

Walter C Voigt, Inc.  
**Culligan Water**  
2479 South Orange Ave  
Fresno, CA 93725  
Ph: (559) 233-3055 Fax: (559) 233-3230

Culligan Water is committed to providing complete and accurate information regarding the quality and safety of the water we provide our customers. The great-tasting water we provide is of the highest quality. Each and every drop of water must exceed a myriad of federal, state, industry and company standards. In fact, our water tastes so crisp and refreshing because we go through multiple processing steps that are monitored closely at our manufacturing facility to ensure every container meets or exceeds our quality standards. Specifically, federal, state and industry bottled water quality standards establish limits for microbiological, physical, chemical and radiological substances for both source water and bottled water products. Federal testing frequencies for these parameters are included in the Food and Drug Administration Good Manufacturing Practices for bottled water. Adherence to state, federal and industry bottled water quality standards ensures that every bottle we deliver to your home or office, will be safe to drink, and have a consistently great taste. The result is bottled water that has a crisp and refreshing taste every time you fill your glass.

In addition to existing stringent regulatory standards, the International Bottled Water Association (IBWA) maintains a strict Model Code of quality for its members. Culligan is a member of IBWA and meets or exceeds the quality requirements of the IBWA Model Code of Practice. Additionally, we take pride in the fact that our bottled water production plant is inspected annually, on an unannounced basis, by independent third-party organizations. These unannounced annual plant inspections coupled with annual product testing, ensure that the Culligan complies with federal and state bottled water regulations and the IBWA Model Code. For more information about IBWA and the IBWA Model Code of Practice, please visit their website at <http://www.bottledwater.org> or call IBWA at 1-800-WATER-11.

For the purpose of understanding this Consumer Confidence Report, the following definitions will be of assistance.

“Statement of quality” (SOQ)-The standard of quality for bottled water is the highest level of a contaminant that is allowed in a container of bottled water as established by the FDA and the CDPH. The standards can be no less protective of public health than the standards for public drinking water, established by the United States Environmental Protection Agency (EPA) or the CDPH.

“Public Health Goal” (PHG)-The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

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“Maximum Contaminant Level (MCL)-The highest level of a contaminant that is allowed in drinking water, established by the U.S. EPA or the CDPH. Primary MCLs are set as close to the PHGs as is economically and technologically feasible.

“Primary Drinking Water Standard”-MCLs for contaminants established by the U.S. EPA or the CDPH that affect health along with their monitoring and reporting requirements, and water treatment requirements.

***Where does my water come from?*** - Culligan water comes from Fresno City water, meeting all California State and Federal compliance. “The sources of bottled water include rivers, lakes, streams, ponds, reservoirs, springs, and wells... As water naturally travels over the surface of the land or through the ground, it can pick up naturally occurring substances as well as substances that are due to animal and human activity. Substances that may be present in the source water include any of the following: (1) Inorganic substances, including but not limited to, salts and metals, that can be naturally occurring or result from farming, urban storm water runoff, industrial or wastewater discharges, or oil and gas production. (2) Pesticides and herbicides that may come from a variety of sources, including but not limited to, agriculture, urban storm water runoff, and residential uses. (3) Organic substances that are byproducts of industrial processes and petroleum production and can also come from gas stations, urban storm water runoff, agricultural application, and septic systems. (4) Microbial organisms that may come from wildlife, agricultural livestock operations, sewage treatment plants, and septic systems. (5) Substances with radioactive properties that can be naturally occurring or be the result of oil and gas production and mining activities.”

***How is my water treated?*** - Culligan’s water is treated by the following processes to provide you with the quality product you enjoy.

Filtration – the use of filters to remove particulate material from source water

Micron filtration – the use of a micron filter to remove microbiological particles

Ozonation – a disinfection process

UV disinfection – use of ultraviolet light to disinfect source water

Reverse osmosis – use of a high-pressure pump and special membranes, called semi-permeable membranes, to reverse the natural phenomenon of osmosis

De-ionization – use of resin beds to remove undesirable elements

Demineralization – use of cation and anion resin beds to remove minerals

Granulated activated charcoal – used to remove chlorinated solvents and volatile organic compounds, etc.

