



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

WS-306  **Final Report**

WatR™ Supply Proficiency Testing

WatR™ Supply Study

Open Date: 01/10/2022

Close Date: 02/24/2022

Report Issued Date: 02/28/2022



A Waters Company

February 28, 2022

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

Enclosed is your final report for ERA's WS-306 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-306 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-306 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", written over a white background.

Matthew Seebeck
Quality Officer

attachments





A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type
Alabama	Benny Laughlin / 334-271-7775	All Analytes
California ELAP	Christine Sotelo / 916-341-5175	All Analytes
Colorado	Thomas Lill / 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
Montana	Russell Leu / 406-444-5259	All Analytes
Nebraska	Tara Wulfekoetter / 402-471-8439	All Analytes
Nevada	Paige Menicucci / 775-687-9311	All Analytes
Oregon	Travis Bartholomew / 503-693-4122	All Analytes
South Dakota	Rea Riggle / 605-773-3368	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-306 Definitions & Study Discussion

Study Dates: 01/10/2022 - 02/24/2022

Report Issued: 02/28/2022

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-306 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-306 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 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-306 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-306 Laboratory Exception Report

Donny Juarez
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2393 Salt Creek Hwy
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307-235-0515 x3244

EPA ID: WY00002
ERA Customer Number: E772828
Report Issued: 02/28/2022
Study Dates: 01/10/2022 - 02/24/2022

Not Acceptable Evaluations

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
<i>WS Inorganics (cat# 591, lot# S306-698)</i>							
1730	Fluoride	mg/L	1.72	1.93	1.74 - 2.12	Not Acceptable	EPA 300.0 2.1 1993
<i>WS Heterotrophic Plate Count (cat# 079, lot# S306-084)</i>							
2555	Heterotrophic Plate Count (MPN)	MPN/mL	620	251	148 - 425	Not Acceptable	Simplate 2000



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





Final Report Results For Laboratory Energy Laboratories



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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Study # : WS-306





Final Evaluation Report

Study: **WS-306**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Inorganic Results



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

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Study # : WS-306





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WS-306 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# S306-693)

1035	Calcium	mg/L	76.6	77.1	65.5 - 88.7	Acceptable	EPA 200.7 4.4 1994	2/2/2022	-0.204	77.3	3.54	srm
1085	Magnesium	mg/L	17.9	18.4	15.6 - 21.2	Acceptable	EPA 200.7 4.4 1994	2/2/2022	-0.260	18.1	0.766	srm
1155	Sodium	mg/L	46.1	46.7	39.7 - 53.7	Acceptable	EPA 200.7 4.4 1994	2/2/2022	-0.214	46.6	2.19	srm
1550	Calcium Hardness as CaCO3	mg/L	191	193	164 - 222	Acceptable	SM2340B 22nd ED 2011	2/2/2022	-0.302	193	7.90	jlw
1755	Total Hardness as CaCO3	mg/L	265	268	228 - 308	Acceptable	SM2340B 22nd ED 2011	2/2/2022	-0.227	267	9.39	jlw

WS Inorganics (cat# 591, lot# S306-698)

