

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**

* 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 TechSignature: _____ Date: 11/2/2021e-mail address: hhuntington@enduringresources.com Telephone: 505-636-9751

11.

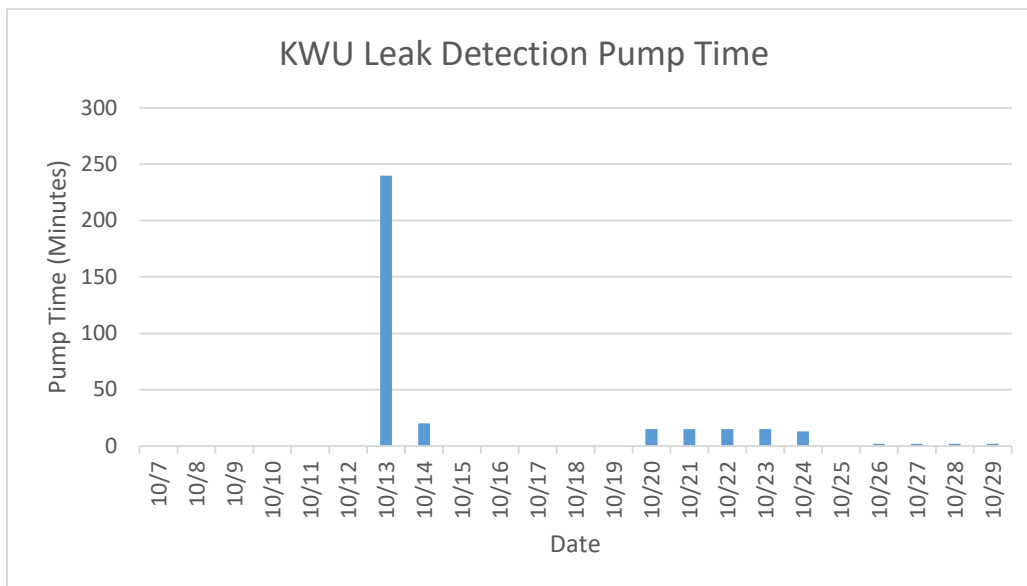
OCD Representative Signature: Victoria Venegas **Approval Date:** 11/05/2021**Title:** Environmental Specialist **OCD Permit Number:** 3RF-☐ **OCD Conditions** _____☐ **Additional OCD Conditions on Attachment**

11/2/2021**Enduring Resources KWU 2309-19K 3RF-43 Primary Liner Compromise Repair Report**

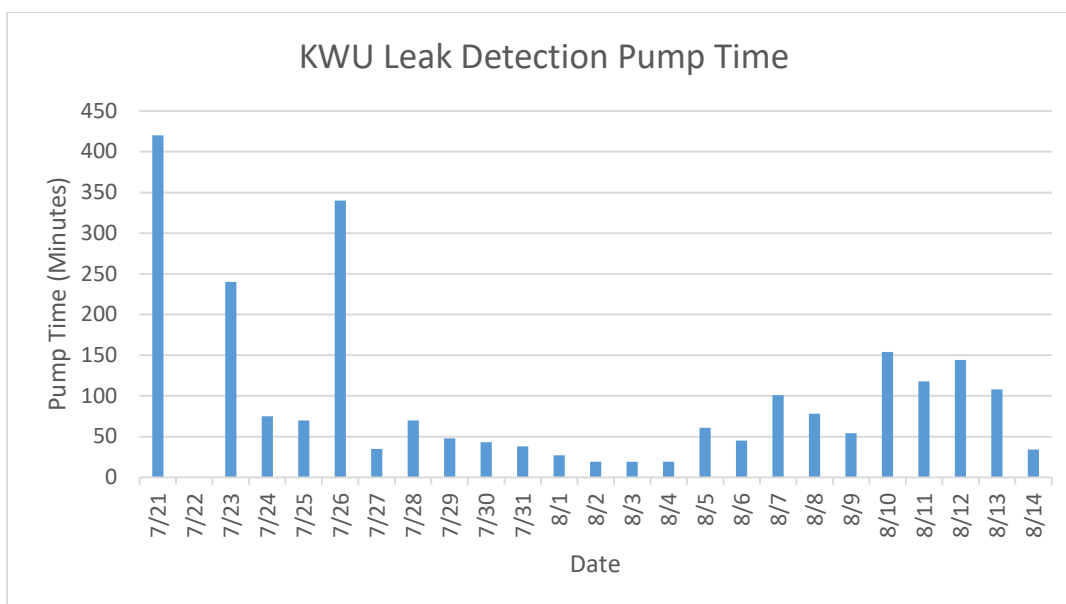
Enduring started filling the KWU 2309-19K 3RF-43 on 10/11/2021. Once Enduring started the filling operation, pumping the leak detection system also began. This was anticipated due to the excessive storms during the inspection and liner fix. As expected, Enduring observed a large decrease in leak detection pump timing as the pond level increased. Enduring commenced the first 24-hour test on 10/26/2021. After 24 hours, Enduring observed roughly 2 minutes of leak detection pumping. Samples and data were gathered of the pond quality vs. the leak detection quality. The current leak detection data and the previous fill attempt leak detection data are below.