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**Does my water meet FDA and State of California standards?-Yes.**  
Culligan's water meets all FDA and CDPH water quality standards.

**Why are contaminants in my water? -** Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the FDA Food and Cosmetic Hotline.

**1-888-723-3366**

“Some persons may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, including, but not limited to, persons with cancer who are undergoing chemotherapy, persons who have undergone organ transplants, persons with HIV/AIDS or other immune system disorders, some elderly persons, and infants can be particularly at risk from infections. These persons should seek advice about drinking water from their health care providers. The United States EPA and the Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).”



9399 West Higgins Road Suite 1100  
Rosemont, IL 60018

Phone: 847 430 1219  
Fax: 847 430 2219

### IBWA STANDARD OF QUALITY REPORT

Customer Name: Central Valley Culligan  
Customer Address: 2479 S Orange Ave  
Fresno, CA 93725

Page 1 of 18

Sample Date: 3/14/2019  
Sample Description: Purified  
Date Reviewed: 4/16/2019

Sample I.D. 1903168  
Report Date 4/16/2019

#### Inorganic Chemicals (IOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
7440-36-0	Antimony	ND	6.00	2.00	ug/L	200.8 R5.4
7440-39-3	Barium	ND	1,000.00	10.00	ug/L	200.7 R4.4
7940-41-7	Beryllium	ND	4.00	0.10	ug/L	200.8 R5.4
	Bromate (BrO3)	ND	10.00	2.50	ug/L	321.8 Rev. 1
7440-43-9	Cadmium (Cd)	ND	5.00	0.10	ug/L	200.8 R5.4
	Chloramine	ND	4.00	0.02	mg/L	330.5
	Chlorine Dioxide	0.02	0.80		mg/L	STND 4500
	Chlorine, Free	0.02	0.10		mg/L	330.5
	Chlorine, Total	0.02	0.10		mg/L	330.5
7440-47-3	Chromium	ND	50.00	0.50	ug/L	200.8 R5.4
16984-48-8	Fluoride	ND	3.00	0.20	mg/L	300.0 R2.1
7439-92-1	Lead (Pb)	ND	1.00	1.00	ug/L	200.8 R5.4
7439-97-6	Mercury (Hg)	ND	1.00	0.20	ug/L	245.1 Rev. 3
7440-02-0	Nickel (Ni)	ND	100.00	10.00	ug/L	200.7 R4.4
	Perchlorate	ND	2.00	2.00	ug/L	314.0
7782-49-2	Selenium (Se)	ND	10.00	2.00	ug/L	200.8 R5.4
7440-28-0	Thallium (Tl)	ND	2.00	1.00	ug/L	200.8 R5.4
7440-38-2	Total Arsenic	ND	10.00	1.00	ug/L	200.8 R5.4
	Total Chlorine	0.02			mg/L	330.5

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NELAP Certifications: IL-100213; PA-68-04623; NY-11756; TX-TX269-2007A

State Certifications: IL-IDPH-17598; CA-2958; MT-CERT0091; IA-369; VT-VT02199; WI-399016200;  
CO-IL100213; MI-9988

Maria Mozdzen  
Analytical Lab Manager

**IBWA STANDARD OF QUALITY REPORT**

<b>Secondary Inorganic Parameters</b>						
<b>CAS ID#</b>	<b>COMPOUNDS</b>	<b>RESULT</b>	<b>SOQ</b>	<b>MRL</b>	<b>Units</b>	<b>Method</b>
7429-90-5	Aluminum	ND	200.00	2.00	ug/L	200.8 R5.4
	Chloride	ND	250.00	0.50	mg/L	300.0 R2.1
7440-50-8	Copper (Cu)	ND	1.00	0.02	mg/L	200.7 R4.4
	Est TDS By Conductivity	1.17	500.00		mg/L	
7439-89-6	Iron (Fe)	ND		0.05	mg/L	200.7 R4.4
7439-96-5	Manganese (Mn)	ND	0.05	0.02	mg/L	200.7 R4.4
7440-22-4	Silver (Ag)	ND	25.00	0.10	ug/L	200.8 R5.4
14808-79-8	Sulfate	ND	250.00	3.00	mg/L	300.0 R2.1
7440-66-6	Zinc (Zn)	ND	5.00	0.05	mg/L	200.7 R4.4

