



A Waters Company

# WP-312 Final Evaluation Report

**Josh Kirkpatrick**  
Quality Assurance Manager  
Basic Laboratory, Inc.  
2218 Railroad Ave  
Redding, CA 96001  
(530) 243-7234-204

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

**CA00381**  
**B062101**  
**03/09/21**  
**01/19/21 - 03/05/21**

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
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**WP Minerals (cat# 581, lot# P312-506)**

1505	Alkalinity as CaCO3	mg/L	88	95.5	81.2 - 110	Acceptable	SM 2320 B-2011 2011	2/1/2021	-2.26	95.6	3.34	Rebecca Goerner
1575	Chloride	mg/L	77.9	77.8	68.0 - 87.8	Acceptable	EPA 300.0 2.1 1993	1/29/2021	-0.324	78.9	2.94	Rebecca Goerner
1610	Conductivity at 25°C	µmhos/cm	490	498	448 - 548	Acceptable	SM 2510 B-2011 2011	2/8/2021	-0.471	497	14.1	Rebecca Goerner
1730	Fluoride	mg/L	3.31	3.39	2.74 - 3.90	Acceptable	EPA 300.0 2.1 1993	1/29/2021	-0.581	3.43	0.208	Rebecca Goerner
1125	Potassium	mg/L	22.2	22.0	17.6 - 26.4	Acceptable	EPA 200.7 4.4 1994	1/29/2021	-0.108	22.3	1.22	Brittany Light
1155	Sodium	mg/L	92.7	92.4	73.9 - 111	Acceptable	EPA 200.7 4.4 1994	1/29/2021	-0.239	93.8	4.67	Brittany Light
2000	Sulfate	mg/L	17.8	18.4	14.4 - 21.6	Acceptable	EPA 300.0 2.1 1993	1/29/2021	-0.625	18.5	1.05	Rebecca Goerner
1955	Total Dissolved Solids at 180°C	mg/L	375	375	330 - 420	Acceptable	SM 2540 C-2011 2011	2/18/2021	-0.0643	376	19.6	Nikki Aceituno
1950	Total Solids at 105°C	mg/L	390	398	353 - 443	Acceptable	SM 2540 B-2011 2011	2/8/2021	-0.0387	391	22.3	Jon Cartee

**WP Minerals (cat# 581, lot# P312-506)**

1505	Alkalinity as CaCO3	mg/L		95.5	81.2 - 110	Not Reported				95.6	3.34	
1575	Chloride	mg/L		77.8	68.0 - 87.8	Not Reported				78.9	2.94	
1610	Conductivity at 25°C	µmhos/cm		498	448 - 548	Not Reported				497	14.1	
1730	Fluoride	mg/L		3.39	2.74 - 3.90	Not Reported				3.43	0.208	
1125	Potassium	mg/L	22.8	22.0	17.6 - 26.4	Acceptable	EPA 200.8 5.4 1994	2/9/2021	0.385	22.3	1.22	Eric Mathews
1155	Sodium	mg/L	95.1	92.4	73.9 - 111	Acceptable	EPA 200.8 5.4 1994	2/9/2021	0.275	93.8	4.67	Eric Mathews
2000	Sulfate	mg/L		18.4	14.4 - 21.6	Not Reported				18.5	1.05	
1955	Total Dissolved Solids at 180°C	mg/L		375	330 - 420	Not Reported				376	19.6	
1950	Total Solids at 105°C	mg/L		398	353 - 443	Not Reported				391	22.3	



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.

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**WP Hardness (cat# 580, lot# P312-507)**

1960	Total Suspended Solids	mg/L	87.2	88.8	73.0 - 98.5	Acceptable	SM 2540 D-2011 2011	1/29/2021	0.0755	86.9	4.43	Merle McCullough
1035	Calcium	mg/L		29.5	25.1 - 33.9	Not Reported				30.2	1.46	
1085	Magnesium	mg/L		35.9	30.5 - 41.3	Not Reported				36.6	1.63	
1550	Calcium Hardness as CaCO3	mg/L		73.5	62.5 - 84.5	Not Reported				75.8	3.49	
1755	Total Hardness as CaCO3	mg/L	211	221	188 - 254	Acceptable	SM 2340 C-2011 2011	1/29/2021	-1.42	225	9.61	Eric Mathews

