



9399 West Higgins Road Suite 1100
Rosemont, IL 60018

Phone: 847 430 1219
Fax: 847 430 2219

IBWA STANDARD OF QUALITY REPORT

Customer Name: Culligan Santa Maria
Customer Address: 700 W Cook St
Santa Maria, CA 93458

Page 1 of 13

Sample Date: 2/14/2023
Sample Description: Purified
Date Reviewed: 3/23/2023

Sample I.D. 2301719
Report Date 3/23/2023

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	300.1
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	0.01	0.10		mg/L	330.5
	Chlorine, Total	0.02	0.10		mg/L	330.5
7440-47-3	Chromium	ND	50.00	1.00	ug/L	200.8 R5.4
16984-48-8	Fluoride	ND	3.00	0.20	mg/L	300.0 R2.1
	Free Chlorine	0.01			mg/L	330.5
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; VA-00466

Maria Mozdzen
Analytical Lab Manager

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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	3.84	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	0.85	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	2.50			microS/cm	120.1
	pH	5.80	8.50			150.1
	Turbidity	0.07	0.50		NTU	180.1 Rev. 2 1993
	Turbidity Filtered	NA	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)	ND		0.70	mg/L	200.7 R4.4
7439-95-4	Magnesium	ND		0.10	mg/L	200.7 R4.4
7440-23-5	Sodium	0.21		0.10	mg/L	200.7 R4.4

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Uncategorized						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	Bicarbonate	0.00			mg/L	SM2320B, 18Ed
	Carbonate	0.00			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	2.34		0.05	mg/L	200.7 R4.4
7440-24-6	Strontium (Sr)	ND		0.05	mg/L	200.7 R4.4
	Total Alkalinity	0.00			mg/L	SM2320B, 18Ed

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2301719

Attn: Sample Receiving
8 East Tower Circle
Ormond Beach, FL 32174

IBWA ANNUAL TESTING - FOR CULLIGAN INTERNATIONAL

SAMPLE SUBMITTED BY: Culligan Santa Maria
Account Number: 04258
Account Name: Culligan Santa Maria

CULLIGAN BWP INFORMATION:

Dealership Location/Name: Culligan Santa Maria
Address: 700 W cook st
City: Santa Maria State: CA Zip: 93458

Phone Number: 805-922-3585

FAX Number: 805-922-9912

E-MAIL: justin@eculligan.com

Person Taking Sample: Leo Delgado

Date Sample Taken: 2/14/23 Time Sample Taken: 9:15

SAMPLE INFORMATION (check the appropriate boxes):

Water Supply: Private Municipal
Source: Surface Well Unknown

Condition: Treated Untreated

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

Optional Testing: USP23 Optional Testing for NY and PA only (YES)

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

LAB USE ONLY:

Sample received in acceptable condition: Yes No
Received by: ESQ Date: 2/16/23 Time: 1200
If not, reason: _____
Disposition of sample: _____

