

RWSA BOARD OF DIRECTORS
Minutes of Regular Meeting
October 28, 2002

A regular meeting of the Rivanna Water and Sewer Authority (RWSA) Board of Directors was held on Monday, October 28, 2002, at 2:05 p.m., in the Conference Room, Administration Building, 200 Franklin Street, Charlottesville, Virginia.

Board members present: Mr. William Brent, Dr. Richard Collins – Presiding, Mrs. Judith Mueller, Mr. Gary O’Connell, and Mr. Robert Tucker

Authority staff present: Mr. Lawrence Tropea, Mr. Lonnie Wood, Mr. Stephen Bowler, Mr. Richard Defibaugh, Mr. Norman Wescoat, Mr. Wayne Stephens, Mr. Chuck Kent, Mr. Bruce Edmonds, Ms. Anne Bedarf and Mrs. Mary Knowles.

Also present: Mr. Kurt Krueger - RWSA Attorney, members of the public and media representatives.

1.0 Call To Order

The regular meeting of the RWSA Board of Directors was called to order by Dr. Richard Collins on Monday, October 28, 2002 at 2:05 p.m., and a quorum was present.

2.0 Minutes Of Previous Board Meetings

In regards to Item 2a), draft Minutes of the regular meeting of the Board on September 23, 2002, a motion was made by Mr. Tucker, and seconded by Mrs. Mueller, that the Board of Directors vote to approve the minutes of the regular Board meeting held on Monday, September 23, 2002, with the following correction to page 4, paragraph 2, line 4: “cfs to gallons” corrected to read “cf to gallons.” By a vote of 5-0, the minutes were approved as corrected.

In regards to Item 2b), Minutes of the special meeting of the Board on October 9, 2002, a motion was made by Mr. Tucker, and seconded by Mrs. Mueller, to approve the minutes of the special Board meeting held on Monday, October 9, 2002. By a vote of 5-0, the minutes were approved.

3.0 Executive Director’s Report

Mr. Tropea reported on the following items:

EMERGENCY REPAIRS UPDATE:

Mr. Tropea stated that the repair to the Meadow Creek Interceptor line has been completed.

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3.0 Executive Director's Report Cont. October 28, 2002

He also reported that repairs to the 54-inch effluent line at the Moores Creek wastewater treatment plant will be underway as soon as RWSA receives approval from the Army Corps of Engineers to work along the banks of Moores Creek.

DIRECTOR OF WATER AND WASTEWATER OPERATIONS RECRUITMENT:

Mr. Tropea stated that RWSA is currently in the process of advertising for a Director of Water and Wastewater Operations. He further stated that an ad has been placed in several newspapers and has also been placed on a number of national websites. He added that RWSA hopes to complete the recruitment and hiring process by January 1, 2003.

RIVANNA PUMP STATION ODOR CONTROL: Mr. Tropea reported that a contractor has been selected, but other demands have precluded RWSA from moving forward with the study. He added that RWSA hopes to be able to address this important study within the next 30 to 60 days.

Dr. Collins asked if the neighborhood most affected by an extension of the study had been contacted. Mr. Tropea replied that residents would be apprised of the situation.

MEADOW CREEK INTERCEPTOR STUDY: Mr. Tropea reported that RWSA has received qualification packages from a number of firms. He stated that Mr. Brent and Mrs. Mueller offered that RWSA use Paul Shoop of the Albemarle County Service Authority and Jim Palmborg of the City to assist with the review process in order to move forward with the study. Mr. Tropea expressed his appreciation to the City and the Albemarle County Service Authority for offering the assistance of their staff.

UPDATE ON THE DROUGHT AND THE WATER SUPPLY: Mr. Tropea gave a presentation entitled "More On The Drought Of 2002 And Its Water Supply Implications." Mr. Tropea pointed out that the U.S. Drought Monitor, updated on October 22, 2002, placed Charlottesville in the "Severe" drought category, as compared to the "Extreme" drought designation on the September graph. He added that despite the recent rainfall, the area is still experiencing a four-year rainfall deficit of 39.31 inches.

Mr. Tropea stated that stream flow in the Mechums River has recently increased from 0 cfs to 9.8 cfs, which is still significantly below the median daily stream flow of 42 cfs. He further stated that although the area streams are showing signs of recovery with the recent rainfall, he believed the drought was not over.