**WP Hardness (cat# 580, lot# P312-507)**

1960	Total Suspended Solids	mg/L		88.8	73.0 - 98.5	Not Reported				86.9	4.43	
1035	Calcium	mg/L	30.8	29.5	25.1 - 33.9	Acceptable	EPA 200.7 4.4 1994	1/29/2021	0.412	30.2	1.46	Brittany Light
1085	Magnesium	mg/L	37.1	35.9	30.5 - 41.3	Acceptable	EPA 200.7 4.4 1994	1/29/2021	0.316	36.6	1.63	Brittany Light
1550	Calcium Hardness as CaCO3	mg/L		73.5	62.5 - 84.5	Not Reported				75.8	3.49	
1755	Total Hardness as CaCO3	mg/L	230	221	188 - 254	Acceptable	SM 2340 B-2011 2011	1/29/2021	0.559	225	9.61	Brittany Light

**WP Hardness (cat# 580, lot# P312-507)**

1960	Total Suspended Solids	mg/L		88.8	73.0 - 98.5	Not Reported				86.9	4.43	
1035	Calcium	mg/L	29.8	29.5	25.1 - 33.9	Acceptable	EPA 200.8 5.4 1994	2/9/2021	-0.274	30.2	1.46	Eric Mathews
1085	Magnesium	mg/L	36.8	35.9	30.5 - 41.3	Acceptable	EPA 200.8 5.4 1994	2/9/2021	0.133	36.6	1.63	Eric Mathews
1550	Calcium Hardness as CaCO3	mg/L		73.5	62.5 - 84.5	Not Reported				75.8	3.49	
1755	Total Hardness as CaCO3	mg/L		221	188 - 254	Not Reported				225	9.61	

**WP pH (cat# 577, lot# P312-977)**

1900	pH	S.U.	6.82	6.76	6.56 - 6.96	Acceptable	SM 4500-H+ B-2011 2011	1/28/2021	-0.00733	6.82	0.0477	Jon Cartee
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**WP pH (cat# 577, lot# P312-977)**

1900	pH	S.U.	6.82	6.76	6.56 - 6.96	Acceptable	EPA 9040B 2 1995	1/28/2021	-0.00733	6.82	0.0477	Jon Cartee
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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.





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**WP Settleable Solids (cat# 883, lot# P312-911)**

1965	Settleable Solids	mL/L	10.0	10.6	7.79 - 14.3	Acceptable	SM 2540 F-2011 2011	1/28/2021	-0.912	11.0	1.06	
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**WP Simple Nutrients (cat# 584, lot# P312-505)**

1515	Ammonia as N	mg/L	14.7	14.4	11.6 - 17.1	Acceptable	EPA 350.1 2 1993	2/2/2021	0.330	14.4	0.928	Jon Cartee
1820	Nitrate + Nitrite as N	mg/L	22.8	22.9	19.2 - 26.4	Acceptable	EPA 353.2 2 1993	2/2/2021	-0.111	22.9	1.14	Jon Cartee
1810	Nitrate as N	mg/L	22.8	22.9	19.2 - 26.5	Acceptable	EPA 353.2 (calc)	2/2/2021	-0.0572	22.9	1.10	Jon Cartee
1870	ortho-Phosphate as P	mg/L	2.71	2.69	2.29 - 3.09	Acceptable	SM 4500-P E-2011 2011	2/2/2021	0.187	2.69	0.133	Jon Cartee

**WP Simple Nutrients (cat# 584, lot# P312-505)**

1515	Ammonia as N	mg/L		14.4	11.6 - 17.1	Not Reported				14.4	0.928	
1820	Nitrate + Nitrite as N	mg/L	22.4	22.9	19.2 - 26.4	Acceptable	EPA 300.0 2.1 1993	2/2/2021	-0.461	22.9	1.14	Jon Cartee
1810	Nitrate as N	mg/L	22.4	22.9	19.2 - 26.5	Acceptable	EPA 300.0 2.1 1993	2/2/2021	-0.420	22.9	1.10	Jon Cartee
1870	ortho-Phosphate as P	mg/L		2.69	2.29 - 3.09	Not Reported				2.69	0.133	

**WP Complex Nutrients (cat# 579, lot# P312-525)**

1795	Total Kjeldahl Nitrogen	mg/L	12.9	13.4	9.92 - 16.5	Acceptable	EPA 351.2 2 1993	2/15/2021	-0.229	13.1	1.03	Jon Cartee
1910	Total phosphorus as P	mg/L	2.47	2.43	1.98 - 2.87	Acceptable	SM 4500-P E-2011 2011	2/8/2021	0.576	2.38	0.157	Taylor Needham

**WP Nitrite (cat# 888, lot# P312-770)**

1840	Nitrite as N	mg/L	1.38	1.44	1.20 - 1.68	Acceptable	EPA 300.0 2.1 1993	2/2/2021	-0.818	1.45	0.0841	Jon Cartee
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**WP Nitrite (cat# 888, lot# P312-770)**

1840	Nitrite as N	mg/L	1.48	1.44	1.20 - 1.68	Acceptable	EPA 353.2 2 1993	2/2/2021	0.371	1.45	0.0841	Jon Cartee
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**WP Nitrite (cat# 888, lot# P312-770)**

1840	Nitrite as N	mg/L	1.51	1.44	1.20 - 1.68	Acceptable	SM 4500-NO2 B-2011 2011	2/2/2021	0.728	1.45	0.0841	Jon Cartee
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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.





