

Epic Energy 7415 East Main Farmington NM, 87402	Project Name: Lindrith Project Number: 18012-0006 Project Manager: Jimmie McKinney	Reported: 05/31/19 14:23
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Lindrith 19 - API# 30-039-06620
P905076-02 (Water)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Wet Chem/Gravimetric

Total Dissolved Solids	620	10.0	mg/L	1	1921021	05/23/19	05/30/19	SM2540C	
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Dissolved Metals by 6010

Calcium	1.02	1.00	mg/L	1	1922002	05/28/19	05/29/19	EPA 6010C	
Iron	ND	2.00	mg/L	1	1922002	05/28/19	05/29/19	EPA 6010C	
Magnesium	ND	1.00	mg/L	1	1922002	05/28/19	05/29/19	EPA 6010C	
Potassium	ND	1.00	mg/L	1	1922002	05/28/19	05/29/19	EPA 6010C	
Sodium	225	2.00	mg/L	1	1922002	05/28/19	05/29/19	EPA 6010C	
Sodium Absorption Ratio	60.6		N/A	1	1922034	05/31/19	05/31/19	[CALC]	

Anions by 300.0/9056A

Chloride	3.45	2.00	mg/L	1	1921024	05/23/19	05/23/19	EPA 300.0/9056A	
Fluoride	1.64	0.250	mg/L	1	1921024	05/23/19	05/23/19	EPA 300.0/9056A	
Nitrate-N	ND	0.250	mg/L	1	1921024	05/23/19 14:40	05/23/19 18:05	EPA 300.0/9056A	
Nitrite-N	ND	0.250	mg/L	1	1921024	05/23/19 14:40	05/23/19 18:05	EPA 300.0/9056A	
o-Phosphate-P	ND	0.250	mg/L	1	1921024	05/23/19 14:40	05/23/19 18:05	EPA 300.0/9056A	
Sulfate	110	2.00	mg/L	1	1921024	05/23/19	05/23/19	EPA 300.0/9056A	

Wet Chemistry

Total Alkalinity (as CaCO ₃ at pH 4.5)	353	10.0	mg/L	1	1922024	05/30/19	05/31/19	SM2320B	
Specific Conductance (@ 25 C)	1050	10.0	uS/cm	1	1922033	05/31/19	05/31/19	9050A/2510 B	
pH @25°C	10.1		pH Units	1	1922015	05/30/19 10:11	05/30/19 14:51	9040C/4500 H+B	H1

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Epic Energy
 7415 East Main
 Farmington NM. 87402

 Project Name: Lindrith
 Project Number: 18012-0006
 Project Manager: Jimmie McKinney

Reported:
 05/31/19 14:23

Lindrith 29E - API# 30-039-23381
P905076-01 (Water)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Wet Chem/Gravimetric

Total Dissolved Solids	1140	10.0	mg/L	1	1921021	05/23/19	05/30/19	SM2540C	
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Dissolved Metals by 6010

Calcium	1.28	1.00	mg/L	1	1922002	05/28/19	05/29/19	EPA 6010C	
Iron	ND	2.00	mg/L	1	1922002	05/28/19	05/29/19	EPA 6010C	
Magnesium	ND	1.00	mg/L	1	1922002	05/28/19	05/29/19	EPA 6010C	
Potassium	1.60	1.00	mg/L	1	1922002	05/28/19	05/29/19	EPA 6010C	
Sodium	377	2.00	mg/L	1	1922002	05/28/19	05/29/19	EPA 6010C	
Sodium Absorption Ratio	90.4		N/A	1	1922034	05/31/19	05/31/19	[CALC]	

Anions by 300.0/9056A

Chloride	6.80	4.00	mg/L	2	1921024	05/23/19	05/23/19	EPA 300.0 9056A	
Fluoride	1.74	0.500	mg/L	2	1921024	05/23/19	05/23/19	EPA 300.0 9056A	
Nitrate-N	ND	0.500	mg/L	2	1921024	05/23/19 14:40	05/23/19 17:42	EPA 300.0 9056A	
Nitrite-N	ND	0.500	mg/L	2	1921024	05/23/19 14:40	05/23/19 17:42	EPA 300.0 9056A	
o-Phosphate-P	ND	0.500	mg/L	2	1921024	05/23/19 14:40	05/23/19 17:42	EPA 300.0 9056A	
Sulfate	437	4.00	mg/L	2	1921024	05/23/19	05/23/19	EPA 300.0 9056A	