Mr. Tropea displayed the most recent raw water storage graph, which illustrated the impact of the recent rainfall on the reservoirs. He stated that the South Fork Rivanna watershed consists of 258 square miles, and one of the recent rains dropped 1.9 inches of rain across the large watershed which then flowed to the South Fork Rivanna Reservoir.

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3.0 Executive Director's Report Cont. October 28, 2002

Mr. Tropea reported that the reservoir levels increased from 53.1 percent in September to 73.0 percent in October, which is a gain of 333,520,000 gallons of water or 47 additional days of water at a 7 MGD demand level. He stated that the number of remaining days could be further extended by implementing the RWSA “Doomsday” strategy.

Mr. Tropea stated that the Daily Water Consumption chart illustrates the tremendous job the community has done with their water conservation efforts.

Mr. Tropea reported that urban water consumption rates are about 20 percent lower this September compared to September 2001. He also pointed out that water consumption has fallen significantly since the Phase 2 water use restrictions were implemented in late September.

Mr. Tropea stated that RWSA’s strategic game plan is to fast track the Board-approved future water supply plan, especially the four-foot crest controls. He further stated that RWSA would also like to move forward with the “opportunity dredging” and, in the future, seek new incremental water supply additions. He added that RWSA also needs to be ready to implement the “Doomsday” water supply plan in the future, but hopes that the plan will never actually need to be activated. Mr. Tropea commented that physical improvements at the Observatory and North Fork water treatment plants would also assist by providing more operating flexibility.

Mr. Tropea commented that the community needs to continue to conserve water, however, as it is uncertain what the precipitation levels will be over the next 90 to 120 days. He stated that winter precipitation will be critical to the reservoir levels next summer.

In response to a question from Mr. O’Connell, Mr. Tropea stated that October water consumption levels are generally somewhat lower than the September consumption levels each year. He further stated that in September 2001, the area water demand was 352,000,000 gallons. He added that in October 2001, the demand only fell to 346,000,000 gallons.

Mr. O’Connell inquired if there was a significant variation in the water levels of the reservoirs in our system. Mr. Tropea replied that the South Fork Rivanna Reservoir is currently within 0.4 of a foot of being full. He stated that both the Ragged Mountain Reservoir and the Sugar Hollow Reservoir will be very slow to fill because of their small watersheds.

4.0 Items From The Public

Mrs. Lois Rochester, speaking on behalf of the League of Women Voters, read the following prepared statement:

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4.0 Items From The Public Cont.

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“The League is here today to plead for increased communication with the public on two fronts: the emergency water supply alternatives (a term we prefer to “Doomsday Plan”) and the future water supply plans.

We know that the drought and the water crisis have been major concerns in recent days. We commend the RWSA Board and staff, the City, the County and the ACSA for their actions to address the problems. Thanks to these efforts, people do seem to understand the need for continued water conservation during the drought. In addition, we are heartened and reassured by the proposals developed by O’Brien and Gere Engineers and think that a public briefing in the near future, as suggested by Larry Tropea, would be an excellent idea.

In regard to future water supply, the League was very pleased on August 26 when the RWSA Board approved the Water Supply Strategy for the Urban Water Service Area. This was a milestone in the costly five-year-long process which produced several official reports and which included numerous public meetings to discuss and debate the Future Water Supply Alternatives available to our community. The problem we see is that in spite of widespread media coverage many people in the community still don’t seem to be aware of either the existence or the substance of the whole, integrated strategy. Many seem to know only bits and pieces. We think it is very important that the Rivanna Authority announce the strategy publicly as soon as possible in as many ways as possible. The public, having had ample opportunity to be involved in the development of the adopted strategy, should be informed about the outcome of the deliberative process in a timely fashion. Rumors and speculation should be put to rest, and people should be made to understand what to expect or not expect in the future. Then let’s hope the community can move on, confident that water supply planning is under control for the next several years.”

Dr. Collins commented to Mrs. Rochester that her remarks have been noted and would be considered in future discussions concerning the future water supply plan.

5.0 Consent Agenda

Dr. Collins asked if there were any items that the Board members would like to pull for discussion regarding the Consent Agenda.

- 5a) Staff Report on Finance
- 5b) Staff Report on Operations
- 5c) Staff Report on Ongoing Projects
- 5d) Safety Manager’s Report

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5.0 Consent Agenda Cont.

