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2006 JUN -5 P 3: 53

AZ CORP COMMISSION
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IN THE MATTER OF THE APPLICATION OF
BLACK MOUNTAIN SEWER COMPANY, AN
ARIZONA CORPORATION, FOR A
DETERMINATION OF THE FAIR VALUE OF
ITS UTILITY PLANT AND PROPERTY AND
FOR INCREASES IN ITS RATES AND
CHARGES FOR UTILITY SERVICE BASED
THEREON.

Docket No. SW-02361A-05-0657

NOTICE OF FILING

M. M. Schirtzinger P. E. hereby provides the following filing in the

above subject hearing.

Respectfully submitted this 31st day of May , 2006


M. M. Schirtzinger P. E.
Pro Se

1 AN ORIGINAL AND THIRTEEN COPIES
2 of the foregoing filed this 31st day
3 of May, 2006 with:

3 Docket Control
4 Arizona Corporation Commission
5 1200 West Washington
6 Phoenix, Arizona 85007

5 COPIES of the foregoing hand delivered/ *OK*
6 mailed this 31 day of May, 2006 to:

7 Teena Wolfe
8 Administrative Law Judge
9 Hearing Division
10 Arizona Corporation Commission
11 1200 West Washington
12 Phoenix, Arizona 85007

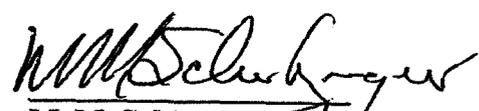
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22 Association
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24 Carefree, AZ 85377

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M. M. Schirtzinger P.E.
Pro Se

AFFIDAVIT OF M. M. SCHIRTZINGER

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

I, M. M. Schirtzinger, upon my oath, deposes and says:

1. I am a resident in the Boulders Subdivision and a customer of the Boulders Carefree Sewer Corporation (BCSC).
2. I am a retired professional engineer admitted to practice in the states of Ohio, Michigan, Kentucky, Indiana, Pennsylvania and Florida.
3. For over 45 years I was the Owner, President and Chief Engineer of M. M. Schirtzinger and Associates, a consulting environmental engineering company. In addition to being CEO, my tasks included the concept, execution and assistance in arranging financing for the construction of all projects undertaken by the firm. Total construction costs were over \$500,000,000. Projects designed were for States, Cities, Villages, Conservancy Districts, pulp and paper mills and private developers. Wastewater projects were designed to handle from 0.1 to 40 mgd and included a 20 mgd energy independent WWTP, the first use of air driven rotary biological contactors, the first use of low pressure sewer systems in Ohio and the first use of aerated stabilization basins for combined industrial and municipal wastewater.
4. I have read the various affidavits submitted. In my opinion, except for the grease trap policy and enforcement and for re-working the pumps at the lift stations, none of the Carter Burgess recommendations are sound and all have high operating costs.
5. In my opinion, many of the efforts of the BCSC were not the most efficient concepts or environmentally sound. No evidence has been submitted that a sewer system survey was conducted. It is possible that some of the odor results from damaged sewer lines that no longer have a proper slope or alignment and may be partially blocked.
6. Sewer odors are principally hydrogen sulfide resulting from the microbial action of sulfur reducing bacteria. These bacteria do not survive except under anaerobic conditions. When low flows result in stagnant sewage flow, anaerobic conditions develop. Using chemicals to solve the problem is not environmentally sound and attempting to contain hydrogen sulfide by sealing manholes is not cost effective. The solution is simple – increased flow in the affected lines. This can be done by recycling treated wastewater under pressure through “gray water lines” and using an aspirating device to add air (oxygen) to the sewage flow. Such “gray water lines” can also be tapped onto by homeowners along the route of the line and the reclaimed water used for

drip irrigation systems replacing fresh water. This is an environmentally sound solution that is forward looking.

7. It also appears that the biological reactors (aeration tanks) at the WWTP or WRF are not the most efficient. The technical aspects of this are complex and will not be presented herein. The need for dual force mains can be eliminated by the use of pressure grinder type pumps that allow high heads and short cycles. Only the 4" force main would be needed since a velocity of more than 2.0 fps can easily be maintained. This makes the 6" force main available for the "gray water Line" for efficient recycling of treated wastewater for odor control.

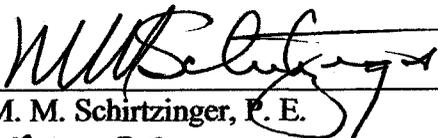
8. In all of the official documents I have reviewed, I see a very small credit given to the value of treated wastewater used at the Boulders Resort. The water reclamation plant (WRP) really operates to provide irrigation water at the Resort. Sludge is discharged to Scottsdale for processing. Sludge handling is the most difficult part of wastewater treatment.

9. No data has been presented as to the administrative costs of BCSC. Very little executive direction is necessary for routine operations. Without data on overhead, profit and administrative costs allocated to BCSC and subsequently to their customers, a decision on rates should not be made. Billing has been outsourced and meter reading is unnecessary because of the "flat sewer rate," the Commission should offer no rate adjustment (up or down) until administrative costs and profits are revealed.

10. At one time I lived in Scottsdale and sewer use charges were about \$15.00 per month. This is reasonable. As a professional in the waste treatment field and a customer of BCSC, I object to any rate increase because BCSC should improve the efficiency of its present utility plant before any rate adjustment should be made. If an adjustment is made, it should be a decrease not an increase in rates based on improved treatment efficiency and chemical savings.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge and belief.

Dated this 31st day of MAY, 2006.



M. M. Schirtzinger, P. E.
PRO SE