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### IBWA STANDARD OF QUALITY REPORT

Additional Regulated Contaminants						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
7440-61-1	Uranium (U)	ND	30.00	2.00	ug/L	200.8 R5.4

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**IBWA STANDARD OF QUALITY REPORT**

<b>Water Properties</b>						
<b>CAS ID#</b>	<b>COMPOUNDS</b>	<b>RESULT</b>	<b>SOQ</b>	<b>MRL</b>	<b>Units</b>	<b>Method</b>
	Color	ND	5.00	5.00	color	SM2120C, 21Ed
	Color after Acidification	NM	5.00	5.00	color	SM2120C,21Ed
	Conductivity	1.70			microS/cm	120.1
	pH	5.80	8.50			150.1
	Turbidity	0.14	0.50		NTU	180.1 Rev. 2 1993
	Turbidity Filtered	NM	0.50		NTU	180.1 Rev. 2 1993

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**IBWA STANDARD OF QUALITY REPORT**

<b>Hardness</b>						
<b>CAS ID#</b>	<b>COMPOUNDS</b>	<b>RESULT</b>	<b>SOQ</b>	<b>MRL</b>	<b>Units</b>	<b>Method</b>
7440-70-2	Calcium	ND		0.10	mg/L	200.7 R4.4
	Hardness (CaCO3)	0.00			mg/L	200.7 R4.4
7439-95-4	Magnesium	ND		0.10	mg/L	200.7 R4.4
7440-23-5	Sodium	ND		0.10	mg/L	200.7 R4.4

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**IBWA STANDARD OF QUALITY REPORT**

<b>Uncategorized</b>						
<b>CAS ID#</b>	<b>COMPOUNDS</b>	<b>RESULT</b>	<b>SOQ</b>	<b>MRL</b>	<b>Units</b>	<b>Method</b>
	Bicarbonate	0.83			mg/L	SM2320B, 18Ed
	Carbonate	NM			mg/L	SM2320B, 18Ed
	Contract Lab	See Attached Report				
7440-09-7	Potassium	ND		0.10	mg/L	200.7 R4.4
7631-86-9	Silica	0.15		0.01	mg/L	200.7 R4.4
7440-24-6	Strontium (Sr)	ND		0.05	mg/L	200.7 R4.4
	Tannins	ND		2.00	mg/L	SM 5550

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Maria Mozden  
 Analytical Lab Manager

# IBWA STANDARD OF QUALITY REPORT



1903168

Control Number:

ANALYSIS REQUEST FORM - 2019  
Pace Analytical  
Attn: Sample Receiving  
8 East Tower Circle  
Ormond Beach, FL 32174

### IBWA ANNUAL TESTING - FOR CULLIGAN INTERNATIONAL

**SAMPLE SUBMITTED BY:**

Account Number: 4358  
Account Name: Fresno, California

**CULLIGAN BWP INFORMATION:**

Dealership Location/Name: Central Valley Culligan  
Address: 2479 South Orange Avenue  
City: Fresno State: CA Zip: 93725

Phone Number: 559-233-3055  
FAX Number: 559-233-3230  
E-MAIL: Specker@culliganfresno.com  
Person Taking Sample: Juan Aguayo  
Date Sample Taken: 4-14 March 19 Time Sample Taken: Daily

