



Donny Juarez
Energy Laboratories
2393 Salt Creek Hwy
Casper, WY 82601
USA

WS-294  **Final Report**

WatR™ Supply Proficiency Testing

WatR™ Supply Study

Open Date: 01/11/21

Close Date: 02/25/21

Report Issued Date: 03/01/21



A Waters Company

March 1, 2021

Donny Juarez
Energy Laboratories
2393 Salt Creek Hwy
Casper, WY 82601

Enclosed is your final report for ERA's WS-294 WatR™ Supply 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 WS-294 WatR™ Supply Proficiency Testing (PT) 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 WS-294 WatR™ Supply 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
Alabama	Benny Laughlin / 334-271-7775	All Analytes
ANAB	Zaneta Popovska / 414-501-5341	All Analytes
California ELAP	Christine Sotelo / 916-341-5175	All Analytes
Colorado	Ben Chouaf / 303-692-3045	All Analytes
EPA Region 8	Marcie Tidd / (303) 462-9476	All Analytes
Florida	Vanessa Soto / 904-791-1599	All Analytes
Idaho	Ernie Bader / 208-334-2235 x 290	All Analytes
Louisiana (WS)	Grant Aucoin / 225-219-5235	All Analytes
Montana	Russell Leu / 406-444-5259	All Analytes
Nebraska	Laurie Wieting / 402-471-8407	All Analytes
Nevada	Paige Menicucci / 775-687-9311	All Analytes
New Mexico (WS)	Bethany Anderson / 505-222-9552	All Analytes
Oregon	Travis Bartholomew / 503-693-4122	All Analytes
South Dakota	Stacy Ellwanger / 605-773-4757	All Analytes
Texas	Frank Jamison / (512) 239-3754	All Analytes
Utah	Cathy Mitchell / (801) 965-2588	All Analytes
Washington	Rebecca Wood / 360-871-8811	All Analytes



WS-294 Definitions & Study Discussion

Study Dates: 01/11/21 - 02/25/21

Report Issued: 03/01/21

WS 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.

WS Study Discussion

ERA's WS-294 WatR™ Supply 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 WS-294 WatR™ Supply 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 in the standards met the acceptance criteria contained in the 2016 TNI Standard and the criteria contained in the most current TNI FoPT table.

All analytes are included in ERA's A2LA accreditation, certification number 1539.01.

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 WS-294 WatR™ Supply 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™ Supply Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.





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WS-294 Laboratory Exception Report

Donny Juarez
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2393 Salt Creek Hwy
Casper, WY 82601
307-235-0515 x3244

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

WY00002
E772828
03/01/21
01/11/21 - 02/25/21

Not Acceptable Evaluations

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
WS Metals (cat# 590, lot# S294-697)							
1010	Arsenic	µg/L	26.9	14.5	10.2 - 18.8	Not Acceptable	EPA 200.7 4.4 1994
1075	Lead	µg/L	29.8	19.2	13.4 - 25.0	Not Acceptable	EPA 200.7 4.4 1994
1150	Silver	µg/L	121	199	139 - 259	Not Acceptable	EPA 200.8 5.4 1994
WS Inorganic Disinfection #2 (cat# 5260, lot# S294-5262)							
1540	Bromide	µg/L	271	233	198 - 268	Not Acceptable	EPA 300.0 2.1 1993
WS Organic Carbon (cat# 557, lot# S294-669)							
1710	Dissolved Organic Carbon (DOC)	mg/L	7.71	6.69	5.94 - 7.36	Not Acceptable	SM5310C 22nd ED 2011
WS Halomethanes (THMs) (cat# 842, lot# S294-702)							
4400	Bromoform	µg/L	11.2	8.97	7.18 - 10.8	Not Acceptable	EPA 524.2 4.1 1995
WS Regulated Semivolatiles #2 Herbicides (cat# 849, lot# S294-691)							
9411	Glyphosate	µg/L	784	616	493 - 739	Not Acceptable	EPA 547 1990





Final Report Results For Laboratory Energy Laboratories



Final Evaluation Report

Study: **WS-294**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Inorganic Results



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WS-294 Final Evaluation Report

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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
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WS Hardness (cat# 555, lot# S294-693)

