Radionuclides									
Contaminant	Unit of Measure	MCL Violation Y or N	Highest Level Detected	Range of All Samples	MCL	MCLG	Sample Year	Likely Sources of Contamination	
Gross alpha, excluding radon and uranium	piC/L	N	5.0	2.4 - 5.0	15	0	2021	Erosion of natural deposits	
Inorganic Chemicals									
Contaminant	Unit of Measure	MCL Violation Y or N	Highest Level Detected	Range of All Samples (Low - High)	MCL	MCLG	Sample Year	Likely Sources of Contamination	
Arsenic	ppb	N	10.8**	1.20 - 10.8	10**	0	2021	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.	
Barium	ppm	N	0.11	0.005 - 0.11	2	2	2021	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.	
Chromium, Total	ppb	Ν	24	ND - 24	100	100	2021	Discharge from steel and pulp mills; Erosion of natural deposits.	
Fluoride	ppm	N	1.11	0.12 - 1.11	4	4	2021	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.	
Nitrate	ppm	Ν	6.46	ND - 6.46	10	10	2021	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.	
Sodium	ppm	Ν	190	53 - 190	N/A	N/A	2021	Erosion of natural deposits.	
Synthetic Organic Chemicals									
Contaminant	Unit of Measure	MCL Violation Y or N	Highest Level Detected	Range of All Samples (Low - High)	MCL	MCLG	Sample Year	Likely Sources of Contamination	
Dibromochloropropane	ppt	N	26	ND - 26	200	0	2021	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards.	
Volatile Organic Chemicals									
Contaminant	Unit of Measure	MCL Violation Y or N	Highest Level Detected	Range of All Samples (Low - High)	MCL	MCLG	Sample Year	Likely Sources of Contamination	
Dichloromethane	ppb	Ν	0.5	ND - 0.5	5	0	2021	Discharge from pharmaceutical and chemical factories.	
Tetrachloroethylene	ppb	N	0.56	ND - 0.56	5	0	2021	Discharge from factories and dry cleaners	
Trichloroethylene	ppb	N	0.54	ND - 0.54	5	0	2021	Discharge from metal degreasing sites and other factories.	

2021 Regulated Contaminants

Surface Water Monitoring - CRYPTOSPORIDIUM

The City of Mesa performed surface water monitoring for Cryptosporidium in 2020. Eight (8) samples were collected. There was no indication of the presence of Cryptosporidium in our source water during the 2020 calendar year.

Violation Summary (for MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement)

*The City of Phoenix was issued a violation for Treatment Technique (TT) for one turbidity sample in January 2021. Compliance was restored upon submission of the report. The City of Mesa was issued a monitoring violation for missed reporting for the DBP Stage 1 Monitoring Plan for Total Organic Carbon for January 2021.

**This Arsenic result was from a single annual sample in the fourth quarter of 2021, which triggered quarterly monitoring. Compliance is then based on a location-specific running four quarter average.

Other Parameters of Interest								
Contaminant	Unit of Measure	Range of All Samples (Low - High)	Non-enforceable Secondary Standard	Sample Year				
рН	S.U. (standard units)	6.87 - 8.4	6.5 - 8.5	2021				
Calcium	ppm	49 - 79	N/A	2021	SO WIDE?			
Magnesium Hardness Hardness	ppm ppm	11 - 40	N/A	2020	Drinking water in Mesa comes from surface water and groundwater sources.			
		140 - 410	N/A	2020	Depending on utility operations, the water you consume may have a higher			
	gpg	8.2 - 25	N/A	2020	percentage of groundwater. Groundwater sources also vary in the			
Sodium	ppm	53 - 190	N/A	2021	concentration of mineral deposits and hardness. A range for the sources			
Potassium	ppm	5 - 5.39	N/A	2020	sampled in 2020 and 2021 is provided.			
Nickel	ppb	ND - 3.8	N/A	2021				
Iron	ppb	ND - 50	300	2020	1			

AQUATIC CONSULTING & TESTING, INC.

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Lic. No. AZ0003

LABORATORY REPORT

Client: Celtic Plastic 329 S Rockford Dr Tempe, AZ 85281 Date Submitted: 10/28/22 Date Reported: 11/04/22

Attn: Corey McIlveen

Client ID: Mesa Home Sample 2

Project: Sentry Filtration Wellness Syste

Sample Type: Drinking Water

RESULTS

ACT Lab No.: CE08418	Sample Time: 10/28/22 09:00						
	Analysi	is Date					
Parameter	<u>Start</u>	<u>End</u>	Method No.	Result	Unit		
Chromium, Hexavalent	10/28/22	10/28/22	SM3500Cr D	<0.01	mg/L		
Arsenic	11/01/22	11/01/22	200.8	<0.0050	mg/L		

Reviewed by:

Frederick A. Amalfi, Ph.D. Laboratory Director

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LABORATORY REPORT

Client: Celtic Plastic 329 S Rockford Dr Tempe, AZ 85281 Date Submitted: 10/28/22 Date Reported: 11/04/22

Attn: Corey McIlveen

Project: Sentry Filtration Wellness Syste

RESULTS

Client ID: Mesa Home Sample 1 ACT Lab No.: CE08417	Sample Type: Drinking Water Sample Time: 10/28/22 09:00						
Parameter	Analys <u>Start</u>	is Date <u>End</u>	Method No.	Result	Unit		
Fluoride	10/28/22	10/28/22	SM4500F C	<0.5	mg/L		
Total Hardness	11/01/22	11/01/22	SM2340C	298.	mg/L as CaCO3		
Calcium Hardness	11/03/22	11/03/22	200.7	100.	mg/L as CaCO3		
рН	10/28/22	10/28/22	SM4500H+ B	8.5@23C	SU		

Calcium = 40 ppm, Magnesium = 48 ppm.

Reviewed by:

Frederick A. Amalfi, Ph.D. Laboratory Director