

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

Culligan agua se compromete a proporcionar información completa y exacta sobre la calidad y la seguridad del agua que proporcionamos a nuestros clientes. El gran sabor del agua que proporcionamos es de la más alta calidad. Todos y cada gota de agua debe ser superior a un sinnúmero de leyes federales, estatales, la industria y las normas de la empresa. De hecho, nuestra agua gustos tan crujiente y refrescante, porque vamos a través de múltiples pasos de procesamiento que son vigilados de cerca en nuestra instalación de fabricación para garantizar cada contenedor cumple o sobrepasa nuestras normas de calidad. En concreto, federal, estatal y la industria del agua embotellada normas de calidad para establecer límites microbiológicos, físicos, químicos y radiológicos para ambas sustancias fuente de agua y productos de agua embotellada. Federal de frecuencias para los ensayos de estos parámetros se incluyen en la Administración de Drogas y Alimentos Buenas Prácticas de Manufactura para agua embotellada. La adhesión a estatales, federales y la industria del agua embotellada normas de calidad asegura que cada botella que entregar a su hogar u oficina, será segura para beber, y tienen un gran sabor constante. El resultado es que el agua embotellada tiene un crujiente y refrescante sabor cada vez que llenar su vaso.

Además de las estrictas normas reglamentarias, la Asociación de Agua Embotellada (IBWA) mantiene un estricto Código Modelo de calidad para sus miembros. Culligan es un miembro de IBWA y cumple o excede los requisitos de calidad de la IBWA Modelo de Código de Prácticas. Además, nos enorgullece el hecho de que nuestra agua embotellada planta de producción es inspeccionado cada año, sobre una base sin previo aviso, por independiente de terceros organizaciones. Estos anual de la planta sin previo aviso inspecciones anuales, junto con el ensayo de productos, asegúrese de que cumple con Culligan federales y estatales de agua embotellada y reglamentos IBWA el Código Modelo. Para obtener más información acerca IBWA y la IBWA Modelo de Código de Prácticas, por favor, visite su sitio web en <http://www.bottledwater.org> IBWA o llame al 1-800-AGUA-11.

Con el fin de entender este informe de la confianza de consumidor, las definiciones siguientes serán de asistencia

Declaración de calidad (SOQ, Statement of Quality) - el estándar de la calidad para el agua embotella es el nivel más alto de un contaminante que se permita en un envase de agua embotella según lo establecido por el FDA y el CPH. Los estándares no pueden ser ningún menos protector de la salud pública que los estándares para el agua potable pública según lo establecido por la Organización de Protección Ambiental de los Estados Unidos (EPA, por sus siglas en inglés).

Objetivo de Salud Pública (PHG, Public Health Goal) - El nivel de un contaminante en el agua potable por debajo del cual no hay ningún riesgo conocido o esperado a la salud. La

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Organización de Protección Ambiental del Estado de California (CA EPA) fija los PHG.

Nivel Máximo de un Contaminante (MCL, Maximum Contaminant Level)- El nivel más alto de un contaminante que se permite en el agua potable, establecidos por el EPA o el CDH. Los MCL Primarios se fijan lo más cercanamente posible a los PHG dentro de los límites económicos o tecnológicos.

Estándar primario para el agua potable (Primary Drinking Water Standard) - Los Niveles Máximos de Contaminantes (MCL) establecidos por la EPA o el CDHP que afectan a la salud junto con los requisitos de control e informes, y los requisitos del tratamiento del agua.

¿De dónde viene mi agua? El agua de Culligan agua proviene de agua de la ciudad de Fresno, California reunión de todos los estatales y federales el cumplimiento. “ Las fuentes del agua embotellada incluyen ríos, lagos, arroyos, estanques, embalses, manantiales y pozos de agua. Al viajar el agua sobre la superficie de la tierra o a través del suelo puede recoger sustancias de origen natural. El agua también puede recoger sustancias que resultan de la presencia de animales o de la actividad humana. Los contaminantes que pueden estar presentes en las fuentes de agua incluyen los siguientes:

1. Contaminantes inorgánicos, tales como sales y metales, que pueden ser de origen natural o resultar de escorrentías de aguas pluviales, de descargas de aguas residuales industriales o domésticas, de la producción petrolera y de gas, o de la agricultura.
2. Pesticidas y herbicidas, que pueden resultar de una amplia variedad de fuentes tales como la agricultura, las escorrentías urbanas y el uso residencial.
3. Contaminantes orgánicos, que son productos secundarios de procesos industriales y de la producción petrolera, y que también pueden originarse en estaciones de gasolina, escorrentías de aguas pluviales urbanas y de sistemas sépticos.
4. Contaminantes microbianos, que pueden originarse en plantas de tratamiento de agua, sistemas sépticos, actividades agrícolas y ganaderas y de la vida silvestre.
5. Contaminantes radiactivos, que pueden ser de origen natural o resultar de la producción petrolera o de gas y de las

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actividades de minería.

¿Cómo recibe el agua tratamiento?

El agua de Culligan es tratada por

Filtración – el uso de filtros para quitar material de partículas del agua de la fuente

Filtración de micrón – el uso de un filtro de micrón para quitar las partículas microbiológicas

Ozonación – un proceso de desinfección

Desinfección UV – uso de la luz ultravioleta para desinfectar la fuente de agua

Osmosis reversa – uso de una bomba de alta presión y de membranas especiales, llamadas membranas semipermeables, de revertir el fenómeno natural de ósmosis

Desionización – uso de las camas de resina para quitar elementos indeseables

Desmineralización – uso del catión y del anión de las camas de la resina para quitar los minerales

Carbón de leña activado granulado – usado para quitar solventes clorinados y compuestos orgánicos volátiles, etc.

procesos del tratamiento) para proveer les este producto de alta calidad que pueda disfrutar.