1505	Alkalinity as CaCO3	mg/L	100	101	90.9 - 111	Acceptable	SM2320B 22nd ED 2011	1/27/2022	-0.391	101	2.74	kjp
1575	Chloride	mg/L	111	106	90.1 - 122	Acceptable	EPA 300.0 2.1 1993	1/29/2022	0.911	107	4.27	dmb
1610	Conductivity at 25°C	µmhos/cm	1183	1180	1060 - 1300	Acceptable	SM2510B 22nd ED 2011	1/27/2022	0.596	1170	24.8	mnm
1730	Fluoride	mg/L	1.72	1.93	1.74 - 2.12	Not Acceptable	EPA 300.0 2.1 1993	1/29/2022	-2.03	1.93	0.105	dmb
1820	Nitrate + Nitrite as N	mg/L	9.91	9.90	8.42 - 11.4	Acceptable	EPA 353.2 2 1993	1/25/2022	-0.178	9.99	0.429	nts
1810	Nitrate as N	mg/L	10.5	9.90	8.91 - 10.9	Acceptable	EPA 300.0 2.1 1993	1/29/2022	1.35	9.94	0.417	dmb
1125	Potassium	mg/L	29.7	31.6	26.9 - 36.3	Acceptable	EPA 200.7 4.4 1994	2/2/2022	-1.55	32.4	1.77	srm
2000	Sulfate	mg/L	243	233	198 - 268	Acceptable	EPA 300.0 2.1 1993	1/29/2022	0.724	237	8.34	dmb
1955	Total Dissolved Solids at 180°C	mg/L	827	813	650 - 976	Acceptable	SM2540C 23rd ED 2015	1/27/2022	0.632	808	30.7	mnm

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WS Inorganics (cat# 591, lot# S306-698)

1505	Alkalinity as CaCO3	mg/L		101	90.9 - 111	Not Reported				101	2.74	
1575	Chloride	mg/L		106	90.1 - 122	Not Reported				107	4.27	
1610	Conductivity at 25°C	µmhos/cm		1180	1060 - 1300	Not Reported				1170	24.8	
1730	Fluoride	mg/L	1.97	1.93	1.74 - 2.12	Acceptable	SM4500F- C 22nd ED 2011	2/4/2022	0.341	1.93	0.105	kjp
1820	Nitrate + Nitrite as N	mg/L		9.90	8.42 - 11.4	Not Reported				9.99	0.429	
1810	Nitrate as N	mg/L	9.91	9.90	8.91 - 10.9	Acceptable	EPA 353.2 (calc)	2/3/2022	-0.0647	9.94	0.417	jlw
1125	Potassium	mg/L		31.6	26.9 - 36.3	Not Reported				32.4	1.77	
2000	Sulfate	mg/L		233	198 - 268	Not Reported				237	8.34	
1955	Total Dissolved Solids at 180°C	mg/L		813	650 - 976	Not Reported				808	30.7	

WS pH (cat# 552, lot# S306-779)

1900	pH	S.U.	6.32	6.26	6.06 - 6.46	Acceptable	SM4500H+ B 22nd ED 2011	1/27/2022	0.386	6.30	0.0453	mmm
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WS Metals (cat# 590, lot# S306-697)