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**WP Demand (cat# 578, lot# P312-516)**

1530	BOD	mg/L	36	41.1	21.1 - 61.1	Acceptable	SM 5210 B-2011 2011	2/15/2021	-0.676	40.8	7.14	Jon Cartee
1555	CBOD	mg/L	31	37.2	16.0 - 58.4	Acceptable	SM 5210 B-2011 2011	2/15/2021	-1.07	38.7	7.16	Jon Cartee
1565	COD	mg/L	60	66.2	47.2 - 82.5	Acceptable	SM 5220 D-2011 2011	2/10/2021	-0.765	65.0	6.50	Steve Walker
2040	TOC	mg/L	25.3	26.1	21.3 - 30.8	Acceptable	SM 5310 C-2011 2011	2/10/2021	-0.562	26.3	1.69	Erich Bowman

**WP Demand (cat# 578, lot# P312-516)**

1530	BOD	mg/L		41.1	21.1 - 61.1	Not Reported				40.8	7.14	
1555	CBOD	mg/L		37.2	16.0 - 58.4	Not Reported				38.7	7.16	
1565	COD	mg/L	60	66.2	47.2 - 82.5	Acceptable	HACH 8000	2/10/2021	-0.765	65.0	6.50	Steve Walker
2040	TOC	mg/L		26.1	21.3 - 30.8	Not Reported				26.3	1.69	

**WP Oil & Grease (cat# 582, lot# P312-518)**

1803	n-Hexane Extractable Material(O&G)(Grav)	mg/L	98.2	106	75.7 - 123	Acceptable	EPA 1664A 1999	2/2/2021	-0.126	99.2	7.93	Erich Bowman
1803	n-Hexane Extractable Material(O&G)(IR)	mg/L		131	95.1 - 150	Not Reported				89.1	43.5	

**WP Oil & Grease (cat# 582, lot# P312-518)**

1803	n-Hexane Extractable Material(O&G)(Grav)	mg/L	98.2	106	75.7 - 123	Acceptable	EPA 1664B 2010	2/2/2021	-0.126	99.2	7.93	Erich Bowman
1803	n-Hexane Extractable Material(O&G)(IR)	mg/L		131	95.1 - 150	Not Reported				89.1	43.5	



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.





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## WP Trace Metals (cat# 586, lot# P312-500)

1000	Aluminum	µg/L	3380	3730	3110 - 4230	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-2.09	3790	196	Brittany Light
1005	Antimony	µg/L	92	96.1	61.7 - 126	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.279	93.6	5.91	Brittany Light
1010	Arsenic	µg/L	739	783	663 - 892	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.366	751	33.2	Brittany Light
1015	Barium	µg/L	1910	1950	1660 - 2240	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.530	1960	86.6	Brittany Light
1020	Beryllium	µg/L	378	419	356 - 482	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-1.88	414	19.3	Brittany Light
1025	Boron	µg/L	831	893	759 - 1030	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-1.10	887	50.8	Brittany Light
1030	Cadmium	µg/L	703	740	629 - 851	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.770	724	27.5	Brittany Light
1040	Chromium	µg/L	177	183	156 - 210	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-1.11	185	7.46	Brittany Light
1050	Cobalt	µg/L	228	228	194 - 262	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.590	234	10.3	Brittany Light
1055	Copper	µg/L	862	864	734 - 994	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.0113	862	37.3	Brittany Light
1070	Iron	µg/L	2760	2700	2300 - 3100	Acceptable	EPA 200.7 4.4 1994	2/2/2021	0.153	2740	120	Brittany Light
1075	Lead	µg/L	381	384	326 - 442	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.356	388	18.6	Brittany Light
1090	Manganese	µg/L	1070	1070	910 - 1230	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.111	1080	46.0	Brittany Light
1100	Molybdenum	µg/L	211	219	186 - 250	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.605	217	9.34	Brittany Light
1105	Nickel	µg/L	449	429	372 - 490	Acceptable	EPA 200.7 4.4 1994	2/2/2021	0.449	439	21.4	Brittany Light
1140	Selenium	µg/L	251	266	226 - 306	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.820	264	15.3	Brittany Light
1150	Silver	µg/L	865	835	710 - 960	Acceptable	EPA 200.7 4.4 1994	2/2/2021	0.620	839	41.9	Brittany Light
1160	Strontium	µg/L	355	356	303 - 409	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.290	359	14.8	Brittany Light
1165	Thallium	µg/L	219	220	173 - 262	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-0.00963	219	12.6	Brittany Light
1185	Vanadium	µg/L	481	509	433 - 585	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-1.15	506	21.9	Brittany Light



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**WP Trace Metals (cat# 586, lot# P312-500) (Continued)**

1190	Zinc	µg/L	1640	1730	1470 - 1990	Acceptable	EPA 200.7 4.4 1994	2/2/2021	-1.05	1720	72.3	Brittany Light
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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.

