



**Julie Weisz**  
**Energy Laboratories**  
**400 West Boxelder Road**  
**Gillette, WY 82718**  
**USA**

**WP-318**  **Final Report**

**WatR™ Pollution Proficiency Testing**

**WatR™ Pollution Study**

**Open Date: 07/19/21**

**Close Date: 09/02/21**

**Report Issued Date: 09/07/21**



A Waters Company

September 7, 2021

Julie Weisz  
Energy Laboratories  
400 West Boxelder Road  
Gillette, WY 82718

Enclosed is your final report for ERA's WP-318 WatR™ Pollution Proficiency Testing (PT) study. Your final report includes an evaluation of all results submitted by your laboratory to ERA.

Data Evaluation Protocols: All analytes in ERA's WP-318 WatR™ Pollution Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the most current TNI Fields of Proficiency Testing (FoPT) table the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the table and the evaluation criteria contained in the 2016 TNI Standard, Volume 3. If the analyte is not included in the TNI FoPT table, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 730002268).

Corrective Action Help: As part of your accreditation(s), you may be required to identify the root cause of any "Not Acceptable" results, implement the necessary corrective actions, and then satisfy your PT requirements by participating in a Supplemental (QuiK™ Response) or future ERA PT study. ERA's technical staff is available to help your laboratory resolve any technical issues that may be impairing your PT performance and possibly affecting your routine data quality. Our laboratory and technical staff have many years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be useful in helping you work through your technical issues.

Thank you for your participation in ERA's WP-318 WatR™ Pollution Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink, appearing to read "Matthew Seebeck".

Matthew Seebeck  
Quality Officer

attachments



A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type
No Recipients Selected		



A Waters Company

# WP-318 Definitions & Study Discussion

Study Dates: 07/19/21 - 09/02/21

Report Issued: 09/07/21

## WP Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Values are compliant with the most current TNI Fields of Proficiency Testing (FoPT) table. A parameter not added to the standard is given an Assigned Value of "< PTRL" per the guidelines contained in the 2016 TNI Standard. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current TNI FoPT table or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

- Acceptable = Reported Value falls within the Acceptance Limits.
- Not Acceptable = Reported Value falls outside the Acceptance Limits.
- No Evaluation = Reported Value cannot be evaluated.
- Not Reported = No Value reported.

The Method Description is the method the laboratory reported to ERA.

## WP Study Discussion

ERA's WP-318 WatR™Pollution Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2016 TNI Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) table.

ERA's WP-318 WatR™Pollution study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes met the acceptance criteria contained in the 2016 TNI Standard and the criteria contained in the most current TNI FoPT table.

All activities associated with this proficiency testing study were performed by Waters/ERA with the exception of those noted below. The following physical samples/products were manufactured for Waters/ERA by a subcontractor:

Microbiology products with the following catalog numbers:  
880, 935, 079, 077, 080, 595, 595A, 576, 576A

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.

ERA's WP-318 WatR™Pollution study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's WatR™Pollution Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.





A Waters Company

# WP-318 Laboratory Exception Report

Julie Weisz  
QA Officer  
Energy Laboratories  
400 West Boxelder Road  
Gillette, WY 82718  
(307) 686-7175-2044

EPA ID: WY00006  
ERA Customer Number: E351102  
Report Issued: 09/07/21  
Study Dates: 07/19/21 - 09/02/21

## Not Acceptable Evaluations

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
------------------	---------	-------	----------------	----------------	-------------------	------------------------	--------------------

**WP Total Petroleum Hydrocarbons (TPH) in Water (cat# 642, lot# P318-642)**

1853	TPH (Gravimetric)	mg/L	24.7	90.0	42.1 - 130	Not Acceptable	EPA 1664A 1999
------	-------------------	------	------	------	------------	----------------	----------------



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com



Study # : WP-318



# Final Report Results For Laboratory Energy Laboratories

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Study # : WP-318





# Final Evaluation Report

## Study: **WP-318**

ERA Customer Number: **E351102**

Laboratory Name: **Energy Laboratories**

## Inorganic Results

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Study # : WP-318





A Waters Company

# WP-318 Final Evaluation Report

Julie Weisz  
QA Officer  
Energy Laboratories  
400 West Boxelder Road  
Gillette, WY 82718  
(307) 686-7175-2044