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Sample Results

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

Client: Culligan International

Client ID: 2301719

Project ID: 2301719

Lab ID: 35781213001

Received 02/22/2023 09:42

Pace Project 35781213

Collected: 02/22/2023 09:42

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	0.0067	<0.0067	ug/L	0.2	Below		Below
1,2-Dibromoethane (EDB)	0.0078	<0.0078	ug/L	0.05	Below	0.05	Below
505 GCS PCB-TOX-TCH							
	Analytical Method: EPA 505			Preparation Method: EPA 505			
Chlordane (Technical)	0.035	<0.035	ug/L	2	Below	2	Below
PCB-1016 (Aroclor 1016)	0.043	<0.043	ug/L				
PCB-1221 (Aroclor 1221)	0.032	<0.032	ug/L				
PCB-1232 (Aroclor 1232)	0.044	<0.044	ug/L				
PCB-1242 (Aroclor 1242)	0.031	<0.031	ug/L				
PCB-1248 (Aroclor 1248)	0.012	<0.012	ug/L				
PCB-1254 (Aroclor 1254)	0.036	<0.036	ug/L				
PCB-1260 (Aroclor 1260)	0.029	<0.029	ug/L				
PCB, Total	0.044	<0.044	ug/L	0.5	Below	0.5	Below
Toxaphene	0.68	<0.68	ug/L	3	Below	3	Below
515.3 Chlorinated Herbicides							
	Analytical Method: EPA 515.3			Preparation Method: EPA 515.3			
2,4-D	0.096	<0.096	ug/L	70	Below	70	Below
Dalapon	0.48	<0.48	ug/L	200	Below	200	Below
Dinoseb	0.16	<0.16	ug/L	7	Below	7	Below
Pentachlorophenol	0.014	<0.014	ug/L	1	Below	1	Below
Picloram	0.040	<0.040	ug/L	500	Below	500	Below
2,4,5-TP (Silvex)	0.053	<0.053	ug/L	50	Below	10	Below
525.3 Pesticides Semivolatiles							
	Analytical Method: EPA 525.3			Preparation Method: EPA 525.3			
Alachlor	0.028	<0.028	ug/L	2	Below	2	Below
Atrazine	0.014	<0.014	ug/L	3	Below	3	Below
Benzo(a)pyrene	0.019	<0.019	ug/L	0.2	Below	0.2	Below
gamma-BHC (Lindane)	0.0026	<0.0026	ug/L	0.2	Below	0.2	Below
Endrin	0.0023	<0.0023	ug/L	2	Below	2	Below
bis(2-Ethylhexyl)adipate	0.35	<0.35	ug/L	400	Below	400	Below
bis(2-Ethylhexyl)phthalate	0.45	<0.45	ug/L			6	Below
Heptachlor	0.013	<0.013	ug/L	0.4	Below	0.4	Below
Heptachlor epoxide	0.0029	<0.0029	ug/L	0.2	Below	0.2	Below
Hexachlorobenzene	0.014	<0.014	ug/L	1	Below	1	Below
Hexachlorocyclopentadiene	0.024	<0.024	ug/L	50	Below	50	Below
Methoxychlor	0.023	<0.023	ug/L	40	Below	40	Below
Simazine	0.039	<0.039	ug/L	4	Below	4	Below
531.2 HPLC Carbamates							
	Analytical Method: EPA 531.2						
Aldicarb	0.36	<0.36	ug/L			3	Below
Aldicarb sulfone	0.58	<0.58	ug/L			3	Below
Aldicarb sulfoxide	0.47	<0.47	ug/L			4	Below
Carbofuran	0.59	<0.59	ug/L				
Oxamyl	0.46	<0.46	ug/L	200	Below	200	Below
547 HPLC Glyphosate							
	Analytical 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	0.16	<0.16	ug/L	20	Below	20	Below
552.3 Haloacetic Acids							
	Analytical Method: EPA 552.3			Preparation Method: EPA 552.3			

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Pace Project 35781213

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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				
548.1 GCS Endothall		Analytical Method: EPA 548.1		Preparation Method: EPA 548.1			
Endothall	3.3	<3.3	ug/L	100	Below	100	Below
8270 MSSV Semivolatile		Analytical Method: EPA 8270		Preparation Method: EPA 3510			
Phenol	0.60	<0.60	ug/L				
524.2 MSV		Analytical Method: EPA 524.2		Preparation Method: EPA 524.2			
Benzene	0.40	<0.40	ug/L	5	Below	1	Below
Bromodichloromethane	0.37	<0.37	ug/L				
Bromoform	0.35	<0.35	ug/L				
Carbon tetrachloride	0.28	<0.28	ug/L	5	Below	5	Below
Chlorobenzene	0.26	<0.26	ug/L	100	Below	50	Below
Chloroform	0.44	<0.44	ug/L				
Dibromochloromethane	0.47	<0.47	ug/L				
1,2-Dichlorobenzene	0.26	<0.26	ug/L	600	Below	600	Below
1,4-Dichlorobenzene	0.30	<0.30	ug/L	75	Below	75	Below
1,2-Dichloroethane	0.30	<0.30	ug/L	5	Below	2	Below
1,1-Dichloroethane	0.29	<0.29	ug/L	7	Below	2	Below
cis-1,2-Dichloroethene	0.33	<0.33	ug/L	70	Below	70	Below
trans-1,2-Dichloroethene	0.27	<0.27	ug/L	100	Below	100	Below
1,2-Dichloropropane	0.44	<0.44	ug/L	5	Below	5	Below
Ethylbenzene	0.23	<0.23	ug/L	700	Below	700	Below
Methylene Chloride	0.44	<0.44	ug/L	5	Below	3	Below
Methyl-tert-butyl ether	0.36	<0.36	ug/L			70	Below
Naphthalene	0.48	<0.48	ug/L			300	Below
Styrene	0.20	<0.20	ug/L	100	Below	100	Below
1,1,2,2-Tetrachloroethane	0.27	<0.27	ug/L			1	Below
Tetrachloroethane	0.26	<0.26	ug/L	5	Below	1	Below
Toluene	0.28	<0.28	ug/L	1000	Below	1000	Below
Total Trihalomethanes (Calc.)	0.47	<0.47	ug/L	80	Below	10	Below
1,2,4-Trichlorobenzene	0.35	<0.35	ug/L	70	Below	9	Below
1,1,1-Trichloroethane	0.27	<0.27	ug/L	200	Below	30	Below
1,1,2-Trichloroethane	0.28	<0.28	ug/L	5	Below	3	Below
Trichloroethene	0.26	<0.26	ug/L	5	Below	1	Below
Vinyl chloride	0.12	<0.12	ug/L	2	Below	2	Below
Xylene (Total)	0.11	<0.11	ug/L	10000	Below	1000	Below
537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1		Preparation Method: EPA 537.1			
11CI-PF3OUdS	0.0015	<0.0015	ug/L				
9CI-PF3ONS	0.0011	<0.0011	ug/L				
ADONA	0.00068	<0.00068	ug/L				
HFPO-DA	0.0015	<0.0015	ug/L				
NEtFOSAA	0.00087	<0.00087	ug/L			5	Below
NMeFOSAA	0.0015	<0.0015	ug/L			5	Below