1035	Calcium	mg/L	39.5	37.1	31.5 - 42.7	Acceptable	EPA 200.7 4.4 1994	2/10/2021	1.46	37.5	1.37	meh
1085	Magnesium	mg/L	3.27	3.13	2.66 - 3.60	Acceptable	EPA 200.7 4.4 1994	2/10/2021	1.04	3.12	0.149	meh
1155	Sodium	mg/L	47.9	45.9	39.0 - 52.8	Acceptable	EPA 200.7 4.4 1994	2/10/2021	1.49	45.4	1.67	meh
1550	Calcium Hardness as CaCO3	mg/L	97	92.7	78.8 - 107	Acceptable	SM2340B 22nd ED 2011	1/21/2021	1.02	93.8	3.11	tif
1755	Total Hardness as CaCO3	mg/L	110	106	90.1 - 122	Acceptable	SM2340B 22nd ED 2011	1/21/2021	0.906	106	4.13	tif

WS Inorganics (cat# 591, lot# S294-698)

1505	Alkalinity as CaCO3	mg/L	118	118	106 - 130	Acceptable	SM2320B 22nd ED 2011	1/21/2021	0.0896	118	3.16	dmb
1575	Chloride	mg/L	150	145	123 - 167	Acceptable	EPA 300.0 2.1 1993	1/22/2021	0.587	147	4.66	dmb
1610	Conductivity at 25°C	µmhos/cm	1210	1220	1100 - 1340	Acceptable	SM2510B 22nd ED 2011	1/22/2021	0.391	1200	30.4	kjp
1730	Fluoride	mg/L	5.62	5.35	4.82 - 5.88	Acceptable	EPA 300.0 2.1 1993	1/22/2021	0.757	5.42	0.266	dmb
1820	Nitrate + Nitrite as N	mg/L	8.05	8.13	6.91 - 9.35	Acceptable	EPA 353.2 2 1993	1/22/2021	-0.694	8.31	0.371	dmb
1810	Nitrate as N	mg/L	8.72	8.13	7.32 - 8.94	Acceptable	EPA 300.0 2.1 1993	1/22/2021	1.13	8.30	0.372	dmb
1125	Potassium	mg/L	32.4	33.7	28.6 - 38.8	Acceptable	EPA 200.7 4.4 1994	2/11/2021	-1.39	34.9	1.78	meh
2000	Sulfate	mg/L	182	179	152 - 206	Acceptable	EPA 300.0 2.1 1993	1/22/2021	-0.157	183	6.50	dmb
1955	Total Dissolved Solids at 180°C	mg/L	821	826	661 - 991	Acceptable	SM2540C 21st ED 1997	1/25/2021	-0.381	830	24.1	kjp





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WS Inorganics (cat# 591, lot# S294-698)

1505	Alkalinity as CaCO3	mg/L		118	106 - 130	Not Reported				118	3.16	
1575	Chloride	mg/L		145	123 - 167	Not Reported				147	4.66	
1610	Conductivity at 25°C	µmhos/cm		1220	1100 - 1340	Not Reported				1200	30.4	
1730	Fluoride	mg/L	5.65	5.35	4.82 - 5.88	Acceptable	SM4500F- C 22nd ED 2011	1/26/2021	0.870	5.42	0.266	dmb
1820	Nitrate + Nitrite as N	mg/L		8.13	6.91 - 9.35	Not Reported				8.31	0.371	
1810	Nitrate as N	mg/L	8.05	8.13	7.32 - 8.94	Acceptable	EPA 353.2 (calc)	1/25/2021	-0.671	8.30	0.372	jlw
1125	Potassium	mg/L		33.7	28.6 - 38.8	Not Reported				34.9	1.78	
2000	Sulfate	mg/L		179	152 - 206	Not Reported				183	6.50	
1955	Total Dissolved Solids at 180°C	mg/L		826	661 - 991	Not Reported				830	24.1	

WS pH (cat# 552, lot# S294-779)

1900	pH	S.U.	6.74	6.66	6.46 - 6.86	Acceptable	SM4500H+ B 22nd ED 2011	1/22/2021	0.512	6.72	0.0466	kjp
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WS Metals (cat# 590, lot# S294-697)