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In regards to Item 5a), Staff Report on Finance, Mr. O’Connell suggested that in future reports, an explanation be included which outlines RWSA’s budgetary status based on

current average water consumption as it projects to the end of the year figures.

In regards to Item 5c), Staff Report on Ongoing Projects, Mr. O'Connell inquired if Mr. Tropea would be updating the Board today on the permitting process for the dredging project. Mr. Tropea replied in the affirmative.

Upon a motion by Mr. Tucker, and seconded by Mr. Brent, the Board of Directors voted to approve Items 5a), b), c), and d) of the Consent Agenda. By a vote of 5-0, the Consent Agenda was approved.

6.0 Other Business

In regards to Item 6a), O'Brien & Gere Presentation on the "Doomsday" Water Supply Plan, the Four-Food Crest Control and the Cost of the Future Water Supply Strategy, Mr. Tropea reported that he had invited Mr. George Rest, Senior Vice President, and Mr. Thomas Dumm, Project Manager, from O'Brien & Gere to discuss the study work they have undertaken for RWSA. He stated that both of them are very knowledgeable about the issues as they have been involved as a part RWSA's water supply team in the past.

Mr. Rest stated that he and Mr. Dumm would be presenting an overview of the "Doomsday" Water Supply Plan and would also be displaying slides on the potential to expedite the four-foot crest control project.

Mr. Rest stated that their primary study objectives, as defined by RWSA, were to provide the quantity of water needed for the basic needs of the community, focus on supply augmentation, enhance or preserve the remaining storage and minimize expenditures.

Mr. Rest commented that O'Brien & Gere began its work by reviewing RWSA's "Doomsday" Water Supply Plan and participating in work sessions with RWSA staff. He stated that visits were made to all RWSA facilities. He further stated that preliminary discussions were also held with regulatory agencies concerning water supply alternatives.

Mr. Rest stated that their report indicated that there were four preferred alternatives in the "Doomsday" water supply scenario. He stated that first involved the release of water from the Chris Greene Lake to be treated at the North Fork Rivanna water treatment plant. He added that Chris Greene Lake has 330 million gallons of storage capacity and was full at the time of the study. Mr. Rest commented that the challenge involved with this option is to maximize water benefits, given that the North Fork Rivanna plant has a limited treatment capacity. Mr. Rest reported that repairs are currently being done at the North Fork Rivanna plant to bring it to full capacity for potential full use during the drought crisis.

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Mr. Rest stated that the Beaver Creek Reservoir serves the Crozet area. He further stated that Crozet is only currently drawing about 0.3 MGD. He added that the Beaver Creek Reservoir has a potential to supply Crozet with up to 2 MGD and still allow us to access about 200 million gallons of that water supply and deliver into the Sugar Hollow/Ragged

Mountain system for use in the urban system. In response to a question by Mr. O'Connell, Mr. Rest replied that the Beaver Creek Reservoir's storage capacity is about 520 million gallons of water. He added that when the O'Brien & Gere inspection was held there was about 350 million gallons or so in the reservoir because of the drought conditions. He further stated that if you left enough water in the reservoir to supply Crozet's water needs for a full year, there would still remain about 200 million gallons of water that could be transferred on a short-term basis. Mr. Rest reported that the dam was actually built significantly higher than the pool elevation to handle floods, and this allows for an additional 600 million gallons of storage. He stated that the normal pool could potentially be raised by significantly enhancing the emergency spillway. Mr. Rest also stated that O'Brien & Gere had suggested that RWSA consider including this strategy as one of the interim future options, as it might be more economical than the other options.

Mr. Rest stated that Lake Albemarle is owned by the Virginia Department of Game and Inland Fisheries and has a storage volume of about 150 million gallons. He also stated that there have been discussions with the state concerning the use of Lake Albemarle as an emergency water supply. Mr. Rest reported that the dam is very close to the pipeline from the Sugar Hollow Reservoir to the Ragged Mountain Reservoir to the Observatory plant.

Mr. Rest reported that the last "Doomsday" plan item deals with the South Fork Rivanna Reservoir. He stated that the South Fork Rivanna Reservoir has an outlet structure with a series of outlet ports to draw water from various levels. He further stated that after removing water from the lowest outlet, you would still leave what is called a "heel" of water. Mr. Rest added that O'Brien & Gere determined that this water could be accessed by using portable barge-mounted pumps and portable power supplies. He commented that this option would be the last one to be implemented due to the cost and the water treatment issues.