**SAMPLE INFORMATION (check the appropriate boxes):**

Water Supply: Private  Municipal   
Source: Surface  Well  Unknown

Condition: Treated  Untreated  Cloudy   
Colored

Water Type: Premium  Fluoridated  DI  Purified   
Demineralized  Spring  RO  Distilled   
Remineralized  Source

For Questions contact Maria Mozden at (847) 430-1219

**LAB USE ONLY:**

Sample received in acceptable condition: Yes \_\_\_\_\_ No \_\_\_\_\_  
Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
If not, reason: \_\_\_\_\_  
Disposition of sample: \_\_\_\_\_

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CO-IL100213; MI-9988

Maria Mozden  
Analytical Lab Manager

**IBWA STANDARD OF QUALITY REPORT**



**Sample Results**

Pace Analytical Services, Inc.  
8 East Tower Circle  
Ormond Beach, FL 32174  
(386) 672-5668

Client: Culligan International

Project ID: 1903168

Client ID: 1903168

Lab ID: 35454970001

Received 03/19/2019 08:05

Pace Project 35454970

Collected: 03/19/2019 08:05

Matrix: Drinking Water

Parameters	Report Limit	Results	Units	FDA Limit	Above/Below Limit	IBWA Limit	Above/Below Limit
<b>504.1 GCS EDB and DBCP</b>							
Analytical Method: EPA 504.1		Preparation Method: EPA 504.1					
1,2-Dibromo-3-chloropropane	0.0064	<0.0064	ug/L	0.2	Below	0.2	Below
1,2-Dibromoethane (EDB)	0.0075	<0.0075	ug/L	0.05	Below	0.05	Below
<b>508.1 GCS Pesticides</b>							
Analytical Method: EPA 508.1		Preparation Method: EPA 508.1					
Alachlor	0.060	<0.060	ug/L	2	Below	2	Below
gamma-BHC (Lindane)	0.0035	<0.0035	ug/L	0.2	Below	0.2	Below
Chlordane (Technical)	0.045	<0.045	ug/L	2	Below	2	Below
Endrin	0.0038	<0.0038	ug/L	2	Below	2	Below
Heptachlor	0.0093	<0.0093	ug/L	0.4	Below	0.4	Below
Heptachlor epoxide	0.0067	<0.0067	ug/L	0.2	Below	0.2	Below
Hexachlorobenzene	0.024	<0.024	ug/L	1	Below	1	Below
Hexachlorocyclopentadiene	0.016	<0.016	ug/L	50	Below	50	Below
Methoxychlor	0.056	<0.056	ug/L	40	Below	40	Below
PCB-1016 (Aroclor 1016)	0.077	<0.077	ug/L				
PCB-1221 (Aroclor 1221)	0.028	<0.028	ug/L				
PCB-1232 (Aroclor 1232)	0.028	<0.028	ug/L				
PCB-1242 (Aroclor 1242)	0.049	<0.049	ug/L				
PCB-1248 (Aroclor 1248)	0.059	<0.059	ug/L				
PCB-1254 (Aroclor 1254)	0.022	<0.022	ug/L				
PCB-1260 (Aroclor 1260)	0.063	<0.063	ug/L				
PCB, Total	0.077	<0.077	ug/L	0.5	Below	0.5	Below
Simazine	0.046	<0.046	ug/L	4	Below	4	Below
Toxaphene	0.58	<0.58	ug/L	3	Below	3	Below
<b>515.3 Chlorinated Herbicides</b>							
Analytical Method: EPA 515.3		Preparation Method: EPA 515.3					
2,4-D	0.081	<0.081	ug/L	70	Below	70	Below
Dalapon	0.89	<0.89	ug/L	200	Below	200	Below
Dinoseb	0.16	<0.16	ug/L	7	Below	7	Below
Pentachlorophenol	0.030	<0.030	ug/L	1	Below	1	Below
Picloram	0.094	<0.094	ug/L	500	Below	500	Below
2,4,5-TP (Silvex)	0.16	<0.16	ug/L	50	Below	10	Below
<b>525.2 Semi Volatile Compounds</b>							
Analytical Method: EPA 525.2		Preparation Method: EPA 525.2					
Atrazine	0.076	<0.076	ug/L	3	Below	3	Below
Benzo(a)pyrene	0.012	<0.012	ug/L	0.2	Below	0.2	Below
bis(2-Ethylhexyl)adipate	0.37	<0.37	ug/L	400	Below	400	Below
bis(2-Ethylhexyl)phthalate	0.48	<0.48	ug/L			6	Below
<b>547 HPLC Glyphosate</b>							
Analytical Method: EPA 547		Preparation Method: EPA 547					
Glyphosate	4.2	<4.2	ug/L	700	Below	700	Below
<b>549.2 HPLC Paraquat Diquat</b>							
Analytical Method: EPA 549.2		Preparation Method: EPA 549.2					
Diquat	0.30	<0.30	ug/L	20	Below	20	Below
<b>552.3 Haloacetic Acids</b>							
Analytical Method: EPA 552.3		Preparation Method: EPA 552.3					
Dibromoacetic Acid	0.43	<0.43	ug/L				
Dichloroacetic Acid	0.24	<0.24	ug/L				
Haloacetic Acids (Total)	0.90	<0.90	ug/L	60	Below	60	Below
Monobromoacetic Acid	0.29	<0.29	ug/L				
Monochloroacetic Acid	0.90	<0.90	ug/L				
Trichloroacetic Acid	0.26	<0.26	ug/L				