When comparing the two graphs, the current fill data indicates a leak detection pump time stagnation as the pond level reached the 6' level whereas the previous fill data depicts an increased pump time once the pond reached a 6' level. Based on this data, and the fact that Enduring observed a clear leak detection stream, indicates that there is water between the two liner layers that is slowly migrating to the leak detection pump.

Current data



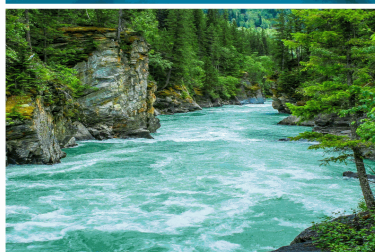
Previous fill attempt



Sample results from the leak detection were received and, although the leak detection sample appears to have high chlorides, when compared to ground water, it is about 33% lower than the pond water sample taken during our initial fill – July of 2021. Upon our initial fill, we found several holes in the primary liner, likely caused by an outside source; therefore, Enduring expects the leak detection water to have elevated chlorides in comparison to ground water even after the additional storm events. Furthermore, our leak detection pump times, during 24-hour test, have continued to remain at 2 minutes or decreased below 2 minutes. Sample results are attached for both current fill and last fill attempt.

With all the data collected and evaluated, Enduring Resources concludes that the primary liner leak has been fixed and filling operations have commenced to the next 10% milestone.

Report to:
Adam Kelly



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Magna Energy Services

Project Name: Kimbeto Wash Unit

Work Order: E107059

Job Number: 11181-0001

Received: 7/29/2021

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
7/29/21

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: 7/29/21

Adam Kelly
116 E. Twilight Dr.
Farmington, NM 87401



Project Name: Kimbeto Wash Unit
Workorder: E107059
Date Received: 7/29/2021 7:45:00AM

Adam Kelly,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/29/2021 7:45:00AM, under the Project Name: Kimbeto Wash Unit.

The analytical test results summarized in this report with the Project Name: Kimbeto Wash Unit 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Alexa Michaels
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tbrown@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Magna Energy Services 116 E. Twilight Dr. Farmington NM, 87401	Project Name: Kimbeto Wash Unit Project Number: 11181-0001 Project Manager: Adam Kelly	Reported: 07/29/21 16:00
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
KWU Pond Water	E107059-01A	Aqueous	07/28/21	07/29/21	Plastic Jar
KWU Leak Detection	E107059-02A	Aqueous	07/28/21	07/29/21	Plastic Jar



Sample Data

Magna Energy Services 116 E. Twilight Dr. Farmington NM, 87401	Project Name: Kimbeto Wash Unit Project Number: 11181-0001 Project Manager: Adam Kelly	Reported: 7/29/2021 4:00:14PM
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KWU Pond Water

E107059-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chemistry by 9040C/4500H+B						
pH @25°C	7.82	pH Units	1	07/29/21 08:32	07/29/21 15:21	Batch: 2131020 H5
Wet Chemistry by 9050A/2510B						
Specific Conductance (@ 25 C)	40600	uS/cm	1	07/29/21	07/29/21	Batch: 2131019
Dissolved Metals by EPA 6010C						
Calcium	232	mg/L	20	07/28/21	07/29/21	Batch: 2131009 C6
Iron	ND	mg/L	20	07/28/21	07/29/21	
Magnesium	64.6	mg/L	20	07/28/21	07/29/21	
Potassium	60.2	mg/L	20	07/28/21	07/29/21	
Sodium	8460	mg/L	200	07/28/21	07/29/21	
Sodium Absorption Ratio	127		1	07/29/21	07/29/21	
Anions by EPA 300.0/9056A						
Fluoride	ND	mg/L	100	07/29/21	07/29/21	
Chloride	35200	mg/L	100	07/29/21	07/29/21	
Nitrite-N	ND	mg/L	100	07/29/21 08:30	07/29/21 14:11	
Nitrate-N	ND	mg/L	100	07/29/21 08:30	07/29/21 14:11	
o-Phosphate-P	ND	mg/L	100	07/29/21 08:30	07/29/21 14:11	
Sulfate	418	mg/L	100	07/29/21	07/29/21	