Wet Chemistry

Total Alkalinity (as CaCO ₃ at pH 4.5)	336	10.0	mg/L	1	1922024	05/30/19	05/31/19	SM2320B	
Specific Conductance (@ 25°C)	1780	10.0	uS/cm	1	1922033	05/31/19	05/31/19	9050A 2510 B	
pH @ 25°C	10.1		pH Units	1	1922015	05/30/19 10:11	05/30/19 14:51	9040C 4500 H-B	H1

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Epic Energy
7415 East Main
Farmington NM, 87402

Project Name: Lindrith
Project Number: 18012-0006
Project Manager: Jimmie McKinney

Reported:
05/31/19 14:23

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Lindrith 29E - API# 30-039-23381	P905076-01A	Aqueous	05/23/19	05/23/19	Poly 500mL
Lindrith I9 - API# 30-039-06620	P905076-02A	Aqueous	05/23/19	05/23/19	Poly 500mL

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Analytical Report

Report Summary

Client: Epic Energy

Samples Received: 5/23/2019

Job Number: 18012-0006 Work

Order: P905076 Project Name/

Location: Lindrith 29E - API#

30-039-23381 & Lindrith 19 -

API# 30-039-06620 (Water)

Report Reviewed By:



Walter Hinchman, Laboratory Director

Date: 5/31/19



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

Epic Energy
 7415 East Main
 Farmington NM, 87402

Project Name: Lindrith
 Project Number: 18012-0006
 Project Manager: Jimmie McKinney

Reported:
 05/31/19 14:23

Wet Chem/Gravimetric - 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 1921021 - Wet Chemistry Preparation

Blank (1921021-BLK1)

Prepared: 05/22/19 1 Analyzed: 05/30/19 1

Total Dissolved Solids	ND	10.0	mg/L
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LCS (1921021-BS1)

Prepared: 05/22/19 1 Analyzed: 05/30/19 1

Total Dissolved Solids	93.0	10.0	mg/L	100	93.0	50-150
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Duplicate (1921021-DUP1)

Source: P905061-02

Prepared: 05/22/19 1 Analyzed: 05/30/19 1

Total Dissolved Solids	1190	10.0	mg/L	1170	2.29	5
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Epic Energy
 7415 East Main
 Farmington NM, 87402

Project Name: Lindrith
 Project Number: 18012-0006
 Project Manager: Jimmie McKinney

Reported:
 05/31/19 14:23

Dissolved Metals by 6010 - 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 1922002 - Metals Water Hotblock Digestion EPA 3010A/200.2

Blank (1922002-BLK1)

Prepared: 05/28/19 0 Analyzed: 05/29/19 2

Calcium	ND	1.00	mg/L
Iron	ND	2.00	"
Magnesium	ND	1.00	"
Potassium	ND	1.00	"
Sodium	ND	2.00	"

LCS (1922002-BS1)

Prepared: 05/28/19 0 Analyzed: 05/29/19 2

Calcium	49.7	1.00	mg/L	50.0	99.4	80-120
Iron	96.8	2.00	"	100	96.8	80-120
Magnesium	50.8	1.00	"	50.0	102	80-120
Potassium	5.31	1.00	"	5.00	106	80-120
Sodium	19.0	2.00	"	20.0	94.9	80-120

Matrix Spike (1922002-MS1)

Source: P905077-02

Prepared: 05/28/19 0 Analyzed: 05/29/19 2

Calcium	66.4	1.00	mg/L	50.0	19.1	94.7	75-125
Iron	94.2	2.00	"	100	ND	94.2	75-125
Magnesium	56.0	1.00	"	50.0	2.99	106	75-125
Potassium	9.65	1.00	"	5.00	3.06	132	75-125
Sodium	265	2.00	"	20.0	247	88.0	75-125

SPK1

Matrix Spike Dup (1922002-MSD1)

Source: P905077-02

Prepared: 05/28/19 0 Analyzed: 05/29/19 2

Calcium	67.0	1.00	mg/L	50.0	19.1	95.9	75-125	0.839	20
Iron	95.2	2.00	"	100	ND	95.2	75-125	1.05	20
Magnesium	54.0	1.00	"	50.0	2.99	102	75-125	3.58	20
Potassium	9.10	1.00	"	5.00	3.06	121	75-125	5.80	20
Sodium	255	2.00	"	20.0	247	38.5	75-125	3.81	20