Mr. Rest stated that other alternatives were considered in the event of worsening drought conditions, and the next most practical option was indirect wastewater reuse. He added that the treated effluent water from the Moores Creek wastewater treatment plant would have to be pumped quite a distance to the headwaters of the Mechums River, which in turn drains to the South Fork Rivanna Reservoir, where it could be treated at the South Fork Rivanna water treatment plant. Mr. Rest added that although this option is costly, the advantage is that there would be a clear guaranteed amount of water.

Mr. Rest reported that additional alternatives were examined but were found to be either impractical or extremely expensive.

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Mr. Rest further stated that RWSA's objective was to preserve the water supply as far into the future as possible. Mr. Rest commented that the one strategy that could be implemented immediately was the Chris Green Lake option.

Mr. Rest reported that the next step would be to proceed with the either the Lake Albemarle

or the Beaver Creek option in January 2003, if needed. He stated that Lake Albemarle has about 150 million gallons of water, and Beaver Creek has 200 million gallons of water available after allowing for Crozet's water needs. He added that these water supplies could be drawn into the pipeline that goes from the Sugar Hollow Reservoir, to the Ragged Mountain Reservoir, to the Observatory water treatment plant. He added that this would extend the present water supply for an additional three months. Mr. Rest commented that any rainfall received during this time would further extend the time frames. He also stated that in a "Doomsday" scenario, RWSA might need to begin using the "heel" of the South Fork Rivanna Reservoir around June 2003, which would provide drinking water until August 2003. Mr. Rest further stated that if water demand was reduced to 5 MGD, the time frames would be further extended to October 2003.

Mr. O'Connell inquired if O'Brien & Gere had studied the impact of reservoir levels under their "Doomsday" options if water consumption rates returned to normal levels. Mr. Rest responded that the scenario was not addressed in their study, but it could easily be included at the Board's request.

Mrs. Mueller asked if the charts could be used as a "living model" that RWSA could continue to update for future years. Mr. Rest responded that a more sophisticated model could be developed which would better meet the need.

Dr. Collins stated that we could treat the "Doomsday" elements as part of our safe yield rather than as an emergency provision. Mr. Rest stated that accessing some of the safe yield from Chris Greene Lake and the Beaver Creek Reservoir on an ongoing basis was a viable option.

Dr. Collins asked Mr. Tucker if the Crozet area's current water usage, and reasonable future water needs, have been determined in relation to future demands on the reservoir. Mr. Tucker replied that if this has not been determined at this point, he felt it could easily be done. He also stated that the County does not own all the land surrounding the Beaver Creek Reservoir, and that RWSA must consider the potential impact of flooding of the area if the dam's water level was raised to the flood spillway. Mr. Rest responded that he felt these issues could be worked out, and the Beaver Creek Reservoir alternative could potentially provide a significant enhancement of the safe yield of the urban water supply system.

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Mr. Brent commented that if Chris Greene Lake is incorporated into the safe yield, the recreational value of the lake may be sacrificed. Mr. Rest responded that if the plan is to only optimize the existing facilities by withdrawing 2 MGD, as opposed to 5 MGD or greater, there would only be a two-foot draw down.

Mr. Dumm commented that the O'Brien & Gere charts are based on zero inflow conditions.

He stated that other water sources would be utilized through late summer, and then, after a dry fall, the Chris Greene Lake option could be implemented after the recreational season has ended.

In response to a request from Mr. O'Connell, Mr. Rest overviewed the "Doomsday" water supply plan. Mr. Rest stated that Chris Greene Lake has 330 million gallons of total storage, and Lake Albemarle has about 150 million gallons of total storage. He further stated that Beaver Creek has 520 million gallons of storage at the normal pool elevation and a potential 600 million gallons of additional flood storage capacity. He added that at the time of the study, there was about 315 MG to 400 MG actually in the reservoir. Mr. Rest commented that about 200 MG could be used for emergency purposes, which would leave 150 MG to 200 MG for Crozet water needs.

Mr. Rest reported that these four options could be used to prolong RWSA water supply for about three to four months at a cost of about \$265,000 to \$850,000. He stated that the higher cost was based on the potential need to build a pipeline from the Beaver Creek Reservoir to the Ragged Mountain Reservoir raw water pipeline.