04/12/2019 16:35:52

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**Sample Results**

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Client: Culligan International

Client ID: 1903168

Project ID: 1903168

Lab ID: 35454970001

Received 03/19/2019 08:05

Pace Project 35454970

Collected: 03/19/2019 08:05

Matrix: Drinking Water

Parameters	Report Limit	Results	Units	FDA Limit	Above/Below Limit	IBWA Limit	Above/Below Limit
<b>524.2 MSV</b> Analytical Method: EPA 524.2							
Benzene	0.25	<0.25	ug/L	5	Below	1	Below
Bromodichloromethane	0.25	<0.25	ug/L				
Bromoform	0.32	<0.32	ug/L				
Carbon tetrachloride	0.25	<0.25	ug/L	5	Below	5	Below
Chlorobenzene	0.25	<0.25	ug/L	100	Below	50	Below
Chloroform	0.25	4.9	ug/L				
Dibromochloromethane	0.25	<0.25	ug/L				
1,2-Dichlorobenzene	0.25	<0.25	ug/L	600	Below	600	Below
1,4-Dichlorobenzene	0.25	<0.25	ug/L	75	Below	75	Below
1,2-Dichloroethane	0.25	<0.25	ug/L	5	Below	2	Below
1,1-Dichloroethane	0.25	<0.25	ug/L	7	Below	2	Below
cis-1,2-Dichloroethene	0.25	<0.25	ug/L	70	Below	70	Below
trans-1,2-Dichloroethene	0.25	<0.25	ug/L	100	Below	100	Below
1,2-Dichloropropane	0.25	<0.25	ug/L	5	Below	5	Below
Ethylbenzene	0.25	<0.25	ug/L	700	Below	700	Below
Methylene Chloride	0.44	<0.44	ug/L	5	Below	3	Below
Methyl-tert-butyl ether	0.25	<0.25	ug/L			70	Below
Naphthalene	0.25	<0.25	ug/L			300	Below
Styrene	0.25	<0.25	ug/L	100	Below	100	Below
1,1,2,2-Tetrachloroethane	0.25	<0.25	ug/L			1	Below
Tetrachloroethene	0.25	<0.25	ug/L	5	Below	1	Below
Toluene	0.25	<0.25	ug/L	1000	Below	1000	Below
Total Trihalomethanes (Calc.)	0.32	4.9	ug/L	80	Below	10	Below
1,2,4-Trichlorobenzene	0.41	<0.41	ug/L	70	Below	9	Below
1,1,1-Trichloroethane	0.25	<0.25	ug/L	200	Below	30	Below
1,1,2-Trichloroethane	0.25	<0.25	ug/L	5	Below	3	Below
Trichloroethene	0.25	<0.25	ug/L	5	Below	1	Below
Vinyl chloride	0.39	<0.39	ug/L	2	Below	2	Below
Xylene (Total)	0.25	<0.25	ug/L	10000	Below	1000	Below
<b>900.0 Gross Alpha/Beta</b> Analytical Method: EPA 900.0							
Gross Alpha	1.94	1.94U	pCi/L	15	Below	15	Below
Gross Beta	1.87	1.87U	pCi/L	50	Below	50	Below
<b>903.1 Radium 226</b> Analytical Method: EPA 903.1							
Radium-226	0.620	0.620U	pCi/L				
<b>904.0 Radium 228</b> Analytical Method: EPA 904.0							
Radium-228	0.861	0.661U	pCi/L				
<b>300.1 Oxihalide IC Anions 14d</b> Analytical Method: EPA 300.1							
Chlorite	1.3	3.6J	ug/L	1000	Below	1000	Below
<b>335.4 Cyanide, Total</b> Analytical Method: EPA 335.4 Preparation Method: EPA 335.4							
Cyanide	0.0050	<0.0050	mg/L	0.1	Below	0.1	Below
<b>353.2 Nitrogen, NO2/NO3</b> Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.025	0.040J	mg/L	10	Below	10	Below
Nitrogen, Nitrate	0.025	0.040J	mg/L				
Nitrogen, Nitrite	0.025	<0.025	mg/L				
<b>420.4 Phenolics, Total Low Lvl</b> Analytical Method: EPA 420.4							

