

State of Florida



Public Service Commission

-M-E-M-O-R-A-N-D-U-M-

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**DATE:** January 18, 2002  
**TO:** Division of the Commission Clerk and Administrative Services and  
All Parties of Record  
**FROM:** Office of General Counsel (Jaeger)  
**RE:** Docket No. 010503-WU - Application for increase in water rates for Seven Springs  
System in Pasco County by Aloha Utilities, Inc.

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Attached is Late-Filed Exhibit 3, consisting of one page, which outlines the treatment process that Pasco County performs on its water.

RRJ/lw

cc: Division of Auditing and Safety (McPherson, Vandiver)  
Division of Economic Regulation (Fletcher, Jones, Lingo,  
Merchant, Stallcup, Wetherington, Willis)  
Department of Environmental Protection (Foster)  
Office of General Counsel (Espinoza)

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DOCUMENT NUMBER-DATE

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FPSC-COMMISSION CLERK

**LATE-FILED EXHIBIT 3**

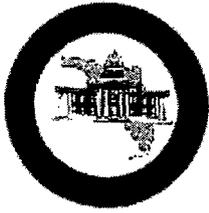
**WITNESS: Gerald Foster**

**DESCRIPTION:**

**Treatment Process that Pasco County Performs on its water**

**PROFERRING PARTY: STAFF**

**DOCKET NO. 010503-WU**



DADE CITY  
LAND O' LAKES  
NEW PORT RICHEY  
FAX

(352) 521-4274  
(813) 996-7341  
(727) 847-8145  
(727) 847-8064

UTILITIES DEPARTMENT  
PUB.WORKS/UTILITIES  
BLDG., S-205 7530 LITTLE ROAD  
NEW PORT RICHEY, FL 34654

January 11, 2002

VIA E-MAIL

Mr. Gerald Foster  
Environmental Specialist II  
Drinking Water Department  
Florida Dept. of Environmental Protection  
Southwest District  
3804 Coconut Palm Drive  
Tampa, FL 33619-8318

RE: Little Road WTP Treatment Processes

Dear Mr. Foster:

Per your request concerning specifics of water treatment at Pasco County's Little Road WTP, please note that the Little Road WTP receives raw water from the Starkey and North Pasco Wellfields, which tend to contain high concentrations of sulfides. Pasco County treats this water by first using a cascade aeration process to remove sulfides. The off-gas from the aeration process is treated in a scrubber that traps the sulfides under alkaline conditions, oxidizing them to sulfates.

After aeration, the raw water is sent to storage tanks containing cultures of a naturally-occurring bacteria belonging to the genus *Beggiatoa*. Pasco County does not add these bacteria to the water. Rather, they are already present in the raw water coming from the wellfields. These sulfur-oxidizing bacteria consist of colorless cells in unattached filaments and are typically found in sulfide-rich aquatic environments whereby they convert hydrogen sulfide into elemental sulfur. The water is then treated with chlorine, which removes the bacteria and oxidizes remaining sulfide.

Finally, the water is treated with sodium hydroxide, a caustic used to adjust pH for corrosion control within the distribution system.

If you have questions concerning this information, please contact me at (727) 847-8145.

Sincerely,

Douglas W. Yowell  
Operations and Maintenance Manager  
Pasco County Utilities