


QB Energy

Sample Delivery Group: L1861971
Samples Received: 05/22/2025
Project Number:
Description: OP15 Investigation
Site: OP15 PAD
Report To: Jake J. / Brett M. / Blair R. / Andy V.
143 Diamond Avenue
Parachute, CO 81635

Entire Report Reviewed By:



Chris Ward
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
20250520-OUBG-(OP15-W)@5-6 L1861971-01	6
20250520-OUBG-(OP15-W)@10-11 L1861971-02	7
20250520-OUBG-(OP15-W)@15-16 L1861971-03	8
20250520-OUBG-(OP15-W)@19-20 L1861971-04	9
20250520-OUBG-(OP15-E1)@5-6 L1861971-05	10
20250520-OUBG-(OP15-E1)@10-11 L1861971-06	11
20250520-OUBG-(OP15-E1)@15-16 L1861971-07	12
20250520-OUBG-(OP15-E1)@19-20 L1861971-08	13
20250520-OUBG-(OP15-E2)@5-6 L1861971-09	14
20250520-OUBG-(OP15-E2)@10-11 L1861971-10	15
20250520-OUBG-(OP15-E2)@15-16 L1861971-11	16
20250520-OUBG-(OP15-E2)@19-20 L1861971-12	17
Gl: Glossary of Terms	18
Al: Accreditations & Locations	19
Sc: Sample Chain of Custody	20



SAMPLE SUMMARY

20250520-OUBG-(OP15-W)@5-6 L1861971-01

Collected by Alex Fenske
 Collected date/time 05/20/25 13:01
 Received date/time 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523751	1	05/30/25 03:03	05/30/25 03:03	RLS	Mt. Juliet, TN

20250520-OUBG-(OP15-W)@10-11 L1861971-02

Collected by Alex Fenske
 Collected date/time 05/20/25 13:23
 Received date/time 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523739	1	05/30/25 04:08	05/30/25 04:08	RLS	Mt. Juliet, TN

20250520-OUBG-(OP15-W)@15-16 L1861971-03

Collected by Alex Fenske
 Collected date/time 05/20/25 13:46
 Received date/time 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523739	1	05/30/25 04:10	05/30/25 04:10	RLS	Mt. Juliet, TN

20250520-OUBG-(OP15-W)@19-20 L1861971-04

Collected by Alex Fenske
 Collected date/time 05/20/25 14:14
 Received date/time 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523740	1	05/30/25 02:30	05/30/25 02:30	RLS	Mt. Juliet, TN

20250520-OUBG-(OP15-E1)@5-6 L1861971-05

Collected by Alex Fenske
 Collected date/time 05/20/25 09:22
 Received date/time 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523751	1	05/30/25 03:09	05/30/25 03:09	RLS	Mt. Juliet, TN

20250520-OUBG-(OP15-E1)@10-11 L1861971-06

Collected by Alex Fenske
 Collected date/time 05/20/25 09:46
 Received date/time 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523750	1	05/31/25 13:12	05/31/25 13:12	JTM	Mt. Juliet, TN

20250520-OUBG-(OP15-E1)@15-16 L1861971-07

Collected by Alex Fenske
 Collected date/time 05/20/25 10:10
 Received date/time 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523751	1	05/30/25 03:10	05/30/25 03:10	RLS	Mt. Juliet, TN

20250520-OUBG-(OP15-E1)@19-20 L1861971-08

Collected by Alex Fenske
 Collected date/time 05/20/25 10:36
 Received date/time 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523739	1	05/30/25 04:11	05/30/25 04:11	RLS	Mt. Juliet, TN



SAMPLE SUMMARY

20250520-OUBG-(OP15-E2)@5-6 L1861971-09

Collected by: Alex Fenske
 Collected date/time: 05/20/25 11:23
 Received date/time: 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523739	1	05/30/25 04:13	05/30/25 04:13	RLS	Mt. Juliet, TN

20250520-OUBG-(OP15-E2)@10-11 L1861971-10

Collected by: Alex Fenske
 Collected date/time: 05/20/25 11:40
 Received date/time: 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523739	1	05/30/25 04:15	05/30/25 04:15	RLS	Mt. Juliet, TN

20250520-OUBG-(OP15-E2)@15-16 L1861971-11

Collected by: Alex Fenske
 Collected date/time: 05/20/25 12:03
 Received date/time: 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523751	1	05/30/25 03:12	05/30/25 03:12	RLS	Mt. Juliet, TN

20250520-OUBG-(OP15-E2)@19-20 L1861971-12

Collected by: Alex Fenske
 Collected date/time: 05/20/25 12:32
 Received date/time: 05/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2523740	1	05/30/25 02:32	05/30/25 02:32	RLS	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Gl

7 Al

8 Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward
Project Manager



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	33.8		1	05/30/2025 03:03	WG2523751

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Gl
- ⁷Al
- ⁸Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	10.9		1	05/30/2025 04:08	WG2523739

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	10.4		1	05/30/2025 04:10	WG2523739

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	10.6		1	05/30/2025 02:30	WG2523740

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	23.2		1	05/30/2025 03:09	WG2523751

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.28		1	05/31/2025 13:12	WG2523750

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.19		1	05/30/2025 03:10	WG2523751

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.20		1	05/30/2025 04:11	WG2523739