1000	Aluminum	µg/L	438	432	346 - 518	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-0.122	441	25.4	jcg
1005	Antimony	µg/L	30.7	31.1	21.8 - 40.4	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-0.125	30.9	1.86	jcg
1010	Arsenic	µg/L	16.5	14.5	10.2 - 18.8	Acceptable	EPA 200.8 5.4 1994	2/2/2021	1.46	14.4	1.42	jcg
1015	Barium	µg/L	2002	2060	1750 - 2370	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-0.503	2050	92.7	jcg
1020	Beryllium	µg/L	8.52	8.97	7.62 - 10.3	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-0.517	8.79	0.515	jcg
1025	Boron	µg/L		918	780 - 1060	Not Reported				912	50.1	
1030	Cadmium	µg/L	38.5	40.4	32.3 - 48.5	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-0.621	39.5	1.62	jcg
1040	Chromium	µg/L	162	145	123 - 167	Acceptable	EPA 200.8 5.4 1994	2/2/2021	2.92	145	5.86	jcg
1055	Copper	µg/L	1652	1620	1460 - 1780	Acceptable	EPA 200.8 5.4 1994	1/21/2021	0.907	1590	71.5	jcg
1070	Iron	µg/L		1410	1200 - 1620	Not Reported				1420	71.9	
1075	Lead	µg/L	18.6	19.2	13.4 - 25.0	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-0.332	19.0	1.26	jcg
1090	Manganese	µg/L	501	511	434 - 588	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-0.441	511	21.6	jcg
1100	Molybdenum	µg/L	85.1	94.6	80.4 - 109	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-1.88	93.1	4.28	jcg
1105	Nickel	µg/L	124	121	103 - 139	Acceptable	EPA 200.8 5.4 1994	1/21/2021	0.264	123	5.63	jcg
1140	Selenium	µg/L	82.3	82.8	66.2 - 99.4	Acceptable	EPA 200.8 5.4 1994	2/2/2021	-0.118	82.9	4.80	jcg
1150	Silver	µg/L		199	139 - 259	Not Reported				200	9.73	
1165	Thallium	µg/L	7.75	8.39	5.87 - 10.9	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-0.837	8.22	0.563	jcg
1185	Vanadium	µg/L	769	827	703 - 951	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-1.63	826	35.1	jcg
1190	Zinc	µg/L	554	490	416 - 564	Acceptable	EPA 200.8 5.4 1994	2/2/2021	2.62	489	24.8	jcg





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WS Metals (cat# 590, lot# S294-697)

1000	Aluminum	µg/L	476	432	346 - 518	Acceptable	EPA 200.7 4.4 1994	2/11/2021	1.37	441	25.4	meh
1005	Antimony	µg/L	33.2	31.1	21.8 - 40.4	Acceptable	EPA 200.7 4.4 1994	2/11/2021	1.22	30.9	1.86	meh
1010	Arsenic	µg/L	26.9	14.5	10.2 - 18.8	Not Acceptable	EPA 200.7 4.4 1994	2/11/2021	8.79	14.4	1.42	meh
1015	Barium	µg/L	2047	2060	1750 - 2370	Acceptable	EPA 200.7 4.4 1994	2/10/2021	-0.0173	2050	92.7	meh
1020	Beryllium	µg/L	8.51	8.97	7.62 - 10.3	Acceptable	EPA 200.7 4.4 1994	2/11/2021	-0.536	8.79	0.515	meh
1025	Boron	µg/L	951	918	780 - 1060	Acceptable	EPA 200.7 4.4 1994	2/10/2021	0.786	912	50.1	meh
1030	Cadmium	µg/L	41.3	40.4	32.3 - 48.5	Acceptable	EPA 200.7 4.4 1994	2/11/2021	1.10	39.5	1.62	meh
1040	Chromium	µg/L	142	145	123 - 167	Acceptable	EPA 200.7 4.4 1994	2/10/2021	-0.492	145	5.86	meh
1055	Copper	µg/L	1682	1620	1460 - 1780	Acceptable	EPA 200.7 4.4 1994	2/10/2021	1.33	1590	71.5	meh
1070	Iron	µg/L	1543	1410	1200 - 1620	Acceptable	EPA 200.7 4.4 1994	2/10/2021	1.74	1420	71.9	meh
1075	Lead	µg/L	29.8	19.2	13.4 - 25.0	Not Acceptable	EPA 200.7 4.4 1994	2/11/2021	8.58	19.0	1.26	meh
1090	Manganese	µg/L	511	511	434 - 588	Acceptable	EPA 200.7 4.4 1994	2/10/2021	0.0223	511	21.6	meh
1100	Molybdenum	µg/L	95.5	94.6	80.4 - 109	Acceptable	EPA 200.7 4.4 1994	2/11/2021	0.556	93.1	4.28	meh
1105	Nickel	µg/L	119	121	103 - 139	Acceptable	EPA 200.7 4.4 1994	2/10/2021	-0.624	123	5.63	meh
1140	Selenium	µg/L	89.6	82.8	66.2 - 99.4	Acceptable	EPA 200.7 4.4 1994	2/11/2021	1.40	82.9	4.80	meh
1150	Silver	µg/L	144	199	139 - 259	Acceptable	EPA 200.7 4.4 1994	1/27/2021	-5.72	200	9.73	meh
1165	Thallium	µg/L		8.39	5.87 - 10.9	Not Reported				8.22	0.563	
1185	Vanadium	µg/L	805	827	703 - 951	Acceptable	EPA 200.7 4.4 1994	2/11/2021	-0.603	826	35.1	meh
1190	Zinc	µg/L	540	490	416 - 564	Acceptable	EPA 200.7 4.4 1994	2/10/2021	2.06	489	24.8	meh