Mr. Tropea referred back to the slide in his earlier presentation on the water supply strategy which stated that RWSA needs to find a way to take the Board-approved strategy and implement it as effectively and as expediently as possible. He stated that another point in his presentation highlighted the need to take advantage of incremental water supply expansions, but he cautioned that we must now be focused on implementing the future water supply plan.

Mr. Rest next gave a presentation on time lines and costs associated with the overall water supply plan, and especially, the four-foot Crest Control Project. He reported that it would take a little over four years to complete the project.

Mr. Rest reviewed the following costs associated with the approved water supply plan:

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<u>COMPONENT</u>	<u>COST</u> <u>(MILLIONS)</u>
4-Foot Crest Controls	\$ 7.5
Mechums River Pump Station	0.5
Dredging (2002)	1.0
Other Supply Measures	0.9
SUBTOTAL	9.9

Related Non-supply Measures	3.3
TOTAL	\$ 13.2

Mr. Rest explained “related non-supply measures” to be improvements to the Observatory and North Fork Rivanna water treatment plants and related facilities to make the system more effective and flexible.

Mr. Rest reported that this water supply plan is intended to provide enough drinking water through the year 2030, with the understanding that RWSA still may need additional source enhancement after that time.

Mr. Rest next described the “accelerated implementation plan,” developed by O’Brien & Gere, for the four-foot crest control project. He stated that the accelerated schedule would not greatly impact the costs, but he explained that there were greater risks involved with this strategy.

Mr. Rest stated that for the accelerated schedule to be effective, the following key assumptions must transpire:

- Cooperation from VDOT to allow full or partial bladder inflation is essential;
- Payment into a wetlands bank rather than on-site mitigation, which could be more expensive but could significantly reduce the negotiation time.

Mr. Rest reported that the baseline schedule for the permitting, design and construction process could be streamlined from 4 years to about 16 months with the successful implementation of the accelerated strategy.

Mr. Rest outlined the risks involved with the “Accelerated Implementation Plan” in the following areas:

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- Cooperation of permitting agencies.
- Re-design if permit negotiations change the design.
- Construction changes if permitting changes the design.
- Delays by VDOT; or, delays in land acquisition.
- Higher wetlands mitigation costs if we use the wetlands bank.

Mr. Rest stated that he believed the budget that has been established allows adequate funding for the higher costs associated with the wetlands bank issue. In response to a question from Dr. Collins, Mr. Rest replied that costs could be 20 to 40 percent higher for the wetlands bank option. Mr. Dumm reported that \$760,000 was budgeted in the project

for the five acres of potential wetlands impact, at a two to one replacement level.

Dr. Collins asked if Mr. Rest felt the issues of in-stream flows, or minimum environmental flows of fisheries, would be a potential problem with expediting the permitting process. Mr. Rest stated that a lot of discussion has already taken place with the regulators, and he felt these matters could be worked out.

Mr. Rest commented that he could not absolutely guarantee that RWSA could accomplish the project in the 16-month time frame, but he believed that the original schedule could be significantly reduced by performing concurrent activities

Dr. Collins asked about the potential regulatory approvals. Mr. Rest commented that areas that could potentially cause delays in the accelerated schedule would be the VDOT agreement on the Ivy Creek bridge and the permit approvals. In response to questions from the Board, Mr. Rest stated that the Water Supply Plan budget does include funds for the bridge replacement.

Mr. Tropea asked if there were any additional questions for Mr. Rest and Mr. Dumm. Mr. Barry Hartland, a local resident in attendance at the Board meeting, stated that he had not read the strategy, but he inquired what the plan does for the capacity of the current reservoir supply. Mr. Tropea replied that the four-foot crest controls add 600 million gallons of water to the reservoirs, and depending on the demand, it could add 60 days of supply at 10 MGD. He added that the crest controls would add 7MGD of safe yield to the reservoir system.

Mr. Hartland further inquired if the area was not in the middle of a drought, and RWSA was planning for capacity addition in an orderly fashion, would this strategy be one of the suggestions that you would have to increase the capacity. Mr. Rest responded that this has been the recommended strategy for over a year.

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Mr. Hartland also asked what O'Brien & Gere considered to be a reasonable daily water consumption level. Mr. Tropea stated that numerous studies have been done on the design capacity of the water supply system and the predicted future water demand. He recommended that Mr. Hartland review these documents to understand the amount of effort that went into these plans.

