



APPLIED RESEARCH LABORATORIES OF FLORIDA, INC.

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CHEMISTS • ENGINEERS • INSPECTORS



May 09, 1984

Client: Ceramica Stefani, S.A. C/O Goodtrade Corp. **Laboratory No.:** 27070
5502 N.W. 72nd Avenue
Miami, Florida 33166

Attn: Mike Waisbrot

Reference:

Subject: The "Stefani" Water Purification Unit

Method: Standard Chemical/Bacteriological/Atomic Absorption

Report of Analysis

INTRODUCTION

The Stefani Water Purification Unit, manufactured by the client, was tested for contaminate removal efficiency and silver leaching. Levels of organics, bacteria, and total chlorine in water were to be determined before and after treatment with the filter unit which utilizes the Sao Joao filter.

RESULTS

<u>Water Contaminate</u>	<u>Initial Level</u>	<u>Final Level</u>	<u>Removal Efficiency</u>
Organics *	3300 ppm	< 3 ppm	> 99.9 %
Bacteria **	3500 CFU/ml	0 CFU/ml	100 %
Total Chlorine ***	10.0 mg/l	6.2 mg/l	62 %
Silver leaching ****		< 8 ug/l	-

ppm = Part per million, CFU/ml = Colony forming units/milliliter.

* Based on N-nonane analyzed by nuclear magnetic resonance.

** Based on total coliform analysis.

*** Based on DPD chlorine method (mg/l = milligrams per liter).

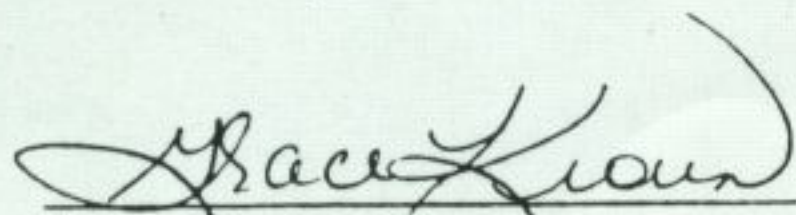
**** ug/l = micrograms per liter (50 ug/l is maximum recommended leaching).

CONCLUSIONS

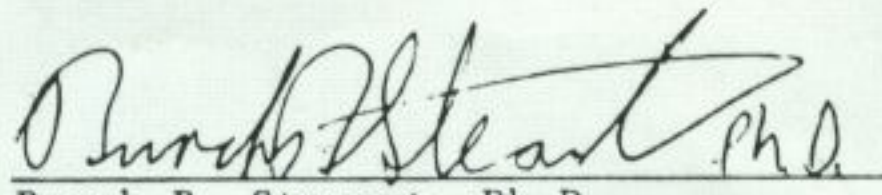
The "Stefani" unit shows satisfactory removal efficiencies for chlorine, organics and bacteria, and is therefore rated satisfactory for purifying drinking water. The silver leaching level does not exceed the recommended maximum of 50 ppb (mg/l).

END OF REPORT

Reviewed by:


Grace Keoun,
Analytical Chemist

Report by:


Burch B. Stewart, Ph.D.,
Director, Analytical Services

BBS/kal