



1326 North Trinity
San Antonio, TX 78207

Test Report

August 8, 2002

Performance Test
RO vs. EWP under-the counter
Flouride Removal and overall Purification

Flouride has been recently added to San Antonio City water by SAWS (San Antonio Water System).

A test was run to compare under the counter RO versus the EWP for overall purification, overall Flouride removal and water waste.

For the EWP the test was run using a 50 gram cell. The test was run at 250 ml/min (equal to a speed of 6 ml/min/g-c). This is the exact cell that is in a mini EWP.

For the RO, a DOW Filmtec membrane was used in a standard under the counter membrane housing that can be purchased at Home Depot or any water equipment wholesale supply.

The test results on Arsenic and Nitrates are as follows

	RO		EWP	
Permeate (Purified water) Flow	110	ml/min	250	ml/min
Reject (waste water) flow	920	ml/min	83	ml/min
% waste of Total flow	89%		25%	
TDS of feed water	300	mg/l	300	mg/l
TDS of purified water (Permeate)	70	Mg/l	19	Mg/l
% Purification	77%		94%	
Flouride in feed water	1.36	Mg/l	1.36	Mg/l
Flouride in Purified water (Permeate)	.29	Mg/l	0	Mg/l
% Flouride removed	79%		100%	

The flouride was measured using a Hach spectrophotomer using certified EPA testing procedures and the TDS was measured using a Myronel handheld conductivity meter.

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The EWP outperformed RO on Removal of Flouride, purified water quality and the amount of waste water.

Robert Atlas

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