

VIRGINIA:

At a recessed meeting of the Washington County Board of Supervisors held Tuesday, March 10, 1998, at 5:30 p.m., in Conference Room No. 1 at the County Administration Building in Abingdon, Virginia, the following were present:

PRESENT:

Bobby D. Ingle, Chairman
Dulcie M. Mumpower, Vice Chairman
Kenneth G. Mathews
Joe W. Derting
James T. Osborne
John B. Roberts, Sr.
Jackson Barker

Mark K. Reeter, County Administrator
John A. Martin, County Attorney

Sandra M. Hatfield, CPS, Administrative Assistant

ABSENT:

Mark W. Seamon, Accounting/Purchasing Manager

1 **Call Recess Meeting to Order**

The recessed meeting was called to order by Mr. Bobby D. Ingle, Chairman of the Board, who welcomed everyone in attendance.

Mr. Ingle recognized the following members of the Washington County Service Authority who were present in the audience:

John Henderson, Vice Chairman
Frank Stephon
Scott Rector
Daniel Reynolds

David Dawson, General Manager

Dr. Dawson commented that the Service Authority members are meeting as a committee to listen to the results of the Washington County 604(b) Water and Sewer Study.

Present from Draper Aden Associates were the following:

William Aden, President
Randall Hancock
Don Marakovich

2 **Opening Comments by Chairman Bobby D. Ingle**

Mr. Ingle opened the meeting by giving a brief overview of the background leading to an agreement with

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Authority,
providing
a blue
print for
future
County
planning.

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Presentation of 604(b) Water and Sewer Planning Study

Mr. Aden referenced the Washington County 604(b) Water and Sewer Study document informally presented to the Supervisors at an earlier date, made some brief comments, and turned the formal presentation over to Don Marakovich.

Mr. Marakovich outlined the results of the water and sewer study that encompassed eight study areas in Washington County, highlighting the following findings and recommendations:

A1. Washington County Industrial Park Connection to the Emory Meadowview Sewer System

Several options that would reduce the cost to the County of operating the industrial park wastewater treatment plant were evaluated. The annual operating cost of the plant is \$60,000 to \$70,000 more than the annual revenues generated by the park's user fees.

The installation of a 6,800 linear foot force main from the treatment plant to the nearby Meadowview sewage collection system is recommended. After the line is in place, the treatment plant can be shut down. Annual savings to the County will be approximately \$63,000. The capital cost to install the line is \$231,000. The plant's discharge permit would be maintained so that it could be started up again in the future if needed.

A2. East Central Washington County Sewer Extensions

The extension of sewer service to the Lee Highway/I-81 corridor from the Town of Abingdon's Service area eastward to the Washington County/Smyth County line was evaluated.

Preliminary layouts of collection systems totaling 220,000 linear feet of line, serving 818 connections were developed. The estimated capital cost for the construction of the

system is \$10.94M. A phased construction schedule starting in the year 2003 and continuing through the year 2009 is recommended. The Emory Meadowview wastewater treatment plant should be able to treat the expected flows from the East Central systems with several plant upgrades.

A3. West Central Washington County Sewer Extensions

The extension of sewer service to the Lee Highway/I-81 corridor from the City of Bristol's limits to the Town of Abingdon was evaluated.

Eight projects totaling 215,000 feet of sewer line and serving 1275 connections are recommended to serve this area at a total capital cost of \$11.99M. The recommended construction schedule is from 1999 to the year 2003 for five of the projects that are considered the highest priority. In addition, three projects in the West Central Area that are in the Town of Abingdon's area were estimated. These projects total 166,100 linear feet of line, would serve approximately 740 connections and cost \$8.66M. These projects are recommended for construction from 2006 to 2009.

A4. High Meadows Community Sewer Extension Service

The extension of sewer service to the High Meadows community was evaluated.

The proposed High Meadows project consisting of 18,540 linear feet, serving 170 connections and with a capital cost of \$1.035M is recommended for construction in the year 2000.