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**WP Trace Metals (cat# 586, lot# P312-500)**

1000	Aluminum	µg/L	3780	3730	3110 - 4230	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.0453	3790	196	Eric Mathews
1005	Antimony	µg/L	93.2	96.1	61.7 - 126	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.0758	93.6	5.91	Eric Mathews
1010	Arsenic	µg/L	774	783	663 - 892	Acceptable	EPA 200.8 5.4 1994	1/30/2021	0.687	751	33.2	Eric Mathews
1015	Barium	µg/L	1910	1950	1660 - 2240	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.530	1960	86.6	Eric Mathews
1020	Beryllium	µg/L	401	419	356 - 482	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.683	414	19.3	Eric Mathews
1025	Boron	µg/L	891	893	759 - 1030	Acceptable	EPA 200.8 5.4 1994	1/30/2021	0.0777	887	50.8	Eric Mathews
1030	Cadmium	µg/L	707	740	629 - 851	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.624	724	27.5	Eric Mathews
1040	Chromium	µg/L	179	183	156 - 210	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.841	185	7.46	Eric Mathews
1050	Cobalt	µg/L	226	228	194 - 262	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.785	234	10.3	Eric Mathews
1055	Copper	µg/L	873	864	734 - 994	Acceptable	EPA 200.8 5.4 1994	1/30/2021	0.283	862	37.3	Eric Mathews
1070	Iron	µg/L	2730	2700	2300 - 3100	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.0976	2740	120	Eric Mathews
1075	Lead	µg/L	401	384	326 - 442	Acceptable	EPA 200.8 5.4 1994	1/30/2021	0.720	388	18.6	Eric Mathews
1090	Manganese	µg/L	1080	1070	910 - 1230	Acceptable	EPA 200.8 5.4 1994	1/30/2021	0.107	1080	46.0	Eric Mathews
1100	Molybdenum	µg/L	207	219	186 - 250	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-1.03	217	9.34	Eric Mathews
1105	Nickel	µg/L	438	429	372 - 490	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.0654	439	21.4	Eric Mathews
1140	Selenium	µg/L	262	266	226 - 306	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.103	264	15.3	Eric Mathews
1150	Silver	µg/L	842	835	710 - 960	Acceptable	EPA 200.8 5.4 1994	2/5/2021	0.0714	839	41.9	Brittany Light
1160	Strontium	µg/L	350	356	303 - 409	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.628	359	14.8	Eric Mathews
1165	Thallium	µg/L	229	220	173 - 262	Acceptable	EPA 200.8 5.4 1994	1/30/2021	0.783	219	12.6	Eric Mathews
1185	Vanadium	µg/L	514	509	433 - 585	Acceptable	EPA 200.8 5.4 1994	1/30/2021	0.355	506	21.9	Eric Mathews



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.

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Study #: WP-312



A Waters Company

# WP-312 Final Evaluation Report

**Josh Kirkpatrick**  
Quality Assurance Manager  
Basic Laboratory, Inc.  
2218 Railroad Ave  
Redding, CA 96001  
(530) 243-7234-204

**EPA ID:** CA00381  
**ERA Customer Number:** B062101  
**Report Issued:** 03/09/21  
**Study Dates:** 01/19/21 - 03/05/21

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
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**WP Trace Metals (cat# 586, lot# P312-500) (Continued)**

1190	Zinc	µg/L	1660	1730	1470 - 1990	Acceptable	EPA 200.8 5.4 1994	1/30/2021	-0.770	1720	72.3	Eric Mathews
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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.