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WS Metals (cat# 590, lot# S294-697)

1000	Aluminum	µg/L		432	346 - 518	Not Reported				441	25.4	
1005	Antimony	µg/L		31.1	21.8 - 40.4	Not Reported				30.9	1.86	
1010	Arsenic	µg/L		14.5	10.2 - 18.8	Not Reported				14.4	1.42	
1015	Barium	µg/L		2060	1750 - 2370	Not Reported				2050	92.7	
1020	Beryllium	µg/L		8.97	7.62 - 10.3	Not Reported				8.79	0.515	
1025	Boron	µg/L	860	918	780 - 1060	Acceptable	EPA 200.8 5.4 1994	2/4/2021	-1.03	912	50.1	srm
1030	Cadmium	µg/L		40.4	32.3 - 48.5	Not Reported				39.5	1.62	
1040	Chromium	µg/L		145	123 - 167	Not Reported				145	5.86	
1055	Copper	µg/L		1620	1460 - 1780	Not Reported				1590	71.5	
1070	Iron	µg/L		1410	1200 - 1620	Not Reported				1420	71.9	
1075	Lead	µg/L		19.2	13.4 - 25.0	Not Reported				19.0	1.26	
1090	Manganese	µg/L		511	434 - 588	Not Reported				511	21.6	
1100	Molybdenum	µg/L		94.6	80.4 - 109	Not Reported				93.1	4.28	
1105	Nickel	µg/L		121	103 - 139	Not Reported				123	5.63	
1140	Selenium	µg/L		82.8	66.2 - 99.4	Not Reported				82.9	4.80	
1150	Silver	µg/L	121	199	139 - 259	Not Acceptable	EPA 200.8 5.4 1994	2/4/2021	-8.08	200	9.73	srm
1165	Thallium	µg/L		8.39	5.87 - 10.9	Not Reported				8.22	0.563	
1185	Vanadium	µg/L		827	703 - 951	Not Reported				826	35.1	
1190	Zinc	µg/L		490	416 - 564	Not Reported				489	24.8	

WS Uranium (cat# 858, lot# S294-930)

3055	Uranium (Nat)	µg/L	62.6	67.4	54.9 - 74.4	Acceptable	EPA 200.8 5.4 1994	1/21/2021	-0.986	66.6	4.01	jcg
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WS Inorganic Disinfection #2 (cat# 5260, lot# S294-5262)

1535	Bromate	µg/L		13.2	9.24 - 17.2	Not Reported				12.9	1.35	
1540	Bromide	µg/L	271	233	198 - 268	Not Acceptable	EPA 300.0 2.1 1993	2/5/2021	2.82	232	13.8	dmb

WS Nitrite (cat# 594, lot# S294-695)

1840	Nitrite as N	mg/L	0.942	0.899	0.764 - 1.03	Acceptable	SM4500NO2- B 22nd ED 2011	1/22/2021	1.09	0.900	0.0385	dmb
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WS o-Phosphate Nutrients (cat# 558, lot# S294-667)

1870	ortho-Phosphate as P	mg/L	1.64	1.72	1.46 - 1.98	Acceptable	EPA 365.1 2 1993	2/2/2021	-0.993	1.73	0.0866	dmb
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WS Organic Carbon (cat# 557, lot# S294-669)

1710	Dissolved Organic Carbon (DOC)	mg/L	7.71	6.69	5.94 - 7.36	Not Acceptable	SM5310C 22nd ED 2011	1/28/2021	3.04	6.77	0.310	dmb
2040	Total Organic Carbon (TOC)	mg/L	7.9	6.69	5.35 - 8.03	Acceptable	SM5310C 22nd ED 2011	1/27/2021	3.56	6.76	0.321	dmb