EPA ID:  
ERA Customer Number:  
Report Issued:  
Study Dates:

WY00006  
E351102  
09/07/21  
07/19/21 - 09/02/21

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
------------------	---------	-------	----------------	----------------	-------------------	------------------------	--------------------	---------------	---------	------------	--------------------------	--------------

### WP Minerals (cat# 581, lot# P318-506)

1505	Alkalinity as CaCO <sub>3</sub>	mg/L	92.5	93.6	79.6 - 108	Acceptable	SM 2320 B-2011 2011	7/29/2021	-0.256	93.5	3.82	Julie Weisz
1575	Chloride	mg/L	76.3	72.5	63.3 - 81.9	Acceptable	EPA 300.0 2.1 1993	8/9/2021	0.943	73.7	2.75	Julie Weisz
1610	Conductivity at 25°C	µmhos/cm	503	505	455 - 556	Acceptable	SM 2510 B-2011 2011	7/23/2021	0.0375	502	13.7	Julie Weisz
1730	Fluoride	mg/L	3.52	3.62	2.93 - 4.16	Acceptable	EPA 300.0 2.1 1993	8/9/2021	-0.454	3.62	0.222	Julie Weisz
1125	Potassium	mg/L		29.3	23.4 - 35.2	Not Reported				29.5	1.39	
1155	Sodium	mg/L		88.0	70.4 - 106	Not Reported				88.7	4.56	
2000	Sulfate	mg/L	27.5	26.9	21.6 - 31.2	Acceptable	EPA 300.0 2.1 1993	8/9/2021	0.263	27.0	1.88	Julie Weisz
1955	Total Dissolved Solids at 180°C	mg/L		379	334 - 424	Not Reported				378	16.6	
1950	Total Solids at 105°C	mg/L		395	350 - 440	Not Reported				397	20.6	

### WP pH (cat# 577, lot# P318-977)

1900	pH	S.U.	7.23	7.24	7.04 - 7.44	Acceptable	SM 4500-H+ B-2011 2011	7/23/2021	-0.867	7.27	0.0497	Julie Weisz
------	----	------	------	------	-------------	------------	------------------------	-----------	--------	------	--------	-------------

### WP Solids (cat# 241, lot# P318-499)

1960	Total Suspended Solids	mg/L	67.4	75.7	61.5 - 84.6	Acceptable	SM 2540 D-2011 2011	8/4/2021	-1.52	73.1	3.72	Julie Weisz
1955	Total Dissolved Solids at 180°C	mg/L	274	262	217 - 307	Acceptable	SM 2540 C-2011 2011	8/4/2021	0.882	260	15.5	Julie Weisz
1950	Total Solids at 105°C	mg/L		339	294 - 384	Not Reported				342	21.9	

### WP Simple Nutrients (cat# 584, lot# P318-505)

1515	Ammonia as N	mg/L		18.2	14.7 - 21.6	Not Reported				18.3	0.949	
1820	Nitrate + Nitrite as N	mg/L		6.94	5.73 - 8.09	Not Reported				6.94	0.363	
1810	Nitrate as N	mg/L	7.24	6.94	5.68 - 8.17	Acceptable	EPA 300.0 2.1 1993	8/9/2021	0.779	6.94	0.391	Julie Weisz
1870	ortho-Phosphate as P	mg/L		3.07	2.61 - 3.53	Not Reported				3.08	0.185	

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Study #: WP-318







A Waters Company

# WP-318 Final Evaluation Report

Julie Weisz  
QA Officer  
Energy Laboratories  
400 West Boxelder Road  
Gillette, WY 82718  
(307) 686-7175-2044

EPA ID:  
ERA Customer Number:  
Report Issued:  
Study Dates:

WY00006  
E351102  
09/07/21  
07/19/21 - 09/02/21

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
------------------	---------	-------	----------------	----------------	-------------------	------------------------	--------------------	---------------	---------	------------	--------------------------	--------------

**WP Nitrite (cat# 888, lot# P318-770)**

1840	Nitrite as N	mg/L	2.47	2.64	2.27 - 3.02	Acceptable	EPA 300.0 2.1 1993	8/9/2021	-1.14	2.64	0.151	Julie Weisz
------	--------------	------	------	------	-------------	------------	--------------------	----------	-------	------	-------	-------------

