



MEMORANDUM

To: Board of Directors
From: Gary B. O'Connell, Executive Director
Date: June 30, 2010
Re: Swartz Water Demand Study- Scope
cc: James M. Bowling, IV

As requested, attached please find a copy of the scope of work for the water demand "review" that the RWSA is conducting. The report is to be available by Mid- August.

The Swartz firm has begun their work, initially collecting demand, population and land use information from the City, County, ACSA, and the University.

Let me know if you have any questions.

Attachment

GBO/anw
010101BoardMemoSwartzEng063010

WORK AUTHORIZATION NO. 1
CONTRACT DATED JUNE 10, 2010
BETWEEN
RIVANNA WATER AND SEWER AUTHORITY ("AUTHORITY")
AND
SWARTZ ENGINEERING ECONOMICS INC. ("ENGINEER")

**REVIEW OF 2004 WATER DEMAND STUDY AND MORE RECENT DATA ON WATER USE,
CONSERVATION PRACTICES, AND FUTURE DEVELOPMENT PLANNING AND
POTENTIAL**

Purpose

The purpose of this Work Authorization is to provide a review of the 2004 Water Demand Study by Gannett Fleming, a review of more recent information on water use, conservation practices, and development planning and potential, and offer a professional judgment on the reasonableness of the 2004 Study (in the context of what was known at the time) and an updated opinion of the likely range of future (50-year) water demand for the Urban Area of Charlottesville and Albemarle based on limited analysis that achieves the Authority's Board of Directors' objective of a completed review at a fee of \$25,000 or less.

Scope of Work

The Engineer shall furnish labor, materials, equipment, and technical and professional services required to perform the scope of work described or referenced below.

Task 1: Review of Documents

The Engineer shall review at least the following documents to be provided by the Authority:

- o Water Demand Study, Gannett Fleming, 2004
- o Spreadsheet with Supporting Calculations for 2004 Demand Study, Gannett Fleming
- o Water Demand Study, VHB, 1997
- o Historical Water Wholesale Demand Data (Treated Water to Distribution), Rivanna Water & Sewer Authority, January 1981 through May 2010
- o Rainfall Data, 2002- 2010, Rivanna Water & Sewer Authority
- o Retail Billing Data by Customer Class, Albemarle County Service Authority (ACSA), 2008-2010
- o Retail Billing Data by Customer Class, City of Charlottesville, ??-2010
- o Recent Water Rates and Charges Tables (Pricing Structures) for ACSA and City
- o Sanitary Sewer Dry Weather Flow Growth Projections for Comprehensive Sanitary Sewer Study, 2008 (Compiled by Greeley and Hansen using Future Land Use Projections by Albemarle County Community Development and City of Charlottesville Neighborhood Services.
- o Water Conservation Study, ACSA and City, 2009

Task 2: Meetings with County, City, University of Virginia

The Engineer shall interview the Albemarle County Department of Community Development, the City of Charlottesville Neighborhood Development Department, and the University of Virginia to obtain a comprehensive overview from these agencies with respect to the following issues:

- o Water Conservation Practices -- Historical, Current, and Planned
- o Water Pricing Structures -- Historical, Current, Planned
- o Water Loss -- Historical, Current, Planned
- o Planned or Anticipated Development to the extent available up to 50-year horizon
- o Economic Development Planning, Building Permit Data

Growth Plans

Build out to current zoning
 In addition, the Authority will arrange a teleconference briefing for the Engineer from Mr. William Ellis, the Attorney who guided the Authority through the 401 and 404 process for permits to expand the Ragged Mountain Reservoir. This will provide the Engineer information regarding legal or regulatory requirements and constraints in the development of the 2004 Water Demand Study as well as general legal issues that affected the permitting process.

Task 3: Data Evaluation and Report Preparation

The Engineer shall perform an evaluation of all relevant data collected from Tasks 1 and 2 and prepare a report to the Authority summarizing the findings of the evaluation. The evaluation shall address at a minimum the following questions:

- o In the context of what was known at the time, was the methodology and forecasting of the 2004 Water Demand Study reasonable and sound?
- o What major trends have developed between 2004 and 2010 that have significantly influenced wholesale water demands

- o What major trends can be reasonably anticipated over the next 50 years that could influence water demand or water supply planning. Include anticipated development trends, and issues such as future water conservation and climate change.
- o What is a likely range of potential future wholesale water demands for the Urban Area that the Authority should plan for in 50 years?