WS Organic Carbon (cat# 557, lot# S294-669)

1710	Dissolved Organic Carbon (DOC)	mg/L		6.69	5.94 - 7.36	Not Reported				6.77	0.310	
2040	Total Organic Carbon (TOC)	mg/L	7.65	6.69	5.35 - 8.03	Acceptable	EPA 9060A 2004	1/28/2021	2.78	6.76	0.321	dmb

WS Silica (cat# 902, lot# S294-785)

1990	Silica as SiO2	mg/L	49.1	45.7	38.8 - 52.6	Acceptable	EPA 200.7 4.4 1994	2/10/2021	1.80	45.2	2.16	meh
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WS Corrosivity (cat# 900, lot# S294-980)

1620	Corrosivity	S.I. @ 20°C	1.43	1.39	0.990 - 1.79	Acceptable	SM2330B 21st ED 2000	2/8/2021	0.856	1.26	0.194	jlw
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WS Turbidity (cat# 592, lot# S294-699)

2055	Turbidity	NTU	2.46	2.36	1.96 - 2.76	Acceptable	SM2130B 21st ED 2001	1/28/2021	0.804	2.32	0.170	dmb
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Final Evaluation Report

Study: **WS-294**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Microbiology Results





A Waters Company

WS-294 Final Evaluation Report

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WS MicrobE™ (Coliforms) (cat# 080A, lot# S294-085A)

2500	Total Coliforms - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 9	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 10	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 7, 9 and 10
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 2, 4 and 5
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 3
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 8
 Blank - Blank Pellet (Qualitative), Samples 1 and 6





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WS MicrobE™ (Coliforms) (cat# 080A, lot# S294-085A) (Continued)

2530	Fecal Coliforms - Sample 1	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 2	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 3	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 4	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 5	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 6	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 7	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 8	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 9	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 10	CFU/100mL		Presence	Presence	Not Reported						

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 7, 9 and 10
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 2, 4 and 5
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 3
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 8
 Blank - Blank Pellet (Qualitative), Samples 1 and 6





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WS-294 Final Evaluation Report

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WS MicrobE™ (Coliforms) (cat# 080A, lot# S294-085A) (Continued)

2525	E.coli - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 9	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 10	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 22nd ED 2004	1/13/2021				srm

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 7, 9 and 10
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 2, 4 and 5
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 3
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 8
 Blank - Blank Pellet (Qualitative), Samples 1 and 6





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WS MicrobE™ (Coliforms) (cat# 080B, lot# S294-085B)

2500	Total Coliforms - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 9	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2500	Total Coliforms - Sample 10	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 5, 9 and 10
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 4, 6 and 7
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 3
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 8
 Blank - Blank Pellet (Qualitative), Samples 1 and 2





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WS MicrobE™ (Coliforms) (cat# 080B, lot# S294-085B) (Continued)

2530	Fecal Coliforms - Sample 1	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 2	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 3	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 4	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 5	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 6	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 7	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 8	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 9	CFU/100mL		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 10	CFU/100mL		Presence	Presence	Not Reported						

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 5, 9 and 10
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 4, 6 and 7
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 3
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 8
 Blank - Blank Pellet (Qualitative), Samples 1 and 2





WS-294 Final Evaluation Report

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WS MicrobE™ (Coliforms) (cat# 080B, lot# S294-085B) (Continued)

2525	E.coli - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 7	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 9	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm
2525	E.coli - Sample 10	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 22nd ED 2004	1/13/2021				srm

Total Coliforms Evaluation : Acceptable
Fecal Coliforms Evaluation : Not Reported
E.coli Evaluation : Acceptable

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 5, 9 and 10
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 4, 6 and 7
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 3
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 8
 Blank - Blank Pellet (Qualitative), Samples 1 and 2





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WS WS SourceWatR™ MicrobE™ (cat# 595, lot# S294-078)

2500	Total Coliforms (MF)	CFU/100mL		60.0	36.0 - 101	Not Reported				60.4	16.2	
2530	Fecal Coliforms (MF)	CFU/100mL		51.0	22.0 - 118	Not Reported				51.4	23.9	
2525	E.coli (MF)	CFU/100mL		61.0	34.0 - 109	Not Reported				61.2	18.6	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	79.4	79.2	50.6 - 124	Acceptable	SM 9223 B (Colilert Quanti-Tray)-2004 2004	1/13/2021	0.000980	79.2	18.3	
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL		58.0	15.5 - 221	Not Reported				73.8	19.3	
2525	E.coli (MPN-Multiple Well)	MPN/100mL	79.4	78.0	50.5 - 121	Acceptable	SM 9223 B (Colilert Quanti-Tray)-2004 2004	1/13/2021	0.00602	78.0	17.5	

