



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

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

The section header consists of the text "WP-318" in a bold, green, sans-serif font on the left. In the center is a circular logo with a white border and a green background. Inside the circle is a white silhouette of a person's head and shoulders, facing right, with a white arrow pointing upwards and to the right. Below the circle is a small "TM" trademark symbol. To the right of the logo is the text "Final Report" in a bold, green, italicized, sans-serif font.

**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 |                      |                |



# 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 CaCO3             | 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.

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**

## 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:** WY00006  
**ERA Customer Number:** E351102  
**Report Issued:** 09/07/21  
**Study Dates:** 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

Minerals

pH

Total Organic Halides  
(TOX)

WasteWatR™ Coliform  
MicrobE™

Bromide

Nitrite

Simple Nutrients

Total Residual Chlorine

Demand

Oil & Grease  
Concentrate

Solids

Turbidity



---

Matthew Seebeck  
Quality Officer