A5. Larwood Acres Sewer Extension Service

The extension of sewer service to the Larwood Acres community was evaluated.

The proposed Larwood Acres collection system consists of 18,375 linear feet of line and serves 126 connections. The estimated cost of the system is \$1.146M. The project is recommended for construction in the year 2001.

A6. West Central Washington County Area Sewage Treatment

Five options for treatment of the sewage collected in the West Central systems were evaluated. The options involved a combination of treatment by the Bristol Virginia Utilities Board (BVUB) and treatment at new wastewater treatment plants located in Washington County.

Two locations for a new treatment plant were identified. One is along Sinking Creek just north of the Virginia/Tennessee border. The other location is along Spring Creek. Construction of the Sinking Creek plant will be controversial due to its location. The Department of Environmental Quality (DEQ) has provided tentative limits for both of these locations and it appears that tertiary treatment may be required at both locations thereby increasing the costs of the plants. As the cost of purchasing treatment capacity from BVUB is likely to be much less than the cost of constructing and operating new treatment plants, it is recommended that the County use BVUB treatment to the maximum extent possible.

The County currently owns 572,000 gpd of BVUB's treatment capacity. The purchase of additional capacity will be required in order to extend sewer service to the West Central Area. Over the next 20 years, it is recommended that the County purchase at least an additional 900,000 gpd of treatment capacity. Based on the recommended construction schedule, the current 572,000 gallon treatment capacity could be exceeded by the year 2001.

A7. Emory Meadowview Regional Wastewater Treatment Plant Expansion

The expansion of the Emory Meadowview wastewater treatment plant was evaluated in the context of the increased flow from the systems discussed in items 1 and 2 above.

Two expansions of the plant are recommended. The first, probably required in 1999, is a planned expansion to bring the treatment capacity up to 630,000 gpd. This expansion will cost an estimated \$345,000 and involves putting the outermost oxidation ditch in operation. The second expansion is to increase the capacity up to 800,000 gpd. This is likely to be required during the year 2006. The estimated cost is \$695,500. The majority of the cost involves the addition of an effluent filter to meet more stringent effluent limits at the higher flow. Plant operational data may show that this filter is not necessary. After the second expansion, the plant should be able to treat the flows from the current collection systems plus the new East Central systems through the year 2018.

A8. Town of Damascus

The Town's collection system has been plagued by severe Infiltration & Inflow (I&I) problems that during heavy rain events overwhelm the treatment plant. A limited I&I study consisting of inspecting critical manholes was conducted. However, as conditions were unusually dry during the period of this study, these inspections, the study was of limited value. Specific recommendations such as repairing a number of manholes and replacing some gravity line that sits in a creek bed are contained in this report. @

Mr. Marakovich provided detailed data for each study area recommendation, copies of related maps, and recommended phasing of sewage collection system projects.

It was noted that the ten-year time frame for implementation of these projects was very aggressive and represented the shortest conceivable time in which all projects could be designed and constructed. Limitations on funding, competing priorities and other factors will most likely spread implementation of these projects over twenty years or more. Some projects may not be undertaken due to financing considerations. The 604(b) study is intended only to provide general guidance to the construction of sanitary sewer system infrastructures within the area of the County that were part of the study.

4 **Questions from Board of Supervisors and Washington County Service Authority**

There being no immediate questions, Mr. Ingle expressed the Supervisor's appreciation for the comprehensive study Draper Aden Associates completed.

5 **Adjournment**

On motion of Mrs. Mumpower, second by Mr. Mathews, it was resolved to adjourn the meeting.

The vote on this motion was as follows: (7-0)

<i>Mr. Ingle</i>	<i>Aye</i>	<i>Mrs. Mumpower</i>	<i>Aye</i>	<i>Mr. Mathews</i>	<i>Aye</i>
<i>Mr. Derting</i>	<i>Aye</i>	<i>Mr. Osborne</i>	<i>Aye</i>	<i>Mr. Roberts</i>	<i>Aye</i>
<i>Mr. Barker</i>	<i>Aye</i>				