WS WS SourceWatR™ MicrobE™ (cat# 595, lot# S294-078)

2500	Total Coliforms (MF)	CFU/100mL		60.0	36.0 - 101	Not Reported				60.4	16.2	
2530	Fecal Coliforms (MF)	CFU/100mL		51.0	22.0 - 118	Not Reported				51.4	23.9	
2525	E.coli (MF)	CFU/100mL		61.0	34.0 - 109	Not Reported				61.2	18.6	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	78.0	79.2	50.6 - 124	Acceptable	SM 9223 B (Colilert-18 Quanti-Tray)-2004 2004	1/13/2021	-0.00514	79.2	18.3	
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL		58.0	15.5 - 221	Not Reported				73.8	19.3	
2525	E.coli (MPN-Multiple Well)	MPN/100mL	74.3	78.0	50.5 - 121	Acceptable	SM 9223 B (Colilert-18 Quanti-Tray)-2004 2004	1/13/2021	-0.0172	78.0	17.5	

WS Heterotrophic Plate Count (cat# 079, lot# S294-084)

2555	Heterotrophic Plate Count (MF, PP)	CFU/mL		221	171 - 285	Not Reported				221	28.6	
2555	Heterotrophic Plate Count (MPN)	MPN/mL	231	208	124 - 347	Acceptable	Simplate 2000	1/13/2021	0.0262	208	55.7	





Final Evaluation Report

Study: **WS-294**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Organic Results





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WS-294 Final Evaluation Report

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WS Halomethanes (THMs) (cat# 842, lot# S294-702)

4395	Bromodichloromethane	µg/L	43.9	37.7	30.2 - 45.2	Acceptable	EPA 524.2 4.1 1995	1/13/2021	1.34	39.2	3.53	adw
4400	Bromoform	µg/L	11.2	8.97	7.18 - 10.8	Not Acceptable	EPA 524.2 4.1 1995	1/13/2021	1.72	9.32	1.09	adw
4575	Chlorodibromomethane	µg/L	47.4	44.8	35.8 - 53.8	Acceptable	EPA 524.2 4.1 1995	1/13/2021	0.316	46.1	4.04	adw
4505	Chloroform	µg/L	48.2	45.3	36.2 - 54.4	Acceptable	EPA 524.2 4.1 1995	1/13/2021	0.265	47.2	3.90	adw





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03/01/21
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WS-294 Final Evaluation Report

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WS Regulated Volatiles (cat# 840, lot# S294-703)

4375	Benzene	µg/L	5.65	6.41	3.85 - 8.97	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.64	6.49	0.512	adw
4455	Carbon tetrachloride	µg/L	14	14.8	11.8 - 17.8	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.588	15.1	1.94	adw
4475	Chlorobenzene	µg/L	16.3	18.6	14.9 - 22.3	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.85	18.7	1.30	adw
4610	1,2-Dichlorobenzene	µg/L	7.27	7.93	4.76 - 11.1	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.07	7.87	0.558	adw
4620	1,4-Dichlorobenzene	µg/L	14.1	15.0	12.0 - 18.0	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.444	14.6	1.20	adw
4635	1,2-Dichloroethane	µg/L	9.11	10.9	8.72 - 13.1	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-2.01	11.0	0.917	adw
4640	1,1-Dichloroethylene	µg/L	15.3	17.0	13.6 - 20.4	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.27	17.7	1.88	adw
4645	cis-1,2-Dichloroethylene	µg/L	7.4	8.65	5.19 - 12.1	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.37	8.59	0.870	adw
4700	trans-1,2-Dichloroethylene	µg/L	10.9	13.2	10.6 - 15.8	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-2.40	13.6	1.13	adw
4655	1,2-Dichloropropane	µg/L	17.6	18.9	15.1 - 22.7	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.14	19.2	1.38	adw
4765	Ethylbenzene	µg/L	15	16.4	13.1 - 19.7	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.16	16.6	1.39	adw
4975	Methylene chloride (Dichloromethane)	µg/L	5.95	6.55	3.93 - 9.17	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.19	6.69	0.617	adw
5100	Styrene	µg/L	16.8	15.8	12.6 - 19.0	Acceptable	EPA 524.2 4.1 1995	1/14/2021	0.549	16.0	1.45	adw
5115	Tetrachloroethylene	µg/L	9.93	10.6	8.48 - 12.7	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.371	10.3	1.02	adw
5140	Toluene	µg/L	15.9	16.8	13.4 - 20.2	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.781	17.0	1.41	adw
5155	1,2,4-Trichlorobenzene	µg/L	6.34	6.80	4.08 - 9.52	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.280	6.52	0.639	adw
5160	1,1,1-Trichloroethane	µg/L	6.18	6.92	4.15 - 9.69	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.13	6.95	0.680	adw
5165	1,1,2-Trichloroethane	µg/L	2.44	2.60	1.56 - 3.64	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.718	2.64	0.272	adw
5170	Trichloroethylene	µg/L	10.4	10.5	8.40 - 12.6	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.241	10.6	0.964	adw
5235	Vinyl chloride	µg/L	13.9	18.6	11.2 - 26.0	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.52	17.9	2.61	adw