1000	Aluminum	µg/L	277	268	214 - 322	Acceptable	EPA 200.8 5.4 1994	1/19/2022	0.0132	277	15.4	jcg
1005	Antimony	µg/L	48.5	47.7	33.4 - 62.0	Acceptable	EPA 200.8 5.4 1994	1/19/2022	0.577	46.8	2.97	jcg
1010	Arsenic	µg/L	34.6	33.6	23.5 - 43.7	Acceptable	EPA 200.8 5.4 1994	1/19/2022	1.34	32.3	1.75	jcg
1015	Barium	µg/L	2022	2020	1720 - 2320	Acceptable	EPA 200.8 5.4 1994	1/19/2022	0.233	2000	90.0	jcg
1020	Beryllium	µg/L	11.2	12.3	10.5 - 14.1	Acceptable	EPA 200.8 5.4 1994	1/19/2022	-1.29	12.0	0.635	jcg
1025	Boron	µg/L		1600	1360 - 1840	Not Reported				1590	97.0	
1030	Cadmium	µg/L	38	38.5	30.8 - 46.2	Acceptable	EPA 200.8 5.4 1994	1/19/2022	0.193	37.6	1.83	jcg
1040	Chromium	µg/L	51.9	53.7	45.6 - 61.8	Acceptable	EPA 200.8 5.4 1994	1/19/2022	-0.473	53.1	2.56	jcg
1055	Copper	µg/L	1618	1580	1420 - 1740	Acceptable	EPA 200.8 5.4 1994	1/19/2022	0.922	1560	65.2	jcg
1070	Iron	µg/L		353	300 - 406	Not Reported				356	16.2	
1075	Lead	µg/L	45.7	47.1	33.0 - 61.2	Acceptable	EPA 200.8 5.4 1994	1/19/2022	-0.598	47.2	2.48	jcg
1090	Manganese	µg/L	218	211	179 - 243	Acceptable	EPA 200.8 5.4 1994	1/19/2022	0.387	215	8.11	jcg
1100	Molybdenum	µg/L	16.8	17.9	15.2 - 20.6	Acceptable	EPA 200.8 5.4 1994	1/19/2022	-0.868	17.6	0.889	jcg
1105	Nickel	µg/L	268	273	232 - 314	Acceptable	EPA 200.8 5.4 1994	1/19/2022	-0.519	275	12.7	jcg
1140	Selenium	µg/L	36.8	33.2	26.6 - 39.8	Acceptable	EPA 200.8 5.4 1994	1/19/2022	1.37	33.4	2.44	jcg
1150	Silver	µg/L	131	133	93.1 - 173	Acceptable	EPA 200.8 5.4 1994	1/31/2022	-0.238	132	5.08	jcg
1165	Thallium	µg/L	8.13	7.91	5.54 - 10.3	Acceptable	EPA 200.8 5.4 1994	2/2/2022	0.613	7.82	0.498	jcg
1185	Vanadium	µg/L	761	772	656 - 888	Acceptable	EPA 200.8 5.4 1994	1/19/2022	-0.373	772	29.6	jcg
1190	Zinc	µg/L	1148	1210	1030 - 1390	Acceptable	EPA 200.8 5.4 1994	2/3/2022	-1.09	1210	54.3	jcg



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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WS Metals (cat# 590, lot# S306-697)

1000	Aluminum	µg/L	321	268	214 - 322	Acceptable	EPA 200.7 4.4 1994	2/3/2022	2.86	277	15.4	srm
1005	Antimony	µg/L		47.7	33.4 - 62.0	Not Reported				46.8	2.97	
1010	Arsenic	µg/L		33.6	23.5 - 43.7	Not Reported				32.3	1.75	
1015	Barium	µg/L	2098	2020	1720 - 2320	Acceptable	EPA 200.7 4.4 1994	2/2/2022	1.08	2000	90.0	srm
1020	Beryllium	µg/L	12.4	12.3	10.5 - 14.1	Acceptable	EPA 200.7 4.4 1994	2/2/2022	0.597	12.0	0.635	srm
1025	Boron	µg/L	1683	1600	1360 - 1840	Acceptable	EPA 200.7 4.4 1994	2/3/2022	0.952	1590	97.0	srm
1030	Cadmium	µg/L	34.5	38.5	30.8 - 46.2	Acceptable	EPA 200.7 4.4 1994	2/2/2022	-1.72	37.6	1.83	srm
1040	Chromium	µg/L	53.1	53.7	45.6 - 61.8	Acceptable	EPA 200.7 4.4 1994	2/2/2022	-0.00377	53.1	2.56	srm
1055	Copper	µg/L	1604	1580	1420 - 1740	Acceptable	EPA 200.7 4.4 1994	2/2/2022	0.708	1560	65.2	srm
1070	Iron	µg/L	315	353	300 - 406	Acceptable	EPA 200.7 4.4 1994	1/19/2022	-2.50	356	16.2	srm
1075	Lead	µg/L		47.1	33.0 - 61.2	Not Reported				47.2	2.48	
1090	Manganese	µg/L	220	211	179 - 243	Acceptable	EPA 200.7 4.4 1994	2/2/2022	0.634	215	8.11	srm
1100	Molybdenum	µg/L		17.9	15.2 - 20.6	Not Reported				17.6	0.889	
1105	Nickel	µg/L	279	273	232 - 314	Acceptable	EPA 200.7 4.4 1994	2/2/2022	0.347	275	12.7	srm
1140	Selenium	µg/L		33.2	26.6 - 39.8	Not Reported				33.4	2.44	
1150	Silver	µg/L	126	133	93.1 - 173	Acceptable	EPA 200.7 4.4 1994	2/3/2022	-1.22	132	5.08	srm
1165	Thallium	µg/L		7.91	5.54 - 10.3	Not Reported				7.82	0.498	
1185	Vanadium	µg/L	776	772	656 - 888	Acceptable	EPA 200.7 4.4 1994	2/2/2022	0.134	772	29.6	srm
1190	Zinc	µg/L	1193	1210	1030 - 1390	Acceptable	EPA 200.7 4.4 1994	2/4/2022	-0.261	1210	54.3	srm