**WP Demand (cat# 578, lot# P318-516)**

1530	BOD	mg/L	122	119	64.3 - 174	Acceptable	SM 5210 B-2011 2011	8/6/2021	0.153	119	19.5	Julie Weisz
1555	CBOD	mg/L	128	108	50.5 - 165	Acceptable	SM 5210 B-2011 2011	8/6/2021	0.752	113	20.1	Julie Weisz
1565	COD	mg/L	174	194	156 - 225	Acceptable	HACH 8000 VIS	8/6/2021	-1.38	192	13.3	Julie Weisz
2040	TOC	mg/L		76.7	64.4 - 88.2	Not Reported				76.3	4.66	

**WP Oil & Grease Concentrate (cat# 4120, lot# P318-4122)**

1803	n-Hexane Extractable Material(O&G)(Grav)	mg/L	42.8	48.8	31.2 - 59.7	Acceptable	EPA 1664A 1999	7/28/2021	-0.546	45.6	5.05	David Bowles
------	--	------	------	------	-------------	------------	----------------	-----------	--------	------	------	--------------

**WP Turbidity (cat# 893, lot# P318-777)**

2055	Turbidity	NTU	5.33	5.27	4.03 - 6.48	Acceptable	SM 2130 B-2011 2011	7/28/2021	1.00	5.03	0.297	Julie Weisz
------	-----------	-----	------	------	-------------	------------	---------------------	-----------	------	------	-------	-------------

**WP Acidity (cat# 885, lot# P318-915)**

1500	Acidity as CaCO3	mg/L	1253	1390	1250 - 1530	Acceptable	SM 2310 B-2011 2011	7/29/2021	-2.17	1380	57.0	Julie Weisz
------	------------------	------	------	------	-------------	------------	---------------------	-----------	-------	------	------	-------------

**WP Bromide (cat# 887, lot# P318-769)**

1540	Bromide	mg/L	6.28	5.85	4.88 - 6.83	Acceptable	EPA 300.0 2.1 1993	8/9/2021	0.937	5.94	0.365	Julie Weisz
------	---------	------	------	------	-------------	------------	--------------------	----------	-------	------	-------	-------------

**WP Total Residual Chlorine (cat# 587, lot# P318-501)**

1945	Free Residual Chlorine	mg/L		1.21	0.898 - 1.44	Not Reported				1.16	0.110	
1940	Total Residual Chlorine	mg/L	1.22	1.25	0.927 - 1.49	Acceptable	SM 4500-Cl G-2011 2011	8/3/2021	0.428	1.19	0.0730	Julie Weisz



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.



# Final Evaluation Report

## Study: **WP-318**

ERA Customer Number: **E351102**

Laboratory Name: **Energy Laboratories**

## Microbiology Results

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Study # : WP-318



A Waters Company

**Julie Weisz**  
**QA Officer**  
**Energy Laboratories**  
**400 West Boxelder Road**  
**Gillette, WY 82718**  
**(307) 686-7175-2044**

**EPA ID:**  
**ERA Customer Number:**  
**Report Issued:**  
**Study Dates:**

**WY00006**  
**E351102**  
**09/07/21**  
**07/19/21 - 09/02/21**

# WP-318 Final Evaluation Report

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
------------------	---------	-------	----------------	----------------	-------------------	------------------------	--------------------	---------------	---------	------------	--------------------------	--------------

**WP WasteWatR™ Coliform MicrobE™ (cat# 576, lot# P318-083)**

2500	Total Coliforms (MF)	CFU/100mL		1120	448 - 2800	Not Reported				1120	393	
2530	Fecal Coliforms (MF)	CFU/100mL		697	261 - 1860	Not Reported				697	267	
2525	E.coli (MF)	CFU/100mL		1040	533 - 2020	Not Reported				1040	248	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	1936	1550	742 - 3250	Acceptable	SM 9223 B (Colilert-18 Quanti-Tray)-2004 2004	7/28/2021	0.0367	1550	417	Julie Weisz
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL	1300	1080	527 - 2200	Acceptable	Colilert®-18 (Fecal Coliforms) 2010	7/28/2021	0.0335	1080	279	Julie Weisz
2525	E.coli (MPN-Multiple Well)	MPN/100mL	1936	1550	743 - 3230	Acceptable	SM 9223 B (Colilert-18 Quanti-Tray)-2004 2004	7/28/2021	0.0368	1550	415	Julie Weisz



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.