Services by Rivanna Solid Waste Authority

It is understood that certain services, as required, will be performed and/or furnished by Rivanna Water and Sewer Authority. These services may include the following:

1. Assist the Engineer by placing at their disposal all available information pertinent to the project, including previous reports, drawings and other relative data.
2. Review for consistency with the Authority's objectives all studies, reports, and other documents prepared by the Engineer.
3. Giving prompt written notice to the Engineer whenever the Authority observes or otherwise becomes aware of any problems or changed circumstances in the project.
4. Furnishing the Engineer in a timely manner with copies of pertinent correspondence relating to this project which would not have otherwise been delivered to the Engineer.
5. Furnishing legal advice from the Authority's counsel when legal interpretations are required related to the Scope of Work.

Insofar as any of the above services are necessary for the Engineer's performance of their obligations under this Agreement, the Authority shall be responsible for providing such services in a satisfactory and timely manner so as not to delay the Engineer in their performance thereof.

Project Schedule

Based on a Notice to Proceed of June 10, 2010, the Engineer shall complete all Tasks and deliver a draft report to the Authority by August 10, 2010. The Engineer will review the Authority's comments on the draft report, make appropriate revisions, and provide a final report within five business days following receipt of comments.

Compensation to Consultant

Compensation for all Work shall be a Fixed Fee of \$24,000.

Designation of Project Managers

The Authority's Project Manager for this project will be Thomas L. Frederick, P.E. The Engineer's representative (Project Manager) will be F. Stephen Swartz, P.E.

IN WITNESS WHEREOF, the parties hereto have caused their names to be set as of the day and year first above written.

Rivanna Water and Sewer Authority

Swartz Engineering Economics, Inc.

By: _____

By: _____

Name: Thomas L. Frederick, P.E.

Name: F. Stephen Swartz, P.E.

Title: Executive Director

Title: President

Date: _____

Date: _____

Attachment: Exhibit A. Proposal from Swartz Engineering Economics Inc. to Authority dated May 14, 2010



MEMORANDUM

To: Board of Directors
From: Gary B. O'Connell, Executive Director
Date: July 1, 2010
Re: Crozet Phase II Sewer Study (SSES)
Map of Area - Informational
cc: James M. Bowling, IV

Please find attached a copy of the area that will be included in the Crozet Phase II Sewer System Evaluation Study that we will be conducting. The ACSA Board approved this at the June meeting. A question came up about the exact location of the study area and I thought this map would be very helpful to the Board.

There are almost 116,000 linear feet of sewer line and over 650 manholes that will be studied.

GBO:dmg

050504SSESBoardMemo070110



MEMORANDUM

To: Board of Directors
From: Gary O'Connell, Executive Director
Date: July 1, 2010
Re: Water Supply Editorial in the Daily Progress
cc: James M. Bowling, IV

In case you didn't see, there was a very good editorial in the Daily Progress on the water supply debate, concluding: "The decision to raise the Ragged Mountain Dam was made by this community four years ago. Despite debate and investigation, no compelling reason has been advanced that is sufficient to overturn that choice."

GBO:dmg

060501RaggedMtn070110

OPINION

B2 | The Daily Progress

Debating water supply

Another 10 years from now, will we still be debating water supply? And will local residents be able to have the water they need at reasonable prices?

Actions of today will decide whether this community will have enough water tomorrow.

Critics of an adopted plan to raise the Ragged Mountain Dam to capture more water, then pump water from the South Fork Reservoir for processing and distribution, have long maintained that dredging the South Fork Reservoir would be a more economical answer to Charlottesville's and Albemarle's water needs.

So officials commissioned a study of dredging.

The study shows that dredging can be done — but that it would supply only about 13 percent of the water capacity that will be gained by raising the Ragged Mountain Dam.

Compare the cost of the dam, with its vastly greater utility, with the cost of dredging for only a 13 percent gain, and the answer clearly is that the dam project is the more economical overall, says the executive director of the Rivanna Water and Sewer Authority.

And still critics say dredging is better.

They hinge their argument on a couple of points.

For one, they point out that water use has been declining over the last several years.

Indeed, city and county residents have become more efficient users of water. Boosts in the price that local customers have to pay for water has cut some demand. Additionally, customers learned conservation techniques during a severe drought a few years ago.

But whether a 13 percent gain in supply is enough to carry this community for the next 50 years is highly debatable.

Albemarle County is prepping a new economic development plan, which is aimed at attracting and managing commercial growth. The county is refining and implementing residential development plans that funnel as much residential growth as possible into areas served by the public water supply. And even Charlottesville has just released a proposal that shows increases in housing density, as part of its redevelopment plan for public housing. All these developments will place greater demands on the water supply.