Sample Data

Magna Energy Services
116 E. Twilight Dr.
Farmington NM, 87401

Project Name: Kimbeto Wash Unit
Project Number: 11181-0001
Project Manager: Adam Kelly

Reported:
7/29/2021 4:00:14PM

KWU Leak Detection

E107059-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chemistry by 9040C/4500H+B						
pH @25°C	pH Units	pH Units	Analyst: RAS			Batch: 2131020
	7.68		1	07/29/21 08:32	07/29/21 15:21	H5
Wet Chemistry by 9050A/2510B						
Specific Conductance (@ 25 C)	uS/cm	uS/cm	Analyst: RAS			Batch: 2131019
	47000	10.0	1	07/29/21	07/29/21	
Dissolved Metals by EPA 6010C						
	mg/L	mg/L	Analyst: AC			Batch: 2131009
Calcium	294	20.0	20	07/28/21	07/29/21	C6
Iron	ND	40.0	20	07/28/21	07/29/21	
Magnesium	79.9	20.0	20	07/28/21	07/29/21	
Potassium	84.2	20.0	20	07/28/21	07/29/21	
Sodium	11300	400	200	07/28/21	07/29/21	
Sodium Absorption Ratio	151		1	07/29/21	07/29/21	
Anions by EPA 300.0/9056A						
	mg/L	mg/L	Analyst: RAS			Batch: 2131018
Fluoride	ND	25.0	100	07/29/21	07/29/21	
Chloride	37200	200	100	07/29/21	07/29/21	
Nitrite-N	ND	25.0	100	07/29/21 08:30	07/29/21 14:34	
Nitrate-N	ND	25.0	100	07/29/21 08:30	07/29/21 14:34	
o-Phosphate-P	ND	25.0	100	07/29/21 08:30	07/29/21 14:34	
Sulfate	509	200	100	07/29/21	07/29/21	



QC Summary Data

Magna Energy Services 116 E. Twilight Dr. Farmington NM, 87401	Project Name: Kimbeto Wash Unit Project Number: 11181-0001 Project Manager: Adam Kelly	Reported: 7/29/2021 4:00:14PM
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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 (2131020-BS1)

Prepared: 07/29/21 Analyzed: 07/29/21

pH	8.01		8.00		100	98.75-101.25			
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Duplicate (2131020-DUP1)

Source: E107049-01 Prepared: 07/29/21 Analyzed: 07/29/21

pH	7.30			7.27		0.412	20		
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QC Summary Data

Magna Energy Services 116 E. Twilight Dr. Farmington NM, 87401	Project Name: Kimbeto Wash Unit Project Number: 11181-0001 Project Manager: Adam Kelly	Reported: 7/29/2021 4:00:14PM
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Wet Chemistry by 9050A/2510B

Analyst: RAS

Analyte	Result uS/cm	Reporting Limit uS/cm	Spike Level uS/cm	Source Result uS/cm	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2131019-BLK1)

Prepared: 07/29/21 Analyzed: 07/29/21

Specific Conductance (@ 25 C) ND 10.0

LCS (2131019-BS1)

Prepared: 07/29/21 Analyzed: 07/29/21

Specific Conductance (@ 25 C) 1430 10.0 1410 101 98-102

Duplicate (2131019-DUP1)

Source: E107049-01 Prepared: 07/29/21 Analyzed: 07/29/21

Specific Conductance (@ 25 C) 1310 10.0 1310 0.305 20



QC Summary Data

Magna Energy Services 116 E. Twilight Dr. Farmington NM, 87401	Project Name: Kimbeto Wash Unit Project Number: 11181-0001 Project Manager: Adam Kelly	Reported: 7/29/2021 4:00:14PM
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Dissolved Metals by EPA 6010C