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	34.2		1	05/30/2025 04:13	WG2523739

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.91		1	05/30/2025 04:15	WG2523739

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Gl

⁷ Al

⁸ Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.61		1	05/30/2025 03:12	WG2523751

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.19		1	05/30/2025 02:32	WG2523740

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

⁷Al

⁸Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Gl

⁷ Al

⁸ Sc

QB Energy Operating, LLC
143 Diamond Avenue
Parachute, CO 81635

Billing Information:
SAME AS LEFT

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___



12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859



Report to:
Blair Rollins

Email To:
brollins@qb-energy.com

Project Description:
 OP15 Investigation

City/State
 Collected: **Piceance Crk, CO**

Please Circle:
 PT MI CT ET

Phone: **(970) 640-6919**

Client Project #

Lab Project #

Collected by (print):
Alex Fenske

Site/Facility ID #
OP15 Pad

P.O. #

Collected by (signature):
Alex Fenske

Rush? (Lab MUST Be Notified)

Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #

Date Results Needed

Standard TAT

No.
 of
 Cntrs

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SAR											
20250520-OUBG-(OP15-W)@5-6	Grab	SS	5-6 ft	5/20/2025	13:01	2	X											
20250520-OUBG-(OP15-W)@10-11	Grab	SS	10-11 ft	5/20/2025	13:23	2	X											
20250520-OUBG-(OP15-W)@15-16	Grab	SS	15-16 ft	5/20/2025	13:44	2	X											
20250520-OUBG-(OP15-W)@19-20	Grab	SS	19-20 ft	5/20/2025	14:14	2	X											
20250520-OUBG-(OP15-E1)@5-6	Grab	SS	5-6 ft	5/20/2025	9:22	2	X											
20250520-OUBG-(OP15-E1)@10-11	Grab	SS	10-11 ft	5/20/2025	9:46	2	X											
20250520-OUBG-(OP15-E1)@15-16	Grab	SS	15-16 ft	5/20/2025	10:10	2	X											
20250520-OUBG-(OP15-E1)@19-20	Grab	SS	19-20 ft	5/20/2025	10:36	2	X											
20250520-OUBG-(OP15-E2)@5-6	Grab	SS	5-6 ft	5/20/2025	11:23	2	X											
20250520-OUBG-(OP15-E2)@10-11	Grab	SS	10-11 ft	5/20/2025	11:40	2	X											

SDG # **U1861971**

H036

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Remarks

Sample # (lab only)

-01
 -02
 -03
 -04
 -05
 -06
 -07
 -08
 -09
 -10

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other _____

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 IF Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)

Alex Fenske

Date:

5/20/25

Time:

16:30

Received by: (Signature)

[Signature] 5/21

Trip Blank Received: Yes/No

HCL/MeOH
 TBR

Relinquished by: (Signature)

[Signature]

Date:

5/21/25

Time:

17:00

Received by: (Signature)

[Signature]

Temp: _____ °C Bottles Received:

24802

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

5-22-25

Time:

09:00

Received for lab by: (Signature)

Date:

5-22-25 09:00

Hold:

Condition:

NCF /

QB Energy Operating, LLC
143 Diamond Avenue
Parachute, CO 81635

Billing Information:
SAME AS LEFT

Pres Chk

Chain of Custody Page ___ of ___



12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859



Report to:
Blair Rollins

Email To:
brollins@qb-energy.com

Project Description:
OP15 Investigation

City/State Collected: **Piceance Crk, CO**
 Please Circle: PT MI CT ET

Phone: **(970) 640-6919**

Client Project #

Lab Project #

Collected by (print):
Alex Fenske

Site/Facility ID #
OP15 Pad

P.O. #

Collected by (signature):
Alex Fenske

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Quote #
 Date Results Needed
Standard TAT

Immediately Packed on Ice N ___ Y X

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	SAR	Analysis / Container / Preservative	Chain of Custody
20250520-OUBG-(OP15-E2)@15-16	Grab	SS	15-16 ft	5/20/2025	12:03	2	X		11
20250520-OUBG-(OP15-E2)@19-20	Grab	SS	19-20 ft	5/20/2025	12:32	2	X		12

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
 Samples returned via:
 ___ UPS ___ FedEx ___ Courier

Sample Receipt Checklist
 COC Seal Present/Intact: NP Y ___ N ___
 COC Signed/Accurate: Y ___ N ___
 Bottles arrive intact: Y ___ N ___
 Correct bottles used: Y ___ N ___
 Sufficient volume sent: Y ___ N ___
 If Applicable
 VOA Zero Headspace: ___ Y ___ N ___
 Preservation Correct/Checked: ___ Y ___ N ___
 RAD Screen <0.5 mR/hr: Y ___ N ___

Relinquished by: (Signature)
Alex Fenske

Date: 5/20/25 Time: 16:30

Received by: (Signature) *[Signature]* 5/21

Trip Blank Received: Yes/No
 HCL/MeOH TBR

Relinquished by: (Signature) *[Signature]*

Date: 5/20/25 Time: 1:20

Received by: (Signature)

Temp: °C Bottles Received: 24-802

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: 5-20-25 Time: 0900

Received for lab by: (Signature) *[Signature]*

Date: 5-20-25 Time: 0900

Hold: Condition: NCF / 0