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537.1 PFAS Compounds, Water		Analytical Method: EPA 537.1		Preparation Method: EPA 537.1			
Perfluorobutanesulfonic acid	0.0062	<0.0062	ug/L			5	Below
Perfluorodecanoic acid	0.0090	<0.0090	ug/L			5	Below
Perfluorohexanoic acid	0.0012	<0.0012	ug/L			5	Below
Perfluorododecanoic acid	0.0014	<0.0014	ug/L			5	Below
Perfluoroheptanoic acid	0.0094	<0.0094	ug/L			5	Below
Perfluorohexanesulfonic acid	0.0069	<0.0069	ug/L			5	Below
Perfluorononanoic acid	0.0018	<0.0018	ug/L			5	Below
Perfluorooctanesulfonic acid	0.0011	<0.0011	ug/L			5	Below
Perfluorooctanoic acid	0.0082	<0.0082	ug/L			5	Below
Perfluorotetradecanoic acid	0.0018	<0.0018	ug/L			5	Below
Perfluorotridecanoic acid	0.0016	<0.0016	ug/L			5	Below
Perfluoroundecanoic acid	0.0018	<0.0018	ug/L			5	Below
Total PFAs	0.0018	<0.0018	ug/L			10	Below
900.0 Gross Alpha/Beta		Analytical Method: EPA 900.0					
Gross Alpha	1.15	1.15U	pCi/L	15	Below	15	Below
Gross Beta	2.05	2.05U	pCi/L	50	Below	50	Below
903.1 Radium 226		Analytical Method: EPA 903.1					
Radium-226	0.807	0.807U	pCi/L				
904.0 Radium 228		Analytical Method: EPA 904.0					
Radium-228	0.837	0.837U	pCi/L				
300.1 Oxihalide IC Anions 14d		Analytical Method: EPA 300.1					
Chlorite	0.56	<0.56	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	0.015	<0.015	mg/L	10	Below	10	Below
Nitrogen, Nitrate	0.025	<0.025	mg/L				
Nitrogen, Nitrite	0.025	<0.025	mg/L				

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Definitions/Qualifiers

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

Pace Project 35781213

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

- 1p The recovery of the analyte in the CRDL standard (also known as the reporting limit verification) exceeded the acceptance criteria. Analyte results below the reporting limits are not affected by high bias.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

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State Certifications: IL-IDPH-17598; CA-2958; MT-CERT0091; IA-369; VT-VT02199; WI-399016200;
CO-IL100213; MI-9988; VA-00466

Maria Mozden
Analytical Lab Manager

IBWA STANDARD OF QUALITY REPORT



Pace Analytical Services, LLC.
 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.....2301719 Date Collected.....02/22/2023
 Client.....PASI Florida Date Received.....02/23/2023
 Lab Sample ID.....35781213001 Date Extracted.....02/27/2023

	Sample 2301719	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND	--	--
EDL	3.1 pg/L	3.1 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	102%	107%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD				5.0%
IS Recovery	90%	82%	87%	75%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	82%	86%	92%	85%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	E230301A_06	E230301A_05	E230301A_03	E230301A_04
Analysis Date	03/01/2023	03/01/2023	03/01/2023	03/01/2023
Analysis Time	07:00	06:31	05:34	06:02
Analyst	SM	SM	SM	SM
Volume	0.995L	1.005L	1.018L	1.026L
Dilution	NA	NA	NA	NA
ICAL Date	11/30/2021	11/30/2021	11/30/2021	11/30/2021
CCAL Filename	E230301A_02	E230301A_02	E230301A_02	E230301A_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-³⁷Cl₄]

Analyst:

Project No.....10643825

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Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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