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DOCKET NO.: 060368-WS - Application for increase in water and wastewater rates in Alachua, Brevard, Highlands, Lake, Lee, Marion, Orange, Palm Beach, Pasco, Polk, Putnam, Seminole, Sumter, Volusia and Washington Counties by Aqua Utilities Florida, Inc.

WITNESS: Direct Testimony of Patricia Carrico Appearing on Behalf of the Staff of the Florida Public Service Commission.

DATE FILED: August 21, 2007

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DIRECT TESTIMONY OF PATRICIA CARRICO

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- 2 Q. Please state your name and business address.
- 3 A. Patricia Carrico, Volusia County Health Department, 1845 Holsonback Drive, Daytona
4 Beach, FL, 32117.
- 5 Q. Please state a brief description of your educational background and experience.
- 6 A. Frank L. Fulghum III, I received a Bachelor's of Science Degree in Environmental
7 Health-Major/Chemistry-Minor at Utah State University.
- 8 My previous employment is 12 years at the City of Daytona Beach Drinking Water
9 Plant and Laboratory; and 5 years at Amoco Oil Company, Whiting, Ind.
10 Environmental/ Quality Control Laboratory.
- 11 Q. By whom are you presently employed?
- 12 A. Currently, my employer is the Volusia County Health Department (VCHD).
- 13 Q. How long have you been employed with the VCHD and in what capacity?
- 14 A. I have been employed for six years as an Environmental Specialist II (Environmental
15 Health-Engineering Office).
- 16 Q. What are your general responsibilities at the VCHD?
- 17 A. I am responsible for ensuring that public water systems in Volusia County are in
18 compliance with federal and state Safe Drinking Water Act (SDWA) regulations. My
19 job duties include performing site inspections, reviewing laboratory reports, entering
20 results into the state's SDWA database, and initiating appropriate enforcement action,
21 when necessary.
- 22 Q. Are you familiar with Aqua Utilities Florida, Inc.'s (utility) water systems in Volusia
23 County, particularly the Jungle Den, Tomoka View, and Twin Rivers systems?
- 24 A. Yes.
- 25 Q. Does the utility have any current construction permits from the VCHD?

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1 A. No.

2 Q. Are the utility's treatment facilities and distribution systems sufficient to serve its
3 present customers?

4 A. Yes.

5 Q. Does the utility maintain the required 20 psi minimum pressure throughout the
6 distribution system?

7 A. Yes.

8 Q. Does the utility have certified operators as required by Chapter 62-602, Florida
9 Administrative Code?

10 A. Yes.

11 Q. Is the overall maintenance of the treatment plant and distribution facilities satisfactory?

12 A. Yes. However, there are some minor deficiencies that were cited in recent inspections.
13 During my inspection of the Tomoka View water system on 5/24/07, I noted that the
14 high service pump (#2) had a small water leak. Presently, the water to the distribution
15 system has to be shut down to repair a leak at the high service pump because isolation
16 valves are not present. In my inspection report, I recommended that one or more
17 isolation valves be installed at the high service pumps to eliminate the need to shut off
18 water to the distribution system during future repairs. During my inspection of the
19 Twin Rivers water system on July 19, 2007, I found that the bottom panel on the door
20 to the plant was damaged and needed repair. Jungle Den does not have a treatment
21 plant. It is a 'consecutive system' consisting only of a water distribution system. The
22 water is purchased from St. John's River Utility in Astor, FL.-PWS #3644127.

23 Q. Can you further comment on the corrections you identified above?

24 A. It is not uncommon to find a number of relatively minor deficiencies at water treatment
25 facilities. In general, the utility is doing a good job of maintaining these facilities.

- 1 Q. Does the finished water produced by the utility meet the State and Federal maximum
2 contaminant levels (MCL) for primary and secondary water quality standards?
- 3 A. Twin Rivers and Jungle Den meet the MCL's (Maximum Contaminant Levels).
4 Tomoka View does not. The secondary (MCL) for Total Dissolved Solids (TDS) and
5 Odor were exceeded in monitoring conducted in 2006, and during the first quarter and
6 second quarters of 2007. During this period, the reported Total Dissolved Solids
7 concentrations at Tomoka View ranged from 490 to 570 ppm (MCL = 500 ppm) and
8 the reported Odor was 4 - 14 odor units. (MCL = 3 odor units). However, the most
9 recent sample collected for Odor in July 2007 was 2.9 odor units – just below the
10 MCL. Secondary MCL's are set for aesthetic purposes and are not based on health
11 effects.
- 12 The primary MCL for Trihalomethane (THM) has been exceeded since monitoring for
13 this contaminant was initiated in 2004 through the 1st quarter of 2007. During this
14 period, the Tomoka View THM annual average ranged from 81 to 159 ppb. The THM
15 MCL is 80 ppb calculated as a running annual average of 4 quarterly samples.
16 Corrective treatment was installed in October 2006. Since then the THM
17 concentration has dropped below the 80 ppb MCL (44-65 ppb). Since the THM MCL
18 is based on a 4 quarter running annual average, the system still incurred an MCL
19 violation during the 1st quarter of 2007 even though the quarterly THM results have
20 been below the 80 ppb MCL since October 2006. In the second quarter of 2007, the
21 Tomoka View THM annual average dropped to 76 ppb- below the MCL - and the
22 system has returned to compliance.
- 23 Q. Does this include the lead and copper rule?
- 24 A. Yes. All three systems are presently in compliance with the lead and copper rule.
- 25 Q. Has the utility's compliance with the lead and copper rule resulted in a lessening of the