Dr. Collins asked if any Board members had further questions of the consultants at this time. Mrs. Mueller requested that the Executive Director bring everyone up to date on the meetings held earlier in the day with regulatory agencies. Mr. Tropea stated that this morning he, along with representatives from the Albemarle County Service Authority, the City of Charlottesville, and Mr. Stephen Bowler, met with DEQ representatives, the head of

the Virginia Marine Resources Commission and representatives from the Department of Game and Inland Fisheries. Mr. Tropea reported that the meeting was very positive and that there was agreement on the need to expedite improvements to address the drought. He added that it appears that Department of Game and Inland Fisheries officials would allow RWSA to use 10 or 12 feet of the water in Lake Albemarle. He commented that the officials need to preserve some amount of water in Lake Albemarle to keep the fish population alive. Mr. Tropea also stated that an agreement letter would be drafted, and RWSA should receive permission to access Lake Albemarle on an emergency basis in the near future.

Mr. Tropea reported that the Mechums River pump station was also discussed during the meeting, and he stated there was agreement between the Corps of Engineers and DEQ that a Nationwide 3 permit would be issued to allow RWSA to rebuild the pump station. He stated that the approval would probably include some special conditions to protect fish in the Mechums River.

Mr. Tropea stated that RWSA also received good news on the dredging project. He reported that the Corps of Engineers is in agreement with DEQ that a Nationwide 18 could be issued. He added that a letter requesting the permit now needs to be sent to the Corps of Engineers. Mr. Tropea commented that the Virginia Marine Resources Commission stated they would not require a permit as long as RWSA did not alter the historical streambed.

Dr. Collins clarified for the public present at the meeting that a "Nationwide permit" is an expedited procedure in which public hearings and other kinds of citizen participation is limited.

Mr. Tropea reported that discussions were also held concerning the four-foot crest control project during the meeting. He stated that there are two key items that need to be done at this time. The detailed aerial photography is needed to delineate the water level at the higher dam elevation. Mr. Tropea commented that this will need to wait until all the leaves are off

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the trees, otherwise the aerial photographs would be distorted. He further stated that, as part of the process, RWSA needs to more accurately delineate the wetlands impact.

Mr. Tropea stated that the wetlands impact and the permit application itself were discussed today with DEQ. He further stated that if RWSA could submit the permit application by December 31, 2002, DEQ felt they could issue their permit by late fall of 2003.

Mr. Tropea reported that RWSA needs to contact other regulatory agencies, including VDOT, but that RWSA wanted to meet with the key environmental resource agencies first. He added that arrangements would be made to meet with VDOT in the next couple of weeks.

Mr. Tropea stated that the reservoir expansion will also potentially involve the Federal

Energy Regulatory Commission due to a change in the reservoir footprint.

Mr. Tropea stated that he would give high marks to the state officials because they understood the seriousness of the drought situation. He further stated that the state officials were very impressed with the strategies that have been implemented locally and with the decrease in water consumption achieved by residents, which he felt sets the stage for cooperative efforts on the future water supply plan.

At this time, Dr. Collins asked if any members of the public in attendance at today's meeting had any questions for the consultants.

Mrs. Lois Rochester asked if the regulatory agencies were going to expect our community to keep its water demand level at 7 MGD. Mr. Tropea responded that he felt the impact of this drought would hopefully make all of us better water stewards and that RWSA has incorporated water conservation into the water supply plan. He also praised the efforts of the City of Charlottesville and the Albemarle County Service Authority for their water conservation education and outreach. Mr. Tropea added that RWSA would continue to strongly advocate water conservation, but he did not feel that the regulatory agencies would expect the water demand to remain at the 7 MGD level.

Mr. Barry Hartland stated that the proposed additions to the reservoir capacity that have been discussed at today's meeting do not seem sufficient to provide for the long-term growth of the community. He also stated that according to newspaper articles, our reservoir system provides us with about a 90-day supply of water without any rainfall, which he felt was an unreasonably small level of capacity. Dr. Collins suggested that he read the documents pertaining to the future water supply strategy.

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Mr. Hartland also commented on the lack of information that is available on the website concerning the water supply plan.

Mr. John Via expressed his concerns with the "Doomsday" plan in that the watershed area would only be increased by a very small amount. He stated that the only additional water source provided in the plan is Chris Greene Lake.