¿Mi agua cumple con los normas de la Administración de Alimentos y Drogas (FDA) y del Estado de California? - Sí. El agua de Central Valley Culligan complace con todas las normas para el agua potable de la FDA y CDPH.

¿Por qué hay contaminantes en mi agua?-

Con el agua potable, incluyendo el agua embotellada, puede esperarse encontrar por lo menos cantidades pequeñas de contaminantes. La presencia de contaminantes no necesariamente indica que el agua posea un riesgo a la salud. Mas información sobre contaminantes y efectos potenciales de salud puede obtenerse llamando a la línea de asistencia de la Administración de Alimentos y Drogas.

1-888-723-3366

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“Algunas personas pueden ser más vulnerables a los contaminantes en el agua potable que la población en general. Personas con problemas en el sistema inmunológico, tales como aquellas con cáncer que reciben tratamientos de quimioterapia, o aquellas que han recibido algún trasplante de órgano, gente con VIH / SIDA o con algún otro tipo de desorden inmunológico, particularmente ancianos e infantes, pueden estar en riesgo de infecciones. Estas personas deben preguntar a sus médicos qué tipo de agua deben tomar. Las directrices de la EPA y del Centro para el Control de Enfermedades, CDC, sobre los medios apropiados para reducir el riesgo de infecciones por criptosporidio y otros contaminantes a base de microbios están disponibles en la línea de asistencia para la seguridad del agua potable. (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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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 Mozdzen
Analytical Lab Manager

IBWA STANDARD OF QUALITY REPORT

Secondary Inorganic Parameters

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
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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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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Water Properties						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	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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Hardness						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
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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Uncategorized						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	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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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: SBecker@culliganfresno.com
Person Taking Sample: Juan Aguayo
Date Sample Taken: 4/14 March 14 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
Deminerlized Spring RO Distilled
Remineralized Source

For Questions contact Maria Mozdzen 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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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
504.1 GCS EDB and DBCP		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
508.1 GCS Pesticides		Analytical Method: EPA 508.1		Preparation Method: EPA 508.1			
Atachlor	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	0.0087	<0.0087	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
515.3 Chlorinated Herbicides		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
525.2 Semi Volatile Compounds		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
547 HPLC Glyphosate		Analytical Method: EPA 547		Preparation Method: EPA 547			
Glyphosate	4.2	<4.2	ug/L	700	Below	700	Below
549.2 HPLC Paraquat Diquat		Analytical Method: EPA 549.2		Preparation Method: EPA 549.2			
Diquat	0.30	<0.30	ug/L	20	Below	20	Below
552.3 Haloacetic Acids		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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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
524.2 MSV 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
900.0 Gross Alpha/Beta 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
903.1 Radium 226 Analytical Method: EPA 903.1							
Radium-226	0.620	0.620U	pCi/L				
904.0 Radium 228 Analytical Method: EPA 904.0							
Radium-228	0.661	0.661U	pCi/L				
300.1 Oxihalide IC Anions 14d Analytical Method: EPA 300.1							
Chlorite	1.3	3.6J	ug/L	1000	Below	1000	Below
335.4 Cyanide, Total Analytical Method: EPA 335.4 Preparation Method: EPA 335.4							
Cyanide	0.0050	<0.0050	mg/L	0.1	Below	0.1	Below
353.2 Nitrogen, NO2/NO3 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				
420.4 Phenolics, Total Low Lvl Analytical Method: EPA 420.4							

04/12/2019 16:35:52

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CO-IL100213; MI-9988

Maria Mozdzen
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

Analytical Method: EPA 420.4

04/12/2019 16:35:52

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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

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CO-IL100213; MI-9988

Maria Mozdzen
Analytical Lab Manager

IBWA STANDARD OF QUALITY REPORT



Pace Analytical Services, I.L.C.
1700 Elm Street
Minneapolis, MN 55414

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

Tel: 612-607-1700
Fax: 612-607-6444

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-¹³C₁₂]
- CS = Cleanup Standard [2,3,7,8-TCDD-¹³Cl₁]

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.
a	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 EDL 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	ug/L		03/26/19 06:22	03/26/19 18:03	1	



TestAmerica Savannah

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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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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 Project: PACE00215
Sample ID: 474072001 Client ID: PACE001
Matrix: Drinking Water (Potable)
Collect Date: 19-MAR-19 08:05
Receive Date: 20-MAR-19
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537 PFCs by LC-MS/MS "As Received"												
N-ethylperfluoro-1-octanesulfonamideacetic acid (N-EFOSA)	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					
Perfluorooctanoic acid (PFPOA)	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					
Perfluorotetradecanoic acid (PFTrDA)	U	ND	0.624	1.89	ng/l	0.0189	1					
Perfluorodecanoic 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	NOR1	03/24/19	1106	1860702

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Perfluoro-n-[1,2-13C2] decanoic 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]o	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 Mozden
Analytical Lab Manager

IBWA STANDARD OF QUALITY REPORT

Definitions/Glossary

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

Job ID: 680-166957-11

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.
D	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
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NC	Not Calculated
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PQL	Practical Quantitation Limit
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Eurofins TestAmerica, Savannah

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CO-IL100213; MI-9988

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

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Analytical Lab Manager