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**WP Trace Metals (cat# 586, lot# P312-500)**

1000	Aluminum	µg/L		3730	3110 - 4230	Not Reported				3790	196	
1005	Antimony	µg/L	95	96.1	61.7 - 126	Acceptable	EPA 6010B 2 1996	2/2/2021	0.229	93.6	5.91	Brittany Light
1010	Arsenic	µg/L	760	783	663 - 892	Acceptable	EPA 6010B 2 1996	2/2/2021	0.266	751	33.2	Brittany Light
1015	Barium	µg/L	1960	1950	1660 - 2240	Acceptable	EPA 6010B 2 1996	2/2/2021	0.0469	1960	86.6	Brittany Light
1020	Beryllium	µg/L	428	419	356 - 482	Acceptable	EPA 6010B 2 1996	2/2/2021	0.717	414	19.3	Brittany Light
1025	Boron	µg/L		893	759 - 1030	Not Reported				887	50.8	
1030	Cadmium	µg/L	715	740	629 - 851	Acceptable	EPA 6010B 2 1996	2/2/2021	-0.333	724	27.5	Brittany Light
1040	Chromium	µg/L	192	183	156 - 210	Acceptable	EPA 6010B 2 1996	2/2/2021	0.902	185	7.46	Brittany Light
1050	Cobalt	µg/L	232	228	194 - 262	Acceptable	EPA 6010B 2 1996	2/2/2021	-0.200	234	10.3	Brittany Light
1055	Copper	µg/L	908	864	734 - 994	Acceptable	EPA 6010B 2 1996	2/2/2021	1.22	862	37.3	Brittany Light
1070	Iron	µg/L		2700	2300 - 3100	Not Reported				2740	120	
1075	Lead	µg/L	389	384	326 - 442	Acceptable	EPA 6010B 2 1996	2/2/2021	0.0745	388	18.6	Brittany Light
1090	Manganese	µg/L		1070	910 - 1230	Not Reported				1080	46.0	
1100	Molybdenum	µg/L	217	219	186 - 250	Acceptable	EPA 6010B 2 1996	2/2/2021	0.0370	217	9.34	Brittany Light
1105	Nickel	µg/L	459	429	372 - 490	Acceptable	EPA 6010B 2 1996	2/2/2021	0.917	439	21.4	Brittany Light
1140	Selenium	µg/L	258	266	226 - 306	Acceptable	EPA 6010B 2 1996	2/2/2021	-0.363	264	15.3	Brittany Light
1150	Silver	µg/L	901	835	710 - 960	Acceptable	EPA 6010B 2 1996	2/2/2021	1.48	839	41.9	Brittany Light
1160	Strontium	µg/L		356	303 - 409	Not Reported				359	14.8	
1165	Thallium	µg/L	226	220	173 - 262	Acceptable	EPA 6010B 2 1996	2/2/2021	0.545	219	12.6	Brittany Light
1185	Vanadium	µg/L	495	509	433 - 585	Acceptable	EPA 6010B 2 1996	2/2/2021	-0.513	506	21.9	Brittany Light



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.

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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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**WP Trace Metals (cat# 586, lot# P312-500) (Continued)**

1190	Zinc	µg/L	1690	1730	1470 - 1990	Acceptable	EPA 6010B 2 1996	2/2/2021	-0.355	1720	72.3	Brittany Light
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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.

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**WP Trace Metals (cat# 586, lot# P312-500)**

1000	Aluminum	µg/L		3730	3110 - 4230	Not Reported				3790	196	
1005	Antimony	µg/L	95.4	96.1	61.7 - 126	Acceptable	EPA 6020	2/18/2021	0.296	93.6	5.91	Brittany Light
1010	Arsenic	µg/L	804	783	663 - 892	Acceptable	EPA 6020	2/18/2021	1.59	751	33.2	Brittany Light
1015	Barium	µg/L	1950	1950	1660 - 2240	Acceptable	EPA 6020	2/18/2021	-0.0686	1960	86.6	Brittany Light
1020	Beryllium	µg/L	459	419	356 - 482	Acceptable	EPA 6020	2/18/2021	2.33	414	19.3	Brittany Light
1025	Boron	µg/L		893	759 - 1030	Not Reported				887	50.8	
1030	Cadmium	µg/L	752	740	629 - 851	Acceptable	EPA 6020	2/18/2021	1.01	724	27.5	Brittany Light
1040	Chromium	µg/L	185	183	156 - 210	Acceptable	EPA 6020	2/18/2021	-0.0368	185	7.46	Brittany Light
1050	Cobalt	µg/L	235	228	194 - 262	Acceptable	EPA 6020	2/18/2021	0.0918	234	10.3	Brittany Light
1055	Copper	µg/L	892	864	734 - 994	Acceptable	EPA 6020	2/18/2021	0.792	862	37.3	Brittany Light
1070	Iron	µg/L		2700	2300 - 3100	Not Reported				2740	120	
1075	Lead	µg/L	404	384	326 - 442	Acceptable	EPA 6020	2/18/2021	0.882	388	18.6	Brittany Light
1090	Manganese	µg/L		1070	910 - 1230	Not Reported				1080	46.0	
1100	Molybdenum	µg/L	215	219	186 - 250	Acceptable	EPA 6020	2/18/2021	-0.177	217	9.34	Brittany Light
1105	Nickel	µg/L	447	429	372 - 490	Acceptable	EPA 6020	2/18/2021	0.356	439	21.4	Brittany Light
1140	Selenium	µg/L	278	266	226 - 306	Acceptable	EPA 6020	2/18/2021	0.940	264	15.3	Brittany Light
1150	Silver	µg/L	879	835	710 - 960	Acceptable	EPA 6020	2/18/2021	0.954	839	41.9	Brittany Light
1160	Strontium	µg/L		356	303 - 409	Not Reported				359	14.8	
1165	Thallium	µg/L	230	220	173 - 262	Acceptable	EPA 6020	2/18/2021	0.862	219	12.6	Brittany Light
1185	Vanadium	µg/L	518	509	433 - 585	Acceptable	EPA 6020	2/18/2021	0.538	506	21.9	Brittany Light