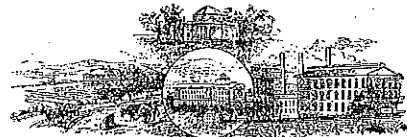
Critics also say the dredging vs. dam cost analysis does not take into account the price of the pipeline that must be built to link the Ragged Mountain Reservoir with infrastructure in place at the South Fork Reservoir.

Proponents say that critics aren't taking into account the cost of upgrading the pipeline from the Sugar Hollow Reservoir. As a water supply, Sugar Hollow would be taken off line upon completion of the Ragged Mountain project (environmentalists like this because it would return the river's flow to its natural state). But if it remains as a water source, its infrastructure also would have to be upgraded.

This debate reminds us of a computer programming exercise: The results are only as good as the data input. The two sides disagree on the input, so they disagree on the output — the conclusion.

Dredging supporters include some vocal and highly placed residents, so the investigation of dredging was pursued. But the results fail to impress.

The decision to raise the Ragged Mountain Dam was made by this community four years ago. Despite debate and investigation, no compelling reason has been advanced that is sufficient to overturn that choice.



Established 1892

The Daily Progress

LAWRENCE L. MCCONNELL, PUBLISHER

MCGREGOR MCCANCE, MANAGING EDITOR

ANITA SHELburne, EDITORIAL PAGE EDITOR



MEMORANDUM

To: Board of Directors
From: Gary B. O'Connell, Executive Director
Date: June 25, 2010
Re: Rivanna Station/NGIC Agreement
cc: Peter C. Gorham
James M. Bowling, IV

The question of what is the "Rivanna Station Agreement" came up at the June 17, 2010 Board meeting, and we were asked to follow up with a written report explaining the agreement.

As part of the closeout of the documents needed for the National Ground Intelligence Center (NGIC) Project, we need to complete an agreement (as usual practice, except the federal contract process has been very cumbersome). This includes a Utility Maintenance Agreement, and the easements for the water and sewer lines.

The Rivanna Station, as it is now known, includes the NGIC and the Joint Use Intelligence and Analysis Facility (JUJIAF).

The NGIC had never formally dedicated their water and sewer lines; therefore, requiring the need for this agreement and easement. Issues have arisen which have complicated an agreement, as the Federal Department of Defense "Federal Acquisition Regulations" require such an agreement for utility maintenance while the government representative pursues "privatization" of the lines. The agreement is unbelievably detailed and to this point, in the negotiations, we have struck over half of the language in the 50+ page document and attachments. Below are some other points on the Rivanna/NGIC/JUJIAF Agreement:

- Part of the agreement provides for "prepayment" of their calculated share of the North Fork Regional Pump Station Project. This project falls within the Special Rate District. As we offered to other

developments at the time, NGIC took up the offer to pursue payment now. The agreement provides for the cost and calculation of capacity for their share.

- Would still pay standard connection fees.
- Would be subject and referenced to ACSA Rules and Regulations and Rates (and future rate changes).
- Pages of details, many not applicable nor appropriate to ACSA.

There are no new policy implications in this agreement. The final agreement would be brought back to the ACSA Board for approval. Please let us know if you have any other questions.

Board Action

No Board action at this time.

GBO/dbh/dmg

030101RivannaStation-NGICAgreementBoardMemo062510



MEMORANDUM

To: Board of Directors
From: Gary B. O'Connell, Executive Director
Date: July 1, 2010
Re: Tour of Rivanna Projects for Future Scheduling
cc: James M. Bowling, IV

It has been suggested, by members of our Board, that we take a tour of several of the following Rivanna projects:

- Ragged Mountain Dam and Reservoir, and the site of the new proposed dam
- Moore's Creek Wastewater Treatment Plant Facility (\$50M upgrade)

I am waiting on specific dates from the Rivanna staff, but have suggested late July or early August as the preferred timeframe.

GBO:dmg

010205TourRWSAProjects070110



MEMORANDUM

To: Board of Directors
From: Gary B. O'Connell, Executive Director
Date: July 1, 2010
Re: Dredging Study Cost Allocation for Information
cc: James M. Bowling, IV

We were recently asked about the cost share for the recently completed Dredging Study conducted by Rivanna Water and Sewer Authority (RWSA). Attached is a detailed worksheet on the cost allocations as agreed to by the City of Charlottesville (City), Albemarle County Service Authority (ACSA) and RWSA. The City was to pay \$280,929.82 and the ACSA \$8,880 (see the attached invoice we have recently paid for our share). The ACSA share was for 100% of the cost for the first public meeting (through a renegotiation of the contract with HDR Consultants, some other costs were reduced that paid for the second public meeting).