- 1 monitoring requirements?
- 2 A. Yes. Twin Rivers and Jungle Den have been reduced to tri-annual monitoring.
- 3 Tomoka View has been reduced to annual monitoring. Tomoka View exceeded the
- 4 Action Level for Copper during the July-Dec. 2005 monitoring period. Since then,
- 5 Tomoka View has been below the Action Level for both lead and copper.
- 6 Q. Does the utility monitor for the inorganic contaminants listed in Rule 62-55.513,
- 7 Florida Administrative Code, volatile organic contaminants (VOCs) listed in Rule 62-
- 8 55.515, Florida Administrative Code, synthetic organic contaminants (SOCs) listed in
- 9 Rule 62-55.516, Florida Administrative Code and all other compounds listed in Rule
- 10 62-550, Florida Administrative Code?
- 11 A. Yes.
- 12 Q. Do recent chemical analyses of raw and finished water, when compared to regulations,
- 13 suggest the need for additional treatment?
- 14 A. No. However, concerning the secondary MCL exceedences at the Tomoka View water
- 15 system: The Total Dissolved Solids is just slightly over the MCL. The most recent
- 16 reported odor concentration was slightly under the MCL. These secondary
- 17 contaminant MCL's are set for 'aesthetic' reasons (non-health related). The system
- 18 has been put on increased (quarterly) monitoring of these contaminants to more closely
- 19 monitor these concentrations, but no additional treatment is warranted at this time.
- 20 Q. Does the utility maintain the required chlorine residual or its equivalent throughout the
- 21 distribution system?
- 22 A. Yes.
- 23 Q. Are the plant and distribution systems in compliance with all the other provisions of
- 24 Chapter 62, Florida Administrative Code, not previously mentioned?
- 25 A. Yes.

1 Q. Has the utility been the subject of any VCHD enforcement action within the past two
2 years?
3 A. Twin Rivers and Jungle Den have not had enforcement action. Tomoka View has been
4 the subject of enforcement action as set forth below:
5 Warning Letter (Formal Enforcement with penalty):
6 11/16/06: Failure to comply with THM MCL (3rd qtr. 2006) and failure to report THM
7 results by due date of 10/10/06. (Note:3/08/07 Consent Order Agreement
8 Signed/\$1200 Penalty Paid) Non-Compliance Letters (Informal enforcement action –
9 no penalties assessed):
10 1/26/05 – 4/16/07: Failure to comply with THM MCL (4th qtr. 2004 through 2nd qtr.
11 2006; and 1st quarter 2007 – Total of 8 non-compliance letters sent for THM MCL
12 violations).
13 11/22/06: Failure to comply with Total Dissolved Solids and Odor MCL's.
14 8/16/05: Failure to submit Lead/Copper and THM results by required due date of
15 7/10/05.
16 Q. Do you have anything further to add?
17 A. No.
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BEFORE THE PUBLIC SERVICE COMMISSION

In re: Application for increase in water and wastewater rates in Alachua, Brevard, Highlands, Lake, Lee, Marion, Orange, Palm Beach, Pasco, Polk, Putnam, Seminole, Sumter, Volusia, and Washington Counties by Aqua Utilities Florida, Inc.	DOCKET NO. 060368-WS DATED: AUGUST 21, 2007
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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the DIRECT TESTIMONY OF PATRICIA CARRICO has been served by U.S. Mail to Kenneth A. Hoffman and Marsha E. Rule, Esquires, Rutledge, Ecenia, Purnell & Hoffman, P. A., P.O. Box 551, Tallahassee, FL 32302-0551, on behalf of AQUA UTILITIES FLORIDA, INC., and that a true and correct copy thereof has been furnished to the following by U. S. Mail, this 21st day of August, 2007:

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