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.





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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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**WP Trace Metals (cat# 586, lot# P312-500) (Continued)**

1190	Zinc	µg/L	1720	1730	1470 - 1990	Acceptable	EPA 6020	2/18/2021	0.0594	1720	72.3	Brittany Light
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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.

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Study # : WP-312



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# WP-312 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
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**WP Trace Metals (cat# 586, lot# P312-500)**

1000	Aluminum	µg/L	3970	3730	3110 - 4230	Acceptable	EPA 1638	2/10/2021	0.925	3790	196	Eric Mathews
1005	Antimony	µg/L	94.0	96.1	61.7 - 126	Acceptable	EPA 1638	2/10/2021	0.0595	93.6	5.91	Eric Mathews
1010	Arsenic	µg/L	773	783	663 - 892	Acceptable	EPA 1638	2/10/2021	0.657	751	33.2	Eric Mathews
1015	Barium	µg/L	1990	1950	1660 - 2240	Acceptable	EPA 1638	2/10/2021	0.393	1960	86.6	Eric Mathews
1020	Beryllium	µg/L	412	419	356 - 482	Acceptable	EPA 1638	2/10/2021	-0.112	414	19.3	Eric Mathews
1025	Boron	µg/L	877	893	759 - 1030	Acceptable	EPA 1638	2/10/2021	-0.198	887	50.8	Eric Mathews
1030	Cadmium	µg/L	735	740	629 - 851	Acceptable	EPA 1638	2/10/2021	0.394	724	27.5	Eric Mathews
1040	Chromium	µg/L	188	183	156 - 210	Acceptable	EPA 1638	2/10/2021	0.365	185	7.46	Eric Mathews
1050	Cobalt	µg/L	236	228	194 - 262	Acceptable	EPA 1638	2/10/2021	0.189	234	10.3	Eric Mathews
1055	Copper	µg/L	877	864	734 - 994	Acceptable	EPA 1638	2/10/2021	0.391	862	37.3	Eric Mathews
1070	Iron	µg/L	2730	2700	2300 - 3100	Acceptable	EPA 1638	2/10/2021	-0.0976	2740	120	Eric Mathews
1075	Lead	µg/L	396	384	326 - 442	Acceptable	EPA 1638	2/10/2021	0.451	388	18.6	Eric Mathews
1090	Manganese	µg/L	1100	1070	910 - 1230	Acceptable	EPA 1638	2/10/2021	0.542	1080	46.0	Eric Mathews
1100	Molybdenum	µg/L	222	219	186 - 250	Acceptable	EPA 1638	2/10/2021	0.572	217	9.34	Eric Mathews
1105	Nickel	µg/L	440	429	372 - 490	Acceptable	EPA 1638	2/10/2021	0.0281	439	21.4	Eric Mathews
1140	Selenium	µg/L	273	266	226 - 306	Acceptable	EPA 1638	2/10/2021	0.614	264	15.3	Eric Mathews
1150	Silver	µg/L	844	835	710 - 960	Acceptable	EPA 1638	2/10/2021	0.119	839	41.9	Eric Mathews
1160	Strontium	µg/L	358	356	303 - 409	Acceptable	EPA 1638	2/10/2021	-0.0875	359	14.8	Eric Mathews
1165	Thallium	µg/L	227	220	173 - 262	Acceptable	EPA 1638	2/10/2021	0.624	219	12.6	Eric Mathews
1185	Vanadium	µg/L	505	509	433 - 585	Acceptable	EPA 1638	2/10/2021	-0.0560	506	21.9	Eric Mathews



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.





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**WP Trace Metals (cat# 586, lot# P312-500) (Continued)**

1190	Zinc	µg/L	1750	1730	1470 - 1990	Acceptable	EPA 1638	2/10/2021	0.474	1720	72.3	Eric Mathews
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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.