# Final Evaluation Report

## Study: **WP-318**

ERA Customer Number: **E351102**

Laboratory Name: **Energy Laboratories**

## Organic Results

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Study # : WP-318



A Waters Company

# WP-318 Final Evaluation Report

**Julie Weisz**  
**QA Officer**  
**Energy Laboratories**  
**400 West Boxelder Road**  
**Gillette, WY 82718**  
**(307) 686-7175-2044**

**EPA ID:**  
**ERA Customer Number:**  
**Report Issued:**  
**Study Dates:**

**WY00006**  
**E351102**  
**09/07/21**  
**07/19/21 - 09/02/21**

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
------------------	---------	-------	----------------	----------------	-------------------	------------------------	--------------------	---------------	---------	------------	--------------------------	--------------

**WP Total Organic Halides (TOX) (cat# 895, lot# P318-670)**

2045	Total Organic Halides (TOX)	µg/L	378	409	237 - 558	Acceptable	EPA 9020B 2 1994	8/26/2021	0.0266	377	24.9	David Bowles
------	-----------------------------	------	-----	-----	-----------	------------	------------------	-----------	--------	-----	------	--------------

**WP Total Petroleum Hydrocarbons (TPH) in Water (cat# 642, lot# P318-642)**

1853	TPH (Gravimetric)	mg/L	24.7	90.0	42.1 - 130	Not Acceptable	EPA 1664A 1999	7/23/2021	-3.33	64.1	11.8	Brandon Bowe
1853	TPH (IR)	mg/L		111	52.5 - 160	Not Reported				84.7	29.4	



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.



# CERTIFICATE OF RECOGNITION

ERA congratulates  
Energy Laboratories  
WP-318

For your participation and successful evaluation, we recognize the performance of this laboratory for achieving acceptable evaluation in the following standards.

Acidity	Bromide	Demand
Minerals	Nitrite	Oil & Grease Concentrate
pH	Simple Nutrients	Solids
Total Organic Halides (TOX)	Total Residual Chlorine	Turbidity
WasteWatR™ Coliform MicrobE™		



---

Matthew Seebeck  
Quality Officer

**Julie Weisz**  
**Energy Laboratories**  
**400 West Boxelder Road**  
**Gillette, WY 82718**  
**USA**

**WP-321**  **Final Report**

**WatR™ Pollution Proficiency Testing**

**WatR™ Pollution Study**

**Open Date: 10/15/2021**

**Close Date: 11/29/2021**

**Report Issued Date: 12/01/2021**



A Waters Company

December 1, 2021

Julie Weisz  
Energy Laboratories  
400 West Boxelder Road  
Gillette, WY 82718

Enclosed is your final report for ERA's WP-321 WatR™ Pollution Proficiency Testing (PT) study. Your final report includes an evaluation of all results submitted by your laboratory to ERA.

Data Evaluation Protocols: All analytes in ERA's WP-321 WatR™ Pollution Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the most current TNI Fields of Proficiency Testing (FoPT) table the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the table and the evaluation criteria contained in the 2016 TNI Standard, Volume 3. If the analyte is not included in the TNI FoPT table, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 730002268).

Corrective Action Help: As part of your accreditation(s), you may be required to identify the root cause of any "Not Acceptable" results, implement the necessary corrective actions, and then satisfy your PT requirements by participating in a Supplemental (Quik™ Response) or future ERA PT study. ERA's technical staff is available to help your laboratory resolve any technical issues that may be impairing your PT performance and possibly affecting your routine data quality. Our laboratory and technical staff have many years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be useful in helping you work through your technical issues.

Thank you for your participation in ERA's WP-321 WatR™ Pollution Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink, appearing to read "Matthew Seebeck", is written over a light blue horizontal line.