Analyst: AC

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2131009-BLK1)

Prepared: 07/28/21 Analyzed: 07/28/21

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

LCS (2131009-BS1)

Prepared: 07/28/21 Analyzed: 07/28/21

Calcium	50.0	1.00	50.0	100	80-120
Iron	102	2.00	100	102	80-120
Magnesium	51.5	1.00	50.0	103	80-120
Potassium	5.58	1.00	5.00	112	80-120
Sodium	19.6	2.00	20.0	98.2	80-120

LCS Dup (2131009-BSD1)

Prepared: 07/28/21 Analyzed: 07/28/21

Calcium	49.9	1.00	50.0	99.8	80-120	0.260	20
Iron	101	2.00	100	101	80-120	0.691	20
Magnesium	50.7	1.00	50.0	101	80-120	1.56	20
Potassium	5.53	1.00	5.00	111	80-120	0.901	20
Sodium	19.3	2.00	20.0	96.6	80-120	1.69	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:	Kimbeto Wash Unit	
116 E. Twilight Dr.	Project Number:	11181-0001	Reported:
Farmington NM, 87401	Project Manager:	Adam Kelly	07/29/21 16:00

C6 The CV recovery was outside acceptance limits. The sample was analyzed multiple times all with similar bracketing CV results.

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.



Project Information

Chain of Custody

Page 1 of 1

Client: <u>MAGNA Energy</u>					Bill To					Lab Use Only					TAT				EPA Program			
Project: <u>Kimble Wash Unit</u>					Attention:					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA		
Project Manager: <u>Adam Kelly</u>					Address:					E107059		11181-0001			<input checked="" type="checkbox"/>							
Address:					City, State, Zip					Analysis and Method										RCRA		
City, State, Zip					Phone:					DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	CAT/ANIONS	PAC/CO					
Phone: <u>970-529-0775 (HABS)</u>					Email:																	
Email:																						
Report due by:																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
	7-28-21	Ag	1	KWU Pond water																		
	1	Ag	1	KWU Leak Detection																		
Additional Instructions:																						
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.										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				
					7-29-21		7:46AM							7/29/21		7:45		Received on ice: Y <input checked="" type="checkbox"/> N				
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		T1 22.6 T2 23.3 T3 23.2				
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		AVG Temp °C 23.1				
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.																						



Envirotech Analytical Laboratory

Printed: 7/29/2021 8:15:22AM

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:	07/29/21 07:45	Work Order ID:	E107059
Phone:	(505) 860-6100	Date Logged In:	07/29/21 08:02	Logged In By:	Jessica Liesse
Email:	ak.magna@digii.net	Due Date:	07/29/21 17:00 (0 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? No
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: Hoss**Comments/Resolution**

Insufficient sample for full cation/anion package, running as much as possible.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

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? No
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: 23.1°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? No
19. Is the appropriate volume/weight or number of sample containers collected? No

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? No

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

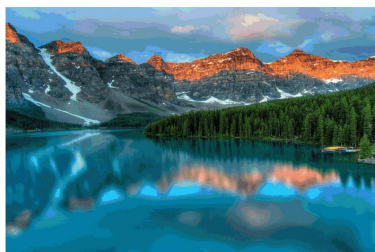
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Adam Kelly



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Magna Energy Services

Project Name: Kimbeto Wash 771

Work Order: E110145

Job Number: 11181-0001

Received: 10/28/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/1/21

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.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 11/1/21

Adam Kelly
PO Box 3950
Farmington, NM 87499



Project Name: Kimbeto Wash 771
Workorder: E110145
Date Received: 10/28/2021 10:41:00AM

Adam Kelly,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/28/2021 10:41:00AM, under the Project Name: Kimbeto Wash 771.