WS Uranium (cat# 858, lot# S306-930)

1184	Uranium (mass)	µg/L	14	15.7	12.3 - 18.0	Acceptable	EPA 200.8 5.4 1994	1/19/2022	-1.78	15.5	0.826	jcg
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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WS Inorganic Disinfection #2 (cat# 5260, lot# S306-5262)

1535	Bromate	µg/L		46.1	32.3 - 59.9	Not Reported				44.0	3.14	
1540	Bromide	µg/L	176	157	133 - 181	Acceptable	EPA 300.0 2.1 1993	1/29/2022	1.95	155	10.6	dmb

WS Nitrite (cat# 594, lot# S306-695)

1840	Nitrite as N	mg/L	0.727	0.736	0.626 - 0.846	Acceptable	SM4500NO2- B 22nd ED 2011	1/26/2022	-0.430	0.741	0.0336	nts
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WS o-Phosphate Nutrients (cat# 558, lot# S306-667)

1870	ortho-Phosphate as P	mg/L	2.43	2.39	2.03 - 2.75	Acceptable	EPA 365.1 2 1993	1/25/2022	0.369	2.38	0.136	dmb
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WS Organic Carbon (cat# 557, lot# S306-669)

1710	Dissolved Organic Carbon (DOC)	mg/L		1.86	1.62 - 2.20	Not Reported				1.94	0.175	
2040	Total Organic Carbon (TOC)	mg/L	1.85	1.86	1.49 - 2.23	Acceptable	EPA 9060A 2004	2/1/2022	-0.525	1.93	0.158	nts

WS Organic Carbon (cat# 557, lot# S306-669)

1710	Dissolved Organic Carbon (DOC)	mg/L	1.82	1.86	1.62 - 2.20	Acceptable	SM 5310 C-2014 2014	2/2/2022	-0.713	1.94	0.175	nts
2040	Total Organic Carbon (TOC)	mg/L	1.83	1.86	1.49 - 2.23	Acceptable	SM 5310 C-2014 2014	2/2/2022	-0.652	1.93	0.158	nts

WS Silica (cat# 902, lot# S306-785)

1990	Silica as SiO2	mg/L	65	62.5	53.1 - 71.9	Acceptable	EPA 200.7 4.4 1994	2/3/2022	0.829	62.0	3.61	srm
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WS Corrosivity (cat# 900, lot# S306-980)

1620	Corrosivity	S.I. @ 20°C	1.31	1.27	0.870 - 1.67	Acceptable	SM2330B 21st ED 2000	2/18/2022	0.538	1.22	0.160	mas
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WS Turbidity (cat# 592, lot# S306-699)

2055	Turbidity	NTU	6.36	6.15	5.23 - 6.89	Acceptable	SM2130B 21st ED 2001	1/25/2022	0.315	6.27	0.294	kjp
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





Final Evaluation Report

Study: **WS-306**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Microbiology Results



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WS MicrobE™ (Coliforms) (cat# 080A, lot# S306-085A)

2500	Total Coliforms - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 8	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 10	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf

