



# TEST REPORT

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**Report Number:** 2295-19134-002

**Report Issued:** May 20, 2019

**Project No.:** 32046

**Report To:** ASSE International  
18927 Hickory Creek Dr  
Mokena, IL 60448

**Tested For:** Bella Vie Water, LLC  
23251 Vista Grande Dr. #A  
Laguna Hills, CA 92653

**Source of Samples:** The units were shipped to IAPMO R&T Lab from Bella Vie and were received in good condition on 3/14/2019

**Location of Testing:** IAPMO R&T Lab, 5001 East Philadelphia Street, Ontario CA 91761

**Dates of Evaluation:** April 16<sup>th</sup>-May 14<sup>th</sup>, 2019

**Product Description:** Batch systems, model EWPHAIAIF

**Primary Standard:** NSF/ANSI 42-2018

**Scope of Evaluation:** Qualification of the sample for Chlorine reduction as a batch system

**Conclusion:** The samples described in the “Product Description” were evaluated according to NSF/ANSI 42 2018 7.3.3 Chlorine reduction. Please refer to following pages for details.

**Report Status:** COMPLIED

Tested By,

Reviewed By,

Kaitlin Rommelfanger, Lab Analyst

Sal Aridi - Director

*This report replaces report 2295-19134. It was reissued to correct the tested for address.*

**Requirements for Compliance:** The system shall reduce an influent challenge concentration of 2.0 mg/L of free available chlorine by a minimum of 50%

**Table 1-** Specifications of testing

<b>Number of Units</b>	2
<b>Cycle</b>	Maximum of one gallon per hour and 10 gallons per day
<b>Rated Capacity</b>	200 gallons
<b>Conditioning</b>	The upper tank was filled and the first batch of water was discarded
<b>Sampling</b>	Sampled at 10 unit volume and at 10, 20, 30, 40, 50, 60, 70, 80, 90, and 100 percent of capacity
<b>Deviations from standard</b>	none

Influent water was prepared per the specifications in NSF/ANSI 42 Section 7.3.3.6.1 Those specifications are shown below.

pH	7.5 +/- 0.05
Temperature	20 +/- 3 degrees C
Test Average Free available Chlorine (FAC)	2.0 +/- 0.2 mg/L
Allowable Single Influent point Free available Chlorine (FAC)	2.0 +/- 0.4 mg/L
Total dissolved solids	200-500 mg/L
Total organic carbon TOC	≥ 1.0 mg/L
Turbidity	< 1 NTU

**Findings:**

**Table 3-** Influent and effluent chlorine levels

Samples Required by Standard (gallons)	Influent Chlorine (mg/L)	Effluent Chlorine (mg/L)	Effluent Chlorine (mg/L)
10 UV	1.9	<RL	<RL
20	1.87	<RL	0.05
40	1.92	<RL	<RL
60	1.97	0.05	0.18
80	2.13	<RL	<RL
100	2.18	<RL	<RL
120	1.92	0.05	<RL
140	1.92	<RL	<RL
160	1.89	<RL	0.09
180	1.9	0.1	<RL
200	1.9	<RL	<RL

Note: <RL (less than Reporting Limit) Reporting Limit for chlorine is 0.05mg/L

**Table 4-** Average influent, effluent and percent reduction

	Results	Standard Requirements
<b>Ave Influent (Inf) mg/L</b>	1.95	2mg/L +/- 0.2
<b>Ave Effluent (Eff) E1 mg/L</b>	0.05	≤50% of influent
<b>Ave Effluent (Eff) E2 mg/L</b>	0.07	≤50% of influent
<b>Maximum Effluent mg/L</b>	0.18	≤50% of influent
<b>Ave % Reduction E1</b>	97.2	
<b>Ave % Reduction E2</b>	96.6	
<b>Ave % Reduction Both Samples</b>	96.9	
<b>Minimum % Reduction</b>	90.9	

**Pictures:**

**Figure 1- Units tested**