04/12/2019 16:35:52

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MRL - Method Reporting Limit.

NELAP Certifications: IL-100213; PA-68-04623; NY-11756; TX-TX269-2007A

State Certifications: IL-IDPH-17598; CA-2958; MT-CERT0091; IA-369; VT-VT02199; WI-399016200;

CO-IL100213; MI-9988

Maria Mozden  
Analytical Lab Manager

# IBWA STANDARD OF QUALITY REPORT



## Sample Results

Pace Analytical Services, Inc.  
8 East Tower Circle  
Ormond Beach, FL 32174  
(386) 672-5668

Client: Culligan International

Client ID: 1903168

Project ID: 1903168

Lab ID: 35454970001

Received 03/19/2019 08:05

Pace Project: 35454970

Collected: 03/19/2019 08:05

Matrix: Drinking Water

Parameters	Report Limit	Results	Units	FDA Limit	Above/Below Limit	IBWA Limit	Above/Below Limit
420.4 Phenolics, Total Low Lvl Phenolics, Total Recoverable LL	0.00060	<0.00060	mg/L	0.001	Below	0.001	Below

04/12/2019 16:35:52

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CO-IL100213; MI-9988

Maria Mozdzen  
Analytical Lab Manager

# IBWA STANDARD OF QUALITY REPORT



## Definitions/Qualifiers

Pace Analytical Services, Inc.  
8 East Tower Circle  
Ormond Beach, FL 32174  
(386) 672-5668

Pace Project 35454970

### DEFINITIONS

- DF Dilution Factor
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting
- U Indicates the compound was analyzed for, but not detected.
- MDL Adjusted Method Detection Limit
- PQL Practical Quantitation Limit
- ND Not Detected at or above adjusted reporting limit.