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

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

All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





A Waters Company

WS-306 Final Evaluation Report

Donny Juarez
Quality Assurance Manager
Energy Laboratories
2393 Salt Creek Hwy
Casper, WY 82601
307-235-0515 x3244

EPA ID:
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WY00002
E772828
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WS MicrobE™ (Coliforms) (cat# 080A, lot# S306-085A) (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		Presence	Presence	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		Presence	Presence	Not Reported						
2530	Fecal Coliforms - Sample 9	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 10	CFU/100mL		Absence	Absence	Not Reported						

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

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

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WS MicrobE™ (Coliforms) (cat# 080A, lot# S306-085A) (Continued)

2525	E.coli - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 2	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 3	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 6	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 8	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLILERT 23rd ED 2016	1/17/2022				dmf

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

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

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WS MicrobE™ (Coliforms) (cat# 080B, lot# S306-085B)

2500	Total Coliforms - Sample 1	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 4	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 5	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2500	Total Coliforms - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf

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

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



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WS MicrobE™ (Coliforms) (cat# 080B, lot# S306-085B) (Continued)

2530	Fecal Coliforms - Sample 1	CFU/100mL		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 2	CFU/100mL		Presence	Presence	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		Presence	Presence	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		Absence	Absence	Not Reported						
2530	Fecal Coliforms - Sample 10	CFU/100mL		Absence	Absence	Not Reported						

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

Fecal Coliform Organism - Escherichia coli (ATCC 35421), Samples 2, 6 and 7
 Total Coliform Organism - Enterobacter cloacae (NCTC 10005), Samples 1, 4 and 5
 Negative (1) Coliform Organism - Proteus mirabilis (NCIMB 13283), Sample 3
 Negative (2) Coliform Organism - Pseudomonas aeruginosa (NCIMB 12469), Sample 9
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WS MicrobE™ (Coliforms) (cat# 080B, lot# S306-085B) (Continued)

2525	E.coli - Sample 1	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 2	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 3	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 4	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 5	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 6	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 7	CFU/100mL	Presence	Presence	Presence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 8	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 9	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf
2525	E.coli - Sample 10	CFU/100mL	Absence	Absence	Absence	Acceptable	SM9223 COLert18 23rd ED 2016	1/17/2022				dmf

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

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



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WS WS SourceWatR™ MicrobE™ (cat# 595, lot# S306-078)

2500	Total Coliforms (MF)	CFU/100mL		70.0	43.0 - 112	Not Reported				69.5	17.4	
2530	Fecal Coliforms (MF)	CFU/100mL		43.0	22.0 - 84.0	Not Reported				42.6	15.7	
2525	E.coli (MF)	CFU/100mL		62.0	33.0 - 113	Not Reported				61.5	19.9	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	88.2	92.9	59.0 - 146	Acceptable	SM9223 COLertQT 23rd ED 2016	1/17/2022	-0.0169	92.9	21.9	
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL		76.5	34.5 - 170	Not Reported				76.5	33.8	
2525	E.coli (MPN-Multiple Well)	MPN/100mL	88.2	91.0	57.2 - 145	Acceptable	SM9223 COLertQT 23rd ED 2016	1/17/2022	-0.0101	91.0	21.9	

WS WS SourceWatR™ MicrobE™ (cat# 595, lot# S306-078)

2500	Total Coliforms (MF)	CFU/100mL		70.0	43.0 - 112	Not Reported				69.5	17.4	
2530	Fecal Coliforms (MF)	CFU/100mL		43.0	22.0 - 84.0	Not Reported				42.6	15.7	
2525	E.coli (MF)	CFU/100mL		62.0	33.0 - 113	Not Reported				61.5	19.9	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	79.4	92.9	59.0 - 146	Acceptable	SM9223 COL18QT 23rd ED 2016	1/17/2022	-0.0510	92.9	21.9	
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL		76.5	34.5 - 170	Not Reported				76.5	33.8	
2525	E.coli (MPN-Multiple Well)	MPN/100mL	79.4	91.0	57.2 - 145	Acceptable	SM9223 COL18QT 23rd ED 2016	1/17/2022	-0.0441	91.0	21.9	