The analytical test results summarized in this report with the Project Name: Kimbeto Wash 771 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
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Sample Summary

Magna Energy Services	Project Name:	Kimbeto Wash 771	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	11/01/21 17:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Kimbeto Wash Unit 771	E110145-01A	Aqueous	10/27/21	10/28/21	Poly 500mL



Sample Data

Magna Energy Services PO Box 3950 Farmington NM, 87499	Project Name: Kimbeto Wash 771 Project Number: 11181-0001 Project Manager: Adam Kelly	Reported: 11/1/2021 5:53:56PM
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Kimbeto Wash Unit 771

E110145-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Wet Chem/Gravimetric by SM2540C	mg/L	mg/L	Analyst: IY		Batch: 2144069	
Total Dissolved Solids	38200	200	1	10/30/21	11/01/21	
Wet Chemistry by 9040C/4500H+B	pH Units	pH Units	Analyst: JL		Batch: 2144067	
pH @25°C	7.29		1	10/29/21 13:32	10/29/21 13:32	H5
Wet Chemistry by SM2320B	mg/L	mg/L	Analyst: JL		Batch: 2144025	
Total Alkalinity (as CaCO ₃ at pH 4.5)	710	10.0	1	10/29/21	10/29/21	
Wet Chemistry by 9050A/2510B	uS/cm	uS/cm	Analyst: JL		Batch: 2144068	
Specific Conductance (@ 25 C)	61800	10.0	1	10/29/21	10/29/21	
Dissolved Metals by EPA 6010C	mg/L	mg/L	Analyst: RKS		Batch: 2144066	
Calcium	336	50.0	50	10/29/21	10/30/21	
Iron	ND	100	50	10/29/21	10/30/21	
Magnesium	91.4	50.0	50	10/29/21	10/30/21	
Potassium	83.2	50.0	50	10/29/21	10/30/21	
Sodium	15900	400	200	10/29/21	10/30/21	
Sodium Absorption Ratio (CALC)	198		1	11/01/21	11/01/21	
Anions by EPA 300.0/9056A	mg/L	mg/L	Analyst: IY		Batch: 2144064	
Fluoride	ND	125	500	10/29/21	10/29/21	
Chloride	23600	1000	500	10/29/21	10/29/21	
Nitrite-N	ND	125	500	10/29/21 11:02	10/29/21 11:32	
Nitrate-N	ND	125	500	10/29/21 11:02	10/29/21 11:32	
o-Phosphate-P	ND	125	500	10/29/21 11:02	10/29/21 11:32	
Sulfate	ND	1000	500	10/29/21	10/29/21	



QC Summary Data

Magna Energy Services	Project Name:	Kimbeto Wash 771	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	11/1/2021 5:53:56PM

Wet Chem/Gravimetric by SM2540C

Analyst: IY

Analyte	Result mg/L	Reporting Limit mg/L	Spike Level mg/L	Source Result mg/L	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2144069-BLK1)

Prepared: 10/30/21 Analyzed: 11/01/21

Total Dissolved Solids	ND	10.0
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LCS (2144069-BS1)

Prepared: 10/30/21 Analyzed: 11/01/21

Total Dissolved Solids	102	10.0	100	102	55-134
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Duplicate (2144069-DUP1)

Source: E110112-01

Prepared: 10/30/21 Analyzed: 11/01/21

Total Dissolved Solids	714	10.0	716	0.280	5
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QC Summary Data

Magna Energy Services	Project Name:	Kimbeto Wash 771	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	11/1/2021 5:53:56PM

Wet Chemistry by 9040C/4500H+B

Analyst: JL

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

LCS (2144067-BS1)	Prepared: 10/29/21 Analyzed: 10/29/21								
pH	7.92		8.00		99.5	98.75-101.25			
Duplicate (2144067-DUP1)	Source: E110145-01 Prepared: 10/29/21 Analyzed: 10/29/21								
pH	7.39			7.29		1.36	20		



QC Summary Data

Magna Energy Services	Project Name:	Kimbeto Wash 771	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	11/1/2021 5:53:56PM

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 (2144025-BS1)

Prepared: 10/28/21 Analyzed: 10/28/21

Total Alkalinity (as CaCO ₃ at pH 4.5)	280	10.0	250	112	70-130
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Duplicate (2144025-DUP1)

Source: E110110-01

Prepared: 10/28/21 Analyzed: 10/28/21

Total Alkalinity (as CaCO ₃ at pH 4.5)	283	10.0	294	3.81	20
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QC Summary Data

Magna Energy Services	Project Name:	Kimbeto Wash 771	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	11/1/2021 5:53:56PM

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 (2144068-BLK1)

Prepared: 10/29/21 Analyzed: 10/29/21

Specific Conductance (@ 25 C) ND 10.0

LCS (2144068-BS1)

Prepared: 10/29/21 Analyzed: 10/29/21

Specific Conductance (@ 25 C) 1430 10.0 1410 101 98-102

Duplicate (2144068-DUP1)