SPK2

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Epic Energy	Project Name:	Lindrith	Reported: 05/31/19 14:23
7415 East Main	Project Number:	18012-0006	
Farmington NM, 87402	Project Manager:	Jimmie McKinney	

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 1921024 - Anion Extraction EPA 300.0/9056A

Blank (1921024-BLK1)

Prepared & Analyzed: 05/23/19 1

Fluoride	ND	0.250	mg/L
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 (1921024-BS1)

Prepared & Analyzed: 05/23/19 1

Fluoride	2.73	0.250	mg/L	2.50	109	90-110
Chloride	27.2	2.00	"	25.0	109	90-110
Nitrite-N	2.71	0.250	"	2.50	108	90-110
Nitrate-N	2.66	0.250	"	2.50	106	90-110
o-Phosphate-P	12.8	0.250	"	12.5	102	90-110
Sulfate	25.6	2.00	"	25.0	102	90-110

LCS Dup (1921024-BSD1)

Prepared: 05/23/19 1 Analyzed: 05/24/19 1

Fluoride	2.52	0.250	mg/L	2.50	101	90-110	8.08	20
Chloride	27.4	2.00	"	25.0	110	90-110	0.649	20
Nitrite-N	2.71	0.250	"	2.50	108	90-110	0.111	20
Nitrate-N	2.68	0.250	"	2.50	107	90-110	0.712	20
o-Phosphate-P	12.9	0.250	"	12.5	103	90-110	0.897	20
Sulfate	25.8	2.00	"	25.0	103	90-110	0.666	20

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Epic Energy	Project Name:	Lindrith	Reported: 05/31/19 14:23
7415 East Main	Project Number:	18012-0006	
Farmington NM. 87402	Project Manager:	Jimmie McKinney	

Wet Chemistry - 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 1922015 - Wet Chemistry Preparation

LCS (1922015-BS1)				Prepared & Analyzed: 05/30/19 1						
pH	8.00		pH Units	8.00		100	98.75-101.25			
Duplicate (1922015-DUP1)				Source: P905061-02 Prepared & Analyzed: 05/30/19 1						
pH	6.47		pH Units	6.46		0.155	20			

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Epic Energy
 7415 East Main
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Project Name: Lindrith
 Project Number: 18012-0006
 Project Manager: Jimmie McKinney

Reported:
 05/31/19 14:23

Wet Chemistry - 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 1922024 - Wet Chemistry Preparation

LCS (1922024-BS1)

Prepared: 05/30/19 1 Analyzed: 05/31/19 0

Total Alkalinity (as CaCO ₃ at pH 4.5)	252	10.0	mg/L	250	101	70-130
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Duplicate (1922024-DUP1)

Source: P905076-02

Prepared: 05/30/19 1 Analyzed: 05/31/19 0

Total Alkalinity (as CaCO ₃ at pH 4.5)	353	10.0	mg/L	353	0.00	20
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Epic Energy
 7415 East Main
 Farmington NM. 87402

 Project Name: Lindrith
 Project Number: 18012-0006
 Project Manager: Jimmie McKinney

Reported:
 05/31/19 14:23

Wet Chemistry - 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 1922033 - Wet Chemistry Preparation
Blank (1922033-BLK1)

Prepared & Analyzed: 05/31/19 1

Specific Conductance (@ 25 C) ND 10.0 uS cm

LCS (1922033-BS1)

Prepared & Analyzed: 05/31/19 1

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

Duplicate (1922033-DUP1)
Source: P905075-01

Prepared & Analyzed: 05/31/19 1

Specific Conductance (@ 25 C) 132 10.0 uS cm 127 3.86 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.

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Epic Energy	Project Name:	Lindrith	
7415 East Main	Project Number:	18012-0006	Reported:
Farmington NM, 87402	Project Manager:	Jimmie McKinney	05/31/19 14:23

Notes and Definitions

SPK2	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to native analyte concentration at 4 times or greater than the spike concentration.
SPK1	The spike recovery is outside of quality control limits.
H1	Sample was received after regulatory hold-time exceeded for target analyte.
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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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. Sampled by: <u>Lance Bickham</u>						<u>V-S ice in cooler</u> 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) <u>Lance Bickham</u>	Date <u>5/23/19</u>	Time <u>16:23</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5/23/19</u>	Time <u>16:23</u>	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		
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.							