Matthew Seebeck  
Quality Officer

attachments







A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type
No Recipients Selected		



A Waters Company

# WP-321 Definitions & Study Discussion

Study Dates: 10/15/2021 - 11/29/2021

Report Issued: 12/01/2021

## WP Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Values are compliant with the most current TNI Fields of Proficiency Testing (FoPT) table. A parameter not added to the standard is given an Assigned Value of "< PTRL" per the guidelines contained in the 2016 TNI Standard. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current TNI FoPT table or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

- Acceptable = Reported Value falls within the Acceptance Limits.
- Not Acceptable = Reported Value falls outside the Acceptance Limits.
- No Evaluation = Reported Value cannot be evaluated.
- Not Reported = No Value reported.

The Method Description is the method the laboratory reported to ERA.

## WP Study Discussion

ERA's WP-321 WatR™Pollution Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2016 TNI Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) table.

ERA's WP-321 WatR™Pollution study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes met the acceptance criteria contained in the 2016 TNI Standard and the criteria contained in the most current TNI FoPT table.

All activities associated with this proficiency testing study were performed by Waters/ERA with the exception of those noted below. The following physical samples/products were manufactured for Waters/ERA by a subcontractor:

Microbiology products with the following catalog numbers:  
880, 935, 079, 077, 080, 595, 595A, 576, 576A

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data, however, due to a change in the TNI Drinking Water FoPT table effective October 1, 2021, there has been a change to the Uranium (Nat) mass analyte code and naming convention. The analyte code has been changed to 1184, formally 3055, and the analyte name has been changed to Uranium (mass), formally Uranium (Nat) mass.

ERA's WP-321 WatR™Pollution study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's WatR™Pollution Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.





A Waters Company

# WP-321 Laboratory Exception Report

**Julie Weisz**  
QA Officer  
Energy Laboratories  
400 West Boxelder Road  
Gillette, WY 82718  
(307) 686-7175-2044

<b>EPA ID:</b>	<b>WY00006</b>
<b>ERA Customer Number:</b>	<b>E351102</b>
<b>Report Issued:</b>	<b>12/01/2021</b>
<b>Study Dates:</b>	<b>10/15/2021 - 11/29/2021</b>

## Not Acceptable Evaluations

There were no Not Acceptable evaluations for this study.



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • [www.eraqc.com](http://www.eraqc.com)



Study # : WP-321



# Final Report Results For Laboratory Energy Laboratories

All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Study # : WP-321



# Final Evaluation Report

## Study: **WP-321**

ERA Customer Number: **E351102**

Laboratory Name: **Energy Laboratories**

## Organic Results



A Waters Company

# WP-321 Final Evaluation Report

**Julie Weisz**  
**QA Officer**  
**Energy Laboratories**  
**400 West Boxelder Road**  
**Gillette, WY 82718**  
**(307) 686-7175-2044**

**EPA ID:** WY00006  
**ERA Customer Number:** E351102  
**Report Issued:** 12/01/2021  
**Study Dates:** 10/15/2021 - 11/29/2021

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
------------------	---------	-------	----------------	----------------	-------------------	------------------------	--------------------	---------------	---------	------------	--------------------------	--------------

**WP Total Petroleum Hydrocarbons (TPH) in Water (cat# 642, lot# P321-642)**

1853	TPH (Gravimetric)	mg/L	94.5	120	56.9 - 173	Acceptable	EPA 1664A 1999	11/2/2021	-0.203	98.2	18.1	David Bowles
1853	TPH (IR)	mg/L		148	70.8 - 214	Not Reported				126	60.9	



All analytes except for 1,1-Biphenyl, 1,2-Diphenylhydrazine, 1,3-Dinitrobenzene, 2,3-Dichloroaniline, Acetophenone, Atrazine, Azobenzene, Benzaldehyde, Caprolactam, n-Decane and n-Octadecane in the Base/Neutrals, catalog # 833, are included in ERA's A2LA accreditation. Lab Code 1539.01.

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com



Study # : WP-321

# CERTIFICATE OF EXCELLENCE

In recognition of the quality of your laboratory in proficiency testing for

WP-321

Energy Laboratories

is issued this certificate of achievement by ERA. This laboratory has been recognized as a Laboratory of Excellence for achieving 100% acceptable data in this study which included 972 participating laboratories. This achievement is a demonstration of the superior quality of the laboratory in evaluation of the standards listed below.

Total Petroleum  
Hydrocarbons (TPH) in  
Water



---

Matthew Seebeck  
Quality Officer