WS Heterotrophic Plate Count (cat# 079, lot# S306-084)

2555	Heterotrophic Plate Count (MF, PP)	CFU/mL		276	215 - 356	Not Reported				276	35.3	
2555	Heterotrophic Plate Count (MPN)	MPN/mL	620	251	148 - 425	Not Acceptable	Simplate 2000	1/17/2022	0.213	251	69.3	



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Final Evaluation Report

Study: **WS-306**

ERA Customer Number: **E772828**

Laboratory Name: **Energy Laboratories**

Organic Results



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Study # : WS-306





A Waters Company

WS-306 Final Evaluation Report

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WS Carbamate/Carbamoyloxime Pesticides (cat# 846, lot# S306-707)

7010	Aldicarb	µg/L	36.7	33.6	25.2 - 42.0	Acceptable	EPA 531.1 3.1 1995	1/28/2022	0.460	34.7	4.41	ljl
7015	Aldicarb sulfone	µg/L	85.7	78.4	58.8 - 98.0	Acceptable	EPA 531.1 3.1 1995	1/28/2022	0.793	80.5	6.62	ljl
7020	Aldicarb sulfoxide	µg/L	46.8	39.8	29.8 - 49.8	Acceptable	EPA 531.1 3.1 1995	1/28/2022	0.687	42.1	6.79	ljl
8080	Baygon	µg/L	105	95.0	77.9 - 112	Acceptable	EPA 531.1 3.1 1995	1/28/2022	0.334	101	12.1	ljl
7195	Carbaryl	µg/L	65	59.7	44.8 - 74.6	Acceptable	EPA 531.1 3.1 1995	1/28/2022	0.668	60.1	7.40	ljl
7205	Carbofuran	µg/L	69.1	61.5	33.8 - 89.2	Acceptable	EPA 531.1 3.1 1995	1/28/2022	0.667	63.3	8.68	ljl
7710	3-Hydroxycarbofuran	µg/L	23.4	22.4	17.9 - 26.9	Acceptable	EPA 531.1 3.1 1995	1/28/2022	0.354	22.6	2.12	ljl
7800	Methiocarb	µg/L	134	127	98.5 - 149	Acceptable	EPA 531.1 3.1 1995	1/28/2022	0.573	126	13.2	ljl
7805	Methomyl	µg/L	40.5	35.1	28.1 - 42.1	Acceptable	EPA 531.1 3.1 1995	1/28/2022	1.03	36.7	3.74	ljl
7940	Oxamyl (vydate)	µg/L	44.6	36.6	27.4 - 45.8	Acceptable	EPA 531.1 3.1 1995	1/28/2022	1.11	39.5	4.59	ljl

WS Regulated Semivolatiles #2 Herbicides (cat# 849, lot# S306-691)

9390	Diquat	µg/L	15.7	24.7	12.4 - 37.0	Acceptable	EPA 549.2 1 1997	1/28/2022	-1.89	21.1	2.87	ljl
7525	Endothall	µg/L		196	98.0 - 294	Not Reported				213	37.3	
9411	Glyphosate	µg/L	450	465	372 - 558	Acceptable	EPA 547 1990	1/28/2022	-0.904	493	47.9	ljl
9528	Paraquat	µg/L		78.4	37.2 - 87.4	Not Reported				46.8	6.49	



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CERTIFICATE OF RECOGNITION

ERA congratulates
Energy Laboratories
WS-306

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
Inorganic Disinfection #2	Metals	MicrobE™ (Coliforms)
Nitrite	o-Phosphate Nutrients	Organic Carbon
pH	Regulated Semivolatiles	Silica
	#2 Herbicides	
Turbidity	Uranium	WS SourceWatR™ MicrobE™



Matthew Seebeck
Quality Officer