### ANALYTE QUALIFIERS

- CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

04/12/2019 16:35:52

page 7 of 11

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CO-IL100213; MI-9988

Maria Mozden  
Analytical Lab Manager

**IBWA STANDARD OF QUALITY REPORT**



Pace Analytical Services, L.L.C.  
1700 Elm Street  
Minneapolis, MN 55414  
Tel: 612-607-1700  
Fax: 612-607-6444

**Drinking Water Analysis Results  
2,3,7,8-TCDD – USEPA Method 1613B**

Sample ID.....1903168  
Client.....PASI Florida  
Lab Sample ID.....35454970001  
Date Collected.....03/19/2019  
Date Received.....03/20/2019  
Date Extracted.....03/26/2019

	Sample 1903168	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND	--	--
EDL	1.7 pg/L	1.6 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	98%	100%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD				1.4%
IS Recovery	62%	63%	66%	60%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	78%	85%	93%	80%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	F190329A_17	F190329A_05	F190329A_03	F190329A_04
Analysis Date	03/29/2019	03/28/2019	03/28/2019	03/28/2019
Analysis Time	04:38	23:38	22:48	23:13
Analyst	SMT	SMT	SMT	SMT
Volume	1.008L	0.964L	0.973L	0.984L
Dilution	NA	NA	NA	NA
ICAL Date	01/16/2019	01/16/2019	01/16/2019	01/16/2019
CCAL Filename	F190329A_02	F190329A_02	F190329A_02	F190329A_02

- ! = Outside the Control Limits
- ND = Not Detected
- EDL = Estimated Detection Limit
- Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A
- RPD = Relative Percent Difference of Lab Spike Recoveries
- IS = Internal Standard [2,3,7,8-TCDD-<sup>13</sup>C<sub>12</sub>]
- CS = Cleanup Standard [2,3,7,8-TCDD-<sup>37</sup>Cl<sub>1</sub>]

Analyst:

Project No.....10467431

Report No.....10467431\_1613DW\_DFR

Page 8 of 8

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 CO-IL100213; MI-9988

Maria Mozden  
Analytical Lab Manager

# IBWA STANDARD OF QUALITY REPORT

## Definitions/Glossary

Client: Pace Analytical Services, LLC  
Project/Site: 35454970 / 1903168

TestAmerica Job ID: 680-166174-1

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.



### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EOL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

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CO-IL100213; MI-9988

Maria Mozdzen  
Analytical Lab Manager



**IBWA STANDARD OF QUALITY REPORT**

**Client Sample Results**

Client: Pace Analytical Services, LLC  
 Project/Site: 35454970 / 1903168

TestAmerica Job ID: 680-166174-1

Client Sample ID: 1903168  
 Date Collected: 03/19/19 08:05  
 Date Received: 03/20/19 09:35

Lab Sample ID: 680-166174-1  
 Matrix: Water

Method: 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	0.3	U	10	6.3	µg/L		03/26/19 06:22	03/26/19 16:03	1



TestAmerica Savannah

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 CO-IL100213; MI-9988

Maria Mozden  
 Analytical Lab Manager

# IBWA STANDARD OF QUALITY REPORT

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Certificate of Analysis Report for

PACE001 Pace Analytical Services Inc.

Client SDG: 35454970 GEL Work Order: 474072

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a Tracer compound
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Hope Taylor.

Reviewed by  \_\_\_\_\_

Page 2 of 14 SDG: 35454970

N.D. - Indicates that the compound was not detected above the Lab's Reporting Limit - MRL

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CO-IL100213; MI-9988

Maria Mozdzen  
Analytical Lab Manager

**IBWA STANDARD OF QUALITY REPORT**

**GEL LABORATORIES LLC**

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

**Certificate of Analysis**

Report Date: April 10, 2019

Company : Pace Analytical Services Inc.  
Address : Pace Analytical Services Inc.- Florida  
8 East Tower Circle  
Ormond Beach, Florida 32174  
Contact: Mr. Jeff Baylor  
Project: Sediment Project - Baylor  
Client Sample ID: 1903168  
Sample ID: 474072001  
Matrix: Drinking Water (Potable)  
Collect Date: 19-MAR-19 08:05  
Receive Date: 20-MAR-19  
Collector: Client