It is my understanding that the ACSA has discussed being open to reconsidering to share in the costs of items in Phase I (Wetlands Assessment), and Phase II (Bathymetric Studies) "if the studies determined and everyone agreed to proceed in favor dredging." To date this has not occurred, although RWSA staff has recommended going forward on a request for proposal for dredging the upper stream (mostly sand) of the South Fork Reservoir. No action by the RWSA Board has been taken, although I expect this to come up as an agenda item in the next several months.

GBO/dbh

Attachments

060501DredgingStudyCostAllocationBoardMemo070110

Dredging Feasibility Study Cost Allocation
Based on Meeting with City and ACSA on January 22, 2010

Task	City %	City Amount	ACSA %	ACSA Amount	Funding Source
Task 1 Wetlands Assessment	54%	\$ 19,977.81	46%	\$ 9,189.79	RWSA Watershed Mgt Reserve ¹
Task 2a,b,c,e,f Bathymetric Survey	54%	50,373.00	46%	23,171.58	RWSA Watershed Mgt Reserve ¹
Task 2d Volume Analysis	100%	16,027.00	0%	-	Direct Bill to City
Task 3 Pre-Dredge Survey	100%	24,163.71	0%	-	Direct Bill to City
Task 4 Sediment Characterization	100%	27,399.00	0%	-	Direct Bill to City
Task 5 Reservoir Characterization Public Meeting ²	0%	8,880.00	100%	8,880.00	Direct Bill to ACSA
Task 6 Dredging Alternatives Analysis	100%	30,737.11	0%	-	Direct Bill to City
Task 7 Dewatering and Process Site Analysis	100%	138,915.00	0%	-	Direct Bill to City
Task 8 Beneficial Use Alternatives Evaluation	100%	24,932.00	0%	-	Direct Bill to City
Task 9 Dredging Analysis Public Meeting ²	100%	18,756.00	0%	-	Direct Bill to City
Task 10 Forebay Alternatives Evaluation	0%	-	0%	-	Direct Bill to City
Task 11 Summary Report	88%	8,548.62	12%	1,025.83	RWSA Watershed Mgt Reserve ¹
		\$ 368,709.25		\$ 42,267.21	
Deduct amounts to be paid from RWSA Watershed Mgt. Fund		\$ (10,788.02)		\$ (9,189.79)	
		\$ (27,201.42)		\$ (23,171.58)	
		\$ (7,522.79)		\$ (1,025.83)	
Total Due		\$ 280,929.82		\$ 8,880.00	

Handwritten notes and corrections:

- Handwritten "67,589.71" is written over the ACSA amount for Task 2d.
- Handwritten "213,340.11" is written over the City amount for Task 8.
- Handwritten "ACSA" is written above the ACSA amount for Task 5.
- Handwritten "\$ 8,880" is written next to the ACSA amount for Task 5.
- Handwritten "City" is written next to the City amount for Task 5.
- Handwritten "\$ 280,929.82" is written next to the Total Due City amount.
- Handwritten "ACSA" is written next to the Total Due ACSA amount.

Notes:

¹ For the tasks where the RWSA Watershed Mgt Reserve is listed as the funding source, RWSA will simply use the existing reserve funds to pay the actual costs to HDR. In the meeting on January 22, 2010, it was agreed to maintain the estimated percentages shown above on the spreadsheet, while recognizing that it will not exactly reflect how the City and ACSA paid into the fund several years ago through wholesale rates at that time.

² HDR's actual contract fee for Task 5 is \$12,785 and for Task 9 is \$14,851 for a total of \$27,636. The sum total of the two Tasks is the same above, but the spreadsheet was kept simple to show that ACSA has agreed to pay a lump sum of \$8,880 toward the first public meeting while the City pays the balance for both



MEMORANDUM

To: Board of Directors
From: Gary B. O'Connell, Executive Director
Date: July 1, 2010
Re: Oak Hill Sewer Funding Approved for Information
cc: James M. Bowling, IV

We have been notified that Albemarle County was approved for CDBG funding in the amount of \$712,500 for the Oak Hill Sewer Phase I Project. See the Governor's Press Release that is attached for the formal announcement.

Work has begun on the next steps by our staff in conjunction with the Albemarle County Planning/CDBG staff.