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ERA Customer Number: E772828
Report Issued: 03/01/21
Study Dates: 01/11/21 - 02/25/21

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WS Regulated Volatiles (cat# 840, lot# S294-703) (Continued)

5260	Xylenes, total	µg/L	23.6	25.8	20.6 - 31.0	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.09	26.2	2.39	adw
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WS Unregulated Volatiles (cat# 841, lot# S294-683)

4385	Bromobenzene	µg/L	< 0.5	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
4390	Bromochloromethane	µg/L	18.1	19.1	15.3 - 22.9	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.468	18.9	1.75	adw
4950	Bromomethane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
5000	tert-Butyl methyl ether (MTBE)	µg/L	33.5	34.8	27.8 - 41.8	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.780	36.3	3.58	adw
4435	n-Butylbenzene	µg/L	< 0.5	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
4440	sec-Butylbenzene	µg/L	< 0.5	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
4445	tert-Butylbenzene	µg/L	14.6	15.3	12.2 - 18.4	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.363	15.3	1.81	adw
4485	Chloroethane	µg/L	5.29	6.33	3.80 - 8.86	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.82	6.41	0.615	adw
4960	Chloromethane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
4535	2-Chlorotoluene	µg/L	3.15	4.09	2.45 - 5.73	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.66	3.90	0.453	adw
4540	4-Chlorotoluene	µg/L	< 0.5	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
4595	Dibromomethane	µg/L	12.4	11.9	9.52 - 14.3	Acceptable	EPA 524.2 4.1 1995	1/14/2021	0.464	11.9	0.983	adw
4615	1,3-Dichlorobenzene	µg/L	4.49	5.09	3.05 - 7.13	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.58	5.14	0.410	adw
4625	Dichlorodifluoromethane (Freon 12)	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
4630	1,1-Dichloroethane	µg/L	6.76	7.77	4.66 - 10.9	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.08	7.48	0.663	adw
4660	1,3-Dichloropropane	µg/L	< 0.5	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
4665	2,2-Dichloropropane	µg/L	9.1	9.43	5.66 - 13.2	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.196	9.32	1.13	adw
4670	1,1-Dichloropropene	µg/L	10.4	10.8	8.64 - 13.0	Acceptable	EPA 524.2 4.1 1995	1/14/2021	0.103	10.3	0.967	adw
4680	cis-1,3-Dichloropropene	µg/L	2.58	2.63	1.58 - 3.68	Acceptable	EPA 524.2 4.1 1995	1/14/2021	0.555	2.46	0.221	adw
4685	trans-1,3-Dichloropropene	µg/L	3.42	3.87	2.32 - 5.42	Acceptable	EPA 524.2 4.1 1995	1/14/2021	0.176	3.36	0.364	adw





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WS Unregulated Volatiles (cat# 841, lot# S294-683) (Continued)

