5)	265	10.0	250		106	70-130	1.90	20	



QC Summary Data

Magna Energy Services	Project Name:	KWU 19K	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	9/1/2021 4:55:24PM

Wet Chemistry by 9050A/2510B

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	uS/cm	uS/cm	uS/cm	uS/cm	%	%	%	%	

Blank (2135010-BLK1)	Prepared: 08/31/21 Analyzed: 08/31/21								
Specific Conductance (@ 25 C)	ND	10.0							
LCS (2135010-BS1)	Prepared: 08/31/21 Analyzed: 08/31/21								
Specific Conductance (@ 25 C)	1410	10.0	1410		99.8	98-102			
Duplicate (2135010-DUP1)	Source: E108083-01 Prepared: 08/31/21 Analyzed: 08/31/21								
Specific Conductance (@ 25 C)	744	10.0		720			3.28	20	



## QC Summary Data

Magna Energy Services	Project Name:	KWU 19K	<b>Reported:</b>
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	9/1/2021 4:55:24PM

## Dissolved Metals by EPA 6010C

Analyst: AC

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

## Blank (2136003-BLK1)

Prepared: 08/31/21 Analyzed: 08/31/21

Calcium	ND	1.00
Iron	ND	2.00
Magnesium	ND	1.00
Potassium	ND	1.00
Sodium	ND	2.00

## LCS (2136003-BS1)

Prepared: 08/31/21 Analyzed: 08/31/21

Calcium	50.9	1.00	50.0	102	80-120
Iron	102	2.00	100	102	80-120
Magnesium	50.9	1.00	50.0	102	80-120
Potassium	4.95	1.00	5.00	98.9	80-120
Sodium	18.8	2.00	20.0	94.2	80-120

## LCS Dup (2136003-BSD1)

Prepared: 08/31/21 Analyzed: 08/31/21

Calcium	49.7	1.00	50.0	99.4	80-120	2.47	20
Iron	100	2.00	100	100	80-120	2.27	20
Magnesium	50.3	1.00	50.0	101	80-120	1.07	20
Potassium	4.92	1.00	5.00	98.3	80-120	0.568	20
Sodium	18.9	2.00	20.0	94.3	80-120	0.106	20



## QC Summary Data

Magna Energy Services	Project Name:	KWU 19K	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	9/1/2021 4:55:24PM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/L	mg/L	mg/L	mg/L	%	%	%	%	

## Blank (2135046-BLK1)

Prepared: 08/27/21 Analyzed: 08/30/21

Fluoride	ND	0.250
Chloride	ND	2.00
Nitrite-N	ND	0.250
Nitrate-N	ND	0.250
o-Phosphate-P	ND	0.250
Sulfate	ND	2.00

## LCS (2135046-BS1)

Prepared: 08/27/21 Analyzed: 08/30/21

Fluoride	2.70	0.250	2.50	108	90-110
Chloride	25.1	2.00	25.0	100	90-110
Nitrite-N	2.51	0.250	2.50	100	90-110
Nitrate-N	2.56	0.250	2.50	102	90-110
o-Phosphate-P	12.4	0.250	12.5	99.0	90-110
Sulfate	24.3	2.00	25.0	97.1	90-110

## LCS Dup (2135046-BSD1)

Prepared: 08/27/21 Analyzed: 08/30/21

Fluoride	2.60	0.250	2.50	104	90-110	3.77	20
Chloride	25.1	2.00	25.0	101	90-110	0.0677	20
Nitrite-N	2.51	0.250	2.50	100	90-110	0.199	20
Nitrate-N	2.55	0.250	2.50	102	90-110	0.313	20
o-Phosphate-P	12.4	0.250	12.5	99.3	90-110	0.323	20
Sulfate	24.4	2.00	25.0	97.4	90-110	0.370	20

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Magna Energy Services	Project Name:	KWU 19K	
PO Box 3950	Project Number:	11181-0001	Reported:
Farmington NM, 87499	Project Manager:	Adam Kelly	09/01/21 16:55

- H5        pH is specified to be performed in the field within 15 minutes of sampling. The sample was performed as quickly as possible.
- ND        Analyte NOT DETECTED at or above the reporting limit
- NR        Not Reported
- RPD       Relative Percent Difference
- DNI       Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





## Envirotech Analytical Laboratory

Printed: 8/30/2021 9:39:13AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Magna Energy Services	Date Received:	08/27/21 16:10	Work Order ID:	E108111
Phone:	(505) 860-6100	Date Logged In:	08/27/21 16:14	Logged In By:	Raina Schwanz
Email:	ak.magna@digii.net	Due Date:	09/03/21 17:00 (5 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Glenn Shelby**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? No

**Sample Cooler**

7. Was a sample cooler received? No
8. If yes, was cooler received in good condition? NA
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C No

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 26.5°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? No
  - Collectors name? No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? Yes

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

**8/20/2021**

**Enduring Resources KWU 2309-19K 3RF-43 Primary Liner Compromise Repair Report**

The primary liner repair was completed as of 7/13/21. The containment fill up started on 7/15/21 and the first 10% fill level was reached in mid-August. Fluid was detected in the leak detection and we suspect the liner is leaking. Containment fill up operations have ceased per the conditions of approval dated 5/3/2021 for the initial repair and fill up process. We anticipate having water analysis results by 8/27/21 to determine if the water in the leak detection is produced water. Enduring's plan is to transfer water from the KWU 2309-19K 3RF-43 to an AST near the WLU 2309-24N3RF-29, locate, and complete liner repairs. Enduring Resources will re-initiate the fill up process per conditions of approval previously mentioned. Enduring Resources is awaiting BLM approval of the AST site and the liner vendor has tentatively scheduled repairs to begin 9/13/21. It is also our understanding that due to the liner repairs the requirement for extension is suspended.

**9-3-2021**

Samples attached confirm that the fluid is produced water.

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 46485

**CONDITIONS**

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 46485
	Action Type: [C-147] Water Recycle Long (C-147L)

**CONDITIONS**

Created By	Condition	Condition Date
vvenegas	Enduring Resources KWU 2309-19K 3RF-43 Primary Liner Compromise Repair Report has been accepted as part of the KWU 2309-19K RECYCLING FACILITY [FCS1902230487] administrative record.	9/20/2021