Mr. John Martin stated that he has been attending Board meetings for the last three to four years and has attended all the public meetings. He further stated that in the future he would like to see water in the Moormans River and have the river protected. He commented that the meeting today has been one of the most informative ones that he has attended, and he felt more confident that we are moving in the right direction. He added that some people might think that everything possible should be done to avoid periods of water conservation and water use restrictions. Mr. Martin commented that he felt it could not be done as it would be very expensive to build such a system. He also pointed out that the drought we are

experiencing is relatively rare and occurs once every thirty years, and he felt the current planning takes the drought cycle into proper consideration.

Upon a motion by Mr. O'Connell, and seconded by Mr. Tucker, the Board of Directors voted to approve the concurrent project strategy, for the four-foot crest controls, with the associated risks, as endorsed by the Executive Director, as part of the emergency water supply policy. By a 4 to 1 vote, with Dr. Collins voting against, the motion was approved.

Mr. O'Connell suggested that the Board hold future discussions concerning better ways to communicate the longer-term water supply plan to the public who are not able to attend the Board meetings.

As a follow-up to Mr. O'Connell's comments, Mrs. Mueller suggested that the document entitled "A Multi-Step, Integrated Water Supply Strategy" could be a helpful resource for the public by providing a detailed explanation on the history and the future water supply planning, after the document has been updated to reflect all the actions that were imposed during the current drought. She further requested that the document be placed on the website, to be followed up with a shorter, simplified version for distribution to the public. Mrs. Mueller also suggested that PowerPoint presentations on this subject be given to various community groups in order to get the information to the public.

Mr. Tucker suggested that the Executive Director and RWSA staff bring back some suggestions to the next Board meeting on how RWSA and the Board could improve communications with the public.

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Mr. Tropea responded that the revised water supply plan document would be brought back to the Board along with suggestions on public outreach activities. Mr. Tucker also suggested that the Citizens Advisory Committee be asked to provide input on this important communications issue.

Mr. Brent stated that the Albemarle County Service Authority staff has developed a list of frequently asked questions, and he offered to share that information with RWSA staff. He suggested that the questions, along with the prepared answers, be placed on the website or included in a customer mailing.

Mrs. Lois Rochester stated that she felt many people do not read lengthy documents on the website and suggested placing a special insert in *The Daily Progress* so that the information would be readily available to the public for easy reference.

In regards to Item 6c), Report on Upstream Water Withdrawals from the South Fork Rivanna Reservoir, Mr. Tropea reported that there are two known water withdrawals from Ivy Creek upstream of the South Fork Rivanna Reservoir made by two private golf clubs.

He stated that these organizations withdraw between 54.7 and 70 million gallons of water each year. He added that these water withdrawals are not large enough to require a formal DEQ water withdrawal permit, although they do report their water withdrawals to DEQ. Mr. Tropea stated that during the drought, at least one of the golf clubs was reportedly not actually withdrawing water, as they were irrigating from on-site ponds.

Mr. Tropea stated that RWSA is requesting the Board's perspective on how Rivanna should address these withdrawals during droughts. He added that this particular point was raised by a City Council member. Mr. Tropea advised the Councilor that the issue would be discussed at the next Board meeting.

Mr. Tropea stated that based on the Board's discussion on this issue, he would undertake discussions with both of the private golf clubs and report back at a future Board meeting. Mr. Bowler added that the larger golf facility has indicated a willingness to work out a voluntary agreement on curtailing water withdrawals during drought situations.

Dr. Collins suggested that the Watershed Manager consider tracking water withdrawals on an annual basis to assist in future water resource planning.

In regards to Item 6d), Proposed Wastewater Rate Increase, Mr. Tropea asked Mr. Wood to report on this matter.

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Rivanna Water and Sewer Authority
Wastewater Rate increase

Budgeted Flows:	*	3,970,835,000	A	Given
Reduce flow 40% to:	*	2,382,501,000	B	A * .6
Monthly Flows at 40%:	*	198,541,750	C	B/12
Remaining flows if Jan. 1 date	*	1,191,250,500	D	C * 6
Remaining flows if Feb. 1 date	*	992,708,750	E	C * 5

Rate needed for \$250,000:

Effective Jan. 1 **	0.2099	F	250,000/D * 1000
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Effective Feb. 1 **

0.2518 G 250,000/E *1000

* in gallons

** rate in dollars per 1000 gallons

Mr. Wood stated that at the last Board meeting, RWSA staff was instructed to bring to the October Board meeting a proposed wastewater rate increase to fund the 54-inch effluent line repair at Moores Creek. He further stated that the proposed rate increase was calculated based on the \$250,000 needed to make that repair and a 40 percent reduction of budgeted wastewater flows. He added that RWSA is proposing either a January 1, 2003 or February 1, 2003 effective date for enacting this rate increase.