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**WP Trace Metals (cat# 586, lot# P312-500)**

1000	Aluminum	µg/L		3730	3110 - 4230	Not Reported				3790	196	
1005	Antimony	µg/L		96.1	61.7 - 126	Not Reported				93.6	5.91	
1010	Arsenic	µg/L		783	663 - 892	Not Reported				751	33.2	
1015	Barium	µg/L		1950	1660 - 2240	Not Reported				1960	86.6	
1020	Beryllium	µg/L		419	356 - 482	Not Reported				414	19.3	
1025	Boron	µg/L		893	759 - 1030	Not Reported				887	50.8	
1030	Cadmium	µg/L	744	740	629 - 851	Acceptable	EPA 7131A 1 1994	2/18/2021	0.722	724	27.5	Taylor Needham
1040	Chromium	µg/L		183	156 - 210	Not Reported				185	7.46	
1050	Cobalt	µg/L		228	194 - 262	Not Reported				234	10.3	
1055	Copper	µg/L		864	734 - 994	Not Reported				862	37.3	
1070	Iron	µg/L		2700	2300 - 3100	Not Reported				2740	120	
1075	Lead	µg/L		384	326 - 442	Not Reported				388	18.6	
1090	Manganese	µg/L		1070	910 - 1230	Not Reported				1080	46.0	
1100	Molybdenum	µg/L		219	186 - 250	Not Reported				217	9.34	
1105	Nickel	µg/L		429	372 - 490	Not Reported				439	21.4	
1140	Selenium	µg/L		266	226 - 306	Not Reported				264	15.3	
1150	Silver	µg/L		835	710 - 960	Not Reported				839	41.9	
1160	Strontium	µg/L		356	303 - 409	Not Reported				359	14.8	
1165	Thallium	µg/L		220	173 - 262	Not Reported				219	12.6	
1185	Vanadium	µg/L		509	433 - 585	Not Reported				506	21.9	



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

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### WP Trace Metals (cat# 586, lot# P312-500) (Continued)

1190	Zinc	µg/L		1730	1470 - 1990	Not Reported				1720	72.3	
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### WP Mercury (cat# 574, lot# P312-514)

1095	Mercury	µg/L	13.4	13.7	9.59 - 17.8	Acceptable	EPA 245.1 3 1994	2/5/2021	-0.132	13.5	1.12	Taylor Needham
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### WP Mercury (cat# 574, lot# P312-514)

1095	Mercury	µg/L	13.4	13.7	9.59 - 17.8	Acceptable	EPA 7470A 1 1994	2/5/2021	-0.132	13.5	1.12	Taylor Needham
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### WP Low-Level Mercury (cat# 896, lot# P312-931)

1095	Low Level Mercury	ng/L	86.9	83.1	64.1 - 101	Acceptable	EPA 1631E 2002	1/21/2021	0.0788	86.4	6.56	Donnella Cardwell
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### WP Hexavalent Chromium (cat# 898, lot# P312-984)

1045	Hexavalent Chromium	µg/L	248	249	206 - 290	Acceptable	SM 3500-Cr B-2011 2011	2/4/2021	0.0468	247	13.7	Jon Cartee
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### WP Hexavalent Chromium (cat# 898, lot# P312-984)

1045	Hexavalent Chromium	µg/L	257	249	206 - 290	Acceptable	EPA 218.6 3.3 1994	2/4/2021	0.703	247	13.7	Erich Bowman
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### WP Hexavalent Chromium (cat# 898, lot# P312-984)

1045	Hexavalent Chromium	µg/L	248	249	206 - 290	Acceptable	EPA 7196A 1 1992	2/4/2021	0.0468	247	13.7	Jon Cartee
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### WP Turbidity (cat# 893, lot# P312-777)

2055	Turbidity	NTU	5.5	5.55	4.27 - 6.80	Acceptable	EPA 180.1 2 1993	1/28/2021	0.394	5.38	0.316	Jon Cartee
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### WP Turbidity (cat# 893, lot# P312-777)

2055	Turbidity	NTU	5.5	5.55	4.27 - 6.80	Acceptable	SM 2130 B-2011 2011	1/28/2021	0.394	5.38	0.316	Jon Cartee
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### WP Total Cyanide (cat# 588, lot# P312-502)

1645	Cyanide, total	mg/L	0.555	0.564	0.367 - 0.761	Acceptable	SM 4500-CN E-2011 2011	2/4/2021	0.0256	0.553	0.0646	Rebecca Goerner
1510	Amenable Cyanide	mg/L		0.261	0.170 - 0.352	Not Reported				0.294	0.0838	



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.