Project: PACE00215  
Client ID: PACE001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
<b>LCMSMS PFCs</b>												
<b>EPA 537 PFCs by LC-MS/MS "As Received"</b>												
N-ethylperfluoro-1-octanesulfonamideacetic acid (N-EtFOSA)	U	ND	1.25	3.78	ng/l	0.0189	1	JLS	03/24/19	1824	1860703	1
N-methylperfluoro-1-octanesulfonamideacetic acid (N-MeFOSA)	U	ND	1.25	3.78	ng/L	0.0189	1					
Perfluorobutanesulfonic acid (PFBS)	U	ND	0.624	1.68	ng/L	0.0189	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.624	1.89	ng/l	0.0189	1					
Perfluorododecanoic acid (PFDoA)	U	ND	0.624	1.89	ng/l	0.0189	1					
Perfluorooheptanoic acid (PFHpA)	U	ND	0.624	1.89	ng/l	0.0189	1					
Perfluorohexanesulfonic acid (PFHxS)	U	ND	0.624	1.72	ng/L	0.0189	1					
Perfluorohexanoic acid (PFHxA)	U	ND	0.624	1.89	ng/l	0.0189	1					
Perfluorononanoic acid (PFNA)	U	ND	0.624	1.89	ng/l	0.0189	1					
Perfluorooctanesulfonic acid (PFOS)	U	ND	0.624	1.89	ng/L	0.0189	1					
Perfluorooctanoic acid (PFOA)	U	ND	0.624	1.89	ng/L	0.0189	1					
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.624	1.89	ng/l	0.0189	1					
Perfluoroundecanoic acid (PFUdA)	U	ND	0.624	1.89	ng/L	0.0189	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537	PFCs Extraction in Drinking Water	NORI	03/24/19	1106	1860702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 537	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Perfluoro-n-[1,2-13C2] decaanoic acid	EPA 537 PFCs by LC-MS/MS "As Received"	4.40 ng/L	4.73	93	(70%-130%)
Perfluoro-n-[1,2-13C2] octanoic acid	EPA 537 PFCs by LC-MS/MS "As Received"	4.72 ng/l	4.73	100	(70%-130%)
Perfluoro-n-[2,3,4-13C3] butanoic acid	EPA 537 PFCs by LC-MS/MS "As Received"	5.05 ng/L	4.73	107	(70%-130%)
Sodium perfluoro-1-[1,2,3,4-13C4]oe	EPA 537 PFCs by LC-MS/MS "As Received"	4.55 ng/L	4.73	96	(70%-130%)

Notes:

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 CO-IL100213; MI-9988

Maria Mozdzen  
Analytical Lab Manager

# IBWA STANDARD OF QUALITY REPORT

## Definitions/Glossary

Client: Pace Analytical Services, LLC  
Project/Site: 35454970/1903168

Job ID: 690-166957-11

### Qualifiers

#### HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.



### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
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PQL	Practical Quantitation Limit
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RER	Relative Error Ratio (Radiochemistry)
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RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
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Eurofins TestAmerica, Savannah

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Maria Mozden  
Analytical Lab Manager

**IBWA STANDARD OF QUALITY REPORT**

**Client Sample Results**

Client: Pace Analytical Services, LLC  
Project/Site: 35454970/1903168

Job ID: 680-166957-11

Client Sample ID: 1903168  
Date Collected: 03/19/19 08:05  
Date Received: 04/03/19 08:51

Lab Sample ID: 680-166957-11  
Matrix: Drinking Water

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldicarb	0.50	U	2.5	0.50	ug/L			04/10/19 03:33	1
Aldicarb sulfone	0.25	U	2.5	0.25	ug/L			04/10/19 03:33	1
Aldicarb sulfoxide	0.25	U	2.5	0.25	ug/L			04/10/19 03:33	1
Carbofuran	0.25	U	2.5	0.25	ug/L			04/10/19 03:33	1
Oxamyl	0.37	U	2.5	0.37	ug/L			04/10/19 03:33	1

Eurofins TestAmerica, Savannah

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