Mrs. Mueller pointed out that on page 1 of the memo provided in the Board book concerning this proposed wastewater rate, the second bulleted item needs to be changed to reflect that “flows for wastewater are assumed to be at 60 % of budgeted flows” instead of “40% of budgeted flows.” She also stated that on page 2 of the memo, the third item should be changed from “Monthly Flows at 40%” to “Monthly Flows at 60%.”

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6.0 Other Business Cont.

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In response to questions from the Board, Mr. Wood responded that this proposed rate increase is in addition to the current wastewater rate and is a temporary rate increase for this fiscal year.

Upon a motion by Mr. Tucker, and seconded by Mr. Brent, the Board of Directors voted to approve the advertisement of the higher proposed wastewater rate increase of \$0.2518 per thousand gallons to be effective February 1, 2003 and that a public hearing be held at the regular Board of Directors meeting on January 27, 2003. By a 5 – 0 vote, the motion was approved.

7.0 Other Items From Board/Staff Not On Agenda

There were no other items from the Board or staff not on the Agenda.

8.0 Meeting Recess

Upon a motion by Mr. Tucker, and seconded by Mr. O’Connell, the Board of Directors voted to recess the RWSA meeting at this time and reconvene after the conclusion of the Rivanna Solid Waste Authority Board of Directors meeting, at which time they would enter into a joint closed meeting with the Rivanna Solid Waste Authority Board. By a vote of 5-0, the motion was approved.

9.0 Reconvene Meeting

Upon a motion by Mr. Tucker, and seconded by Mrs. Mueller, the Board of Directors voted to reconvene the RWSA Board of Directors meeting at 4:40 p.m. By a vote of 5-0, the motion was approved.

10.0 Closed Meeting

Upon a motion by Mr. Tucker, and seconded by Mr. O'Connell, the Board of Directors voted to enter into a joint closed meeting with the Rivanna Solid Waste Authority Board for matters pertaining to personnel issues as authorized by Section 2.1-344 (A) (1) of the Code of Virginia. By a 5-0 vote, the motion was approved.

Attendees: Mr. Brent, Dr. Collins, Mr. Graham of the Rivanna Solid Waste Authority Board, Mrs. Mueller, Mr. O'Connell, Mr. Tucker, Mr. Krueger, and Mr. Tropea (portion of session).

11.0 Resumption of Open Meeting

Upon a motion by Mr. Tucker, and seconded by Mr. O'Connell, the RWSA Board of Directors voted to approve termination of the Joint Closed Meeting and reconvened the open meeting. By a 5-0 vote, the motion was approved.

Mr. Tucker made the following motion, which was seconded by Mr. O'Connell:

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11.0 Resumption of Open Meeting Cont.

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“WHEREAS, the Rivanna Water & Sewer Authority has convened a special joint closed meeting with the Rivanna Solid Waste Authority Board on this date pursuant to an affirmative recorded vote and in accordance with the provisions of the Virginia Freedom of Information Act; and,

WHEREAS, Section 2.1-344.1 of the Code of Virginia requires a certification by the Rivanna Water & Sewer Authority Board of Directors that such closed meeting was conducted in conformity with Virginia law;

NOW, THEREFORE, BE IT RESOLVED that the Rivanna Water & Sewer Authority Board of Directors certify that, to the best of each member's knowledge, (i) only public business matters lawfully exempted from open meeting requirements by Virginia law were discussed in the closed meeting to which this certification resolution applies, and (ii) only such public business matters as were identified in the motion convening the closed meeting were heard, discussed or considered by the Rivanna Water & Sewer Authority Board of Directors.”

There being no further discussion, Dr. Collins, Chairman, called for a roll call vote:
Mrs. Mueller – Aye, Mr. O'Connell – Aye, Mr. Tucker – Aye, Mr. Brent – Aye,
and Dr. Collins – Aye.

12.0 Adjournment

Upon a motion by Mr. Brent, and seconded by Mrs. Mueller, the meeting was adjourned at

6:40 p.m.

Respectfully submitted,

Mr. Robert Tucker
Secretary - Treasurer