5175	Fluorotrichloromethane	µg/L	< 0.5	< 3.00	0.00 - 3.00	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
4835	Hexachlorobutadiene	µg/L	24	28.5	22.8 - 34.2	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.865	27.6	4.18	adw
4900	Isopropylbenzene	µg/L	< 0.5	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
4910	4-Isopropyltoluene	µg/L	18.5	19.3	15.4 - 23.2	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.516	19.5	1.85	adw
5005	Naphthalene	µg/L	34.2	30.7	21.5 - 39.9	Acceptable	EPA 524.2 4.1 1995	1/14/2021	1.09	30.5	3.40	adw
5090	n-Propylbenzene	µg/L	< 0.5	< 1.20	0.00 - 1.20	Acceptable	EPA 524.2 4.1 1995	1/14/2021				adw
5105	1,1,1,2-Tetrachloroethane	µg/L	4.39	4.61	2.77 - 6.45	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.334	4.52	0.388	adw
5110	1,1,2,2-Tetrachloroethane	µg/L	7.47	8.75	5.25 - 12.2	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.31	8.45	0.750	adw
5150	1,2,3-Trichlorobenzene	µg/L	27.9	23.9	19.1 - 28.7	Acceptable	EPA 524.2 4.1 1995	1/14/2021	1.77	23.7	2.40	adw
5180	1,2,3-Trichloropropane (TCP)	µg/L	2.32	2.61	1.57 - 3.65	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-1.18	2.59	0.226	adw
5210	1,2,4-Trimethylbenzene	µg/L	18.8	19.0	15.2 - 22.8	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.0702	18.9	1.57	adw
5215	1,3,5-Trimethylbenzene	µg/L	6.68	8.10	4.86 - 11.3	Acceptable	EPA 524.2 4.1 1995	1/14/2021	-0.746	7.43	1.00	adw





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WS Carbamate/Carbamoxylxime Pesticides (cat# 846, lot# S294-707)

7010	Aldicarb	µg/L	28.2	25.9	19.4 - 32.4	Acceptable	EPA 531.1 3.1 1995	1/23/2021	0.496	26.9	2.66	ljl
7015	Aldicarb sulfone	µg/L	31.5	29.9	22.4 - 37.4	Acceptable	EPA 531.1 3.1 1995	1/23/2021	1.15	28.6	2.53	ljl
7020	Aldicarb sulfoxide	µg/L	31.5	26.1	19.6 - 32.6	Acceptable	EPA 531.1 3.1 1995	1/23/2021	1.33	27.5	3.05	ljl
8080	Baygon	µg/L	123	109	89.4 - 128	Acceptable	EPA 531.1 3.1 1995	1/23/2021	3.84	107	4.19	ljl
7195	Carbaryl	µg/L	81.4	73.7	55.3 - 92.1	Acceptable	EPA 531.1 3.1 1995	1/23/2021	1.70	73.3	4.78	ljl
7205	Carbofuran	µg/L	121	107	58.8 - 155	Acceptable	EPA 531.1 3.1 1995	1/23/2021	1.53	106	10.1	ljl
7710	3-Hydroxycarbofuran	µg/L	17.3	15.2	12.2 - 18.2	Acceptable	EPA 531.1 3.1 1995	1/23/2021	1.02	15.5	1.75	ljl
7800	Methiocarb	µg/L	36	33.7	26.1 - 39.6	Acceptable	EPA 531.1 3.1 1995	1/23/2021	1.66	32.6	2.03	ljl
7805	Methomyl	µg/L	74.3	64.8	51.8 - 77.8	Acceptable	EPA 531.1 3.1 1995	1/23/2021	1.83	64.2	5.53	ljl
7940	Oxamyl (vydate)	µg/L	105	90.5	67.9 - 113	Acceptable	EPA 531.1 3.1 1995	1/23/2021	1.48	94.3	7.23	ljl

WS Regulated Semivolatiles #2 Herbicides (cat# 849, lot# S294-691)

9390	Diquat	µg/L	25.8	34.9	17.4 - 52.4	Acceptable	EPA 549.2 1 1997	1/26/2021	-0.652	29.8	6.13	ljl
7525	Endothall	µg/L		82.8	41.4 - 124	Not Reported				80.5	8.69	
9411	Glyphosate	µg/L	784	616	493 - 739	Not Acceptable	EPA 547 1990	1/23/2021	3.45	590	56.1	ljl
9528	Paraquat	µg/L		84.3	40.0 - 94.0	Not Reported				68.2	6.10	



CERTIFICATE OF RECOGNITION

ERA congratulates
Energy Laboratories
WS-294

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

Carbamate/Carbamoxyl oxime Pesticides	Corrosivity	Hardness
Heterotrophic Plate Count	Inorganics	MicrobE™ (Coliforms)
Nitrite	o-Phosphate Nutrients	pH
Regulated Volatiles	Silica	Turbidity
Unregulated Volatiles	Uranium	WS SourceWatR™ MicrobE™



Matthew Seebeck
Quality Officer