Source: E110145-01

Prepared: 10/29/21 Analyzed: 10/29/21

Specific Conductance (@ 25 C) 62100 10.0 61800 0.484 20



QC Summary Data

Magna Energy Services	Project Name:	Kimbeto Wash 771	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	11/1/2021 5:53:56PM

Dissolved Metals by EPA 6010C

Analyst: RKS

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

Blank (2144066-BLK1)

Prepared: 10/29/21 Analyzed: 10/30/21

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

LCS (2144066-BS1)

Prepared: 10/29/21 Analyzed: 10/30/21

Calcium	50.5	1.00	50.0	101	80-120
Iron	102	2.00	100	102	80-120
Magnesium	51.2	1.00	50.0	102	80-120
Potassium	5.36	1.00	5.00	107	80-120
Sodium	18.8	2.00	20.0	93.9	80-120

Matrix Spike (2144066-MS1)

Source: E110121-01

Prepared: 10/29/21 Analyzed: 10/30/21

Calcium	106	1.00	50.0	69.1	73.4	75-125	M2
Iron	119	2.00	100	8.61	110	75-125	
Magnesium	58.3	1.00	50.0	9.50	97.7	75-125	
Potassium	19.5	1.00	5.00	14.5	101	75-125	
Sodium	112	2.00	20.0	98.1	71.5	75-125	M2

Matrix Spike Dup (2144066-MSD1)

Source: E110121-01

Prepared: 10/29/21 Analyzed: 10/30/21

Calcium	109	1.00	50.0	69.1	80.4	75-125	3.25	20	
Iron	160	2.00	100	8.61	151	75-125	29.7	20	M1
Magnesium	61.6	1.00	50.0	9.50	104	75-125	5.40	20	
Potassium	21.1	1.00	5.00	14.5	134	75-125	7.97	20	M1
Sodium	118	2.00	20.0	98.1	99.0	75-125	4.78	20	



QC Summary Data

Magna Energy Services	Project Name:	Kimbeto Wash 771	Reported:
PO Box 3950	Project Number:	11181-0001	
Farmington NM, 87499	Project Manager:	Adam Kelly	11/1/2021 5:53:56PM

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 (2144064-BLK1)

Prepared: 10/28/21 Analyzed: 10/28/21

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 (2144064-BS1)

Prepared: 10/28/21 Analyzed: 11/01/21

Fluoride	2.60	0.250	2.50	104	90-110
Chloride	24.8	2.00	25.0	99.0	90-110
Nitrite-N	2.51	0.250	2.50	100	90-110
Nitrate-N	2.52	0.250	2.50	101	90-110
o-Phosphate-P	12.3	0.250	12.5	98.0	90-110
Sulfate	24.2	2.00	25.0	96.7	90-110

LCS Dup (2144064-BSD1)

Prepared: 10/28/21 Analyzed: 11/01/21

Fluoride	2.59	0.250	2.50	104	90-110	0.0385	20
Chloride	24.7	2.00	25.0	98.9	90-110	0.0525	20
Nitrite-N	2.51	0.250	2.50	100	90-110	0.00	20
Nitrate-N	2.53	0.250	2.50	101	90-110	0.198	20
o-Phosphate-P	12.3	0.250	12.5	98.0	90-110	0.00	20
Sulfate	24.2	2.00	25.0	96.7	90-110	0.0455	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:	Kimbeto Wash 771	
PO Box 3950	Project Number:	11181-0001	Reported:
Farmington NM, 87499	Project Manager:	Adam Kelly	11/01/21 17:53

H5 pH is specified to be performed in the field within 15 minutes of sampling. The sample was performed as quickly as possible.

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

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.



Project Information

Chain of Custody

Page 1 of 1

[illegible]

Page 13 of 14

Envirotech Analytical Laboratory

Printed: 10/28/2021 7:17:34PM

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:	10/28/21 10:41	Work Order ID:	E110145
Phone:	(505) 860-6100	Date Logged In:	10/28/21 19:09	Logged In By:	Alexa Michaels
Email:	ak.magna@digii.net	Due Date:	10/29/21 17:00 (1 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 times are not included in this discussion.

Carrier: Magna EnergyComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

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 temperature 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: 17.3°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? Yes
 - 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? No

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.

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 60307

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 60307
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	None	11/5/2021