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Study # : WP-312







A Waters Company

# WP-312 Final Evaluation Report

**Josh Kirkpatrick**  
Quality Assurance Manager  
Basic Laboratory, Inc.  
2218 Railroad Ave  
Redding, CA 96001  
(530) 243-7234-204

**EPA ID:** CA00381  
**ERA Customer Number:** B062101  
**Report Issued:** 03/09/21  
**Study Dates:** 01/19/21 - 03/05/21

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
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**WP Total Cyanide (cat# 588, lot# P312-502)**

1645	Cyanide, total	mg/L	0.555	0.564	0.367 - 0.761	Acceptable	EPA 9014 1996	2/4/2021	0.0256	0.553	0.0646	Rebecca Goerner
1510	Amenable Cyanide	mg/L		0.261	0.170 - 0.352	Not Reported				0.294	0.0838	

**WP Total Cyanide (cat# 588, lot# P312-502)**

1645	Cyanide, total	mg/L	0.594	0.564	0.367 - 0.761	Acceptable	EPA 335.4 1993	2/4/2021	0.629	0.553	0.0646	Rebecca Goerner
1510	Amenable Cyanide	mg/L		0.261	0.170 - 0.352	Not Reported				0.294	0.0838	

**WP Total Phenolics (4-AAP) (cat# 589, lot# P312-515)**

1905	Phenolics, total	mg/L	3.65	3.02	1.54 - 4.51	Acceptable	EPA 420.1 1978	2/2/2021	0.979	3.06	0.604	Jon Cartee
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**WP Total Residual Chlorine (cat# 587, lot# P312-501)**

1945	Free Residual Chlorine	mg/L	0.94	0.907	0.678 - 1.10	Acceptable	SM 4500-Cl G-2011 2011	2/11/2021	0.221	0.924	0.0730	Jon Cartee
1940	Total Residual Chlorine	mg/L	0.98	0.948	0.708 - 1.14	Acceptable	SM 4500-Cl G-2011 2011	2/11/2021	0.651	0.944	0.0558	Jon Cartee



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.





# WP-312 Final Evaluation Report

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**CA00381**  
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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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**WP WasteWatR™ Coliform MicrobE™ (cat# 576, lot# P312-083)**

2500	Total Coliforms (MF)	CFU/100mL		189	85.0 - 419	Not Reported				189	55.7	
2530	Fecal Coliforms (MF)	CFU/100mL		99.0	30.0 - 329	Not Reported				98.6	49.9	
2525	E.coli (MF)	CFU/100mL		112	37.0 - 340	Not Reported				112	50.5	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	345	253	127 - 507	Acceptable	SM 9223 B (Colilert-18 Quanti-Tray)-2004 2004	1/28/2021	0.0744	253	63.4	Nikki Aceituno
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL		152	65.0 - 356	Not Reported				152	48.4	
2525	E.coli (MPN-Multiple Well)	MPN/100mL	345	249	119 - 518	Acceptable	SM 9223 B (Colilert-18 Quanti-Tray)-2004 2004	1/28/2021	0.0780	249	66.5	Nikki Aceituno

**WP WasteWatR™ Coliform MicrobE™ (cat# 576, lot# P312-083)**

2500	Total Coliforms (MF)	CFU/100mL		189	85.0 - 419	Not Reported				189	55.7	
2530	Fecal Coliforms (MF)	CFU/100mL		99.0	30.0 - 329	Not Reported				98.6	49.9	
2525	E.coli (MF)	CFU/100mL		112	37.0 - 340	Not Reported				112	50.5	
2500	Total Coliform (MPN-Multiple Well)	MPN/100mL	308	253	127 - 507	Acceptable	SM 9223 B (Colilert Quanti-Tray)-2004 2004	1/28/2021	0.0471	253	63.4	Nikki Aceituno
2530	Fecal Coliform (MPN-Multiple Well)	MPN/100mL		152	65.0 - 356	Not Reported				152	48.4	
2525	E.coli (MPN-Multiple Well)	MPN/100mL	308	249	119 - 518	Acceptable	SM 9223 B (Colilert Quanti-Tray)-2004 2004	1/28/2021	0.0510	249	66.5	Nikki Aceituno

**WP WasteWatR™ Coliform MicrobE™ - SM 9221 (cat# 576A, lot# P312-083A)**

2500	Total Coliform (MPN-Multiple Tube)	MPN/100mL	170	188	26.9 - 1310	Acceptable	SM 9221 B + C-2006 2006	2/4/2021	-0.0184	188	214	Nikki Aceituno
2530	Fecal Coliform (MPN-Multiple Tube)	MPN/100mL	170	165	22.1 - 1230	Acceptable	SM 9221 B + E + C-2006 2006	2/4/2021	0.00573	165	201	Nikki Aceituno
2525	E.coli (MPN-Multiple Tube)	MPN/100mL		157	29.7 - 829	Not Reported				157	133	



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.

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