GBO:dmg
Attachment

050504OakHillFunding070110

From: Gary Whelan [mailto:gwhelan@serviceauthority.org]
Sent: Thursday, June 24, 2010 8:10 AM
To: 'Gorham, Pete'; 'Gary O'Connell'
Subject: FW: Governor McDonnell Announces More Than \$12 Million in Community Development Block Grant Funding

From: Ron White [mailto:rwhite2@albemarle.org]
Sent: Thursday, June 24, 2010 8:00 AM
To: Bob Tucker; Bryan Elliott; Gary Whelan
Cc: Lee Catlin
Subject: FW: Governor McDonnell Announces More Than \$12 Million in Community Development Block Grant Funding

You probably heard on the news but below is the press release.

From: Boehringer, Elizabeth (DHCD) [mailto:Elizabeth.Boehringer@dhcd.virginia.gov]
Sent: Wednesday, June 23, 2010 4:40 PM
To: Peggy Whitehead; Frank V. Pohl; Ron White; C J Dean; grants@spdc.state.va.us
Subject: FW: Governor McDonnell Announces More Than \$12 Million in Community Development Block Grant Funding

CONGRATULATIONS!

Elizabeth Boehringer

Ph: (804) 371-7065 Fax: (804) 371-7093

From: Sherrill, Keith (DHCD)
Sent: Wednesday, June 23, 2010 4:38 PM
To: Alonzo, Kizmet (DHCD); Belo, Brad (DHCD); Boehringer, Elizabeth (DHCD); Brierre, Louise (DHCD); Chapman, Ramona (DHCD); Ellis, Douglas (DHCD); Fitzgerald, Matt (DHCD); Harris, Marie (DHCD); Johnson, Keira (DHCD); Jones, Michelle (DHCD); Jones, Sylvia (DHCD); Marr-Shears, Roxanne (DHCD); Miles, Cheri (DHCD); Munyan, Traci (DHCD); Peerman, Joanne (DHCD); Spradlin, Monica (DHCD)
Subject: FW: Governor McDonnell Announces More Than \$12 Million in Community Development Block Grant Funding

From: Governors Update Mailing List [mailto:govupdate@governor.virginia.gov]
Sent: Wednesday, June 23, 2010 4:20 PM
To: GovernorsUpdate mailing list
Subject: Governor McDonnell Announces More Than \$12 Million in Community Development Block Grant Funding



Commonwealth of Virginia
Office of Governor Bob McDonnell

FOR IMMEDIATE RELEASE

June 23, 2010

Office of the Governor

Contact: Stacey Johnson

Phone: (804) 225-4260

E-mail: Stacey.Johnson@Governor.Virginia.Gov

Virginia Department of Housing and Community Development

Contact: Hollie S. Cammarasana

Phone: (804) 371-7006

E-mail: Hollie.Cammarasana@dhcd.virginia.gov

Governor McDonnell Announces More Than \$12 Million in Community Development Block Grant Funding

– More than 5,100 Virginians will benefit from improved medical services, housing, water and wastewater treatment, as well as improved educational opportunities and downtown revitalization –

RICHMOND – Governor Bob McDonnell today announced more than \$12 million in Community Development Block Grant (CDBG) funding for 24 projects in Virginia. The grants, awarded through a competitive application process, will provide funding for community and economic development projects such as downtown and economic revitalization, broadband deployment, healthcare, and improved housing and wastewater treatment.

“The Community Development Block Grant program has long provided funding for projects improving the quality of life for thousands of Virginians each year,” said Governor McDonnell. “Through these grants more than 5,100 individuals will see improved housing conditions, access to medical care and educational opportunities – and more Virginia communities will see revitalization and creation of jobs.”

From the 24 approved projects, 15 focus on improved housing and wastewater treatment, six are focused on downtown and economic revitalization, while others focus on improved access to education and training, broadband connectivity and the renovation of an existing facility in Nelson County that will provide services to 3,000 individuals annually –

2,400 of whom will be low-to-moderate income.

“Through these funds several Virginia localities will receive aid in the revitalization of their central business districts,” said McDonnell. “Façade and streetscape improvements will address blighting conditions. Paired with the small business loan pool made available through these grants they will help revitalize the economies of these communities and bring new jobs, tourists, and events to the area.”

Since 1982, the federally-funded CDBG program has been administered by the Virginia Department of Housing and Community Development (DHCD), and Virginia receives up to \$21 million annually for this “small cities” grant program. CDBG grants are awarded through a competitive process. Most projects benefit low- and moderate-income individuals, and many projects are targeted for the prevention or elimination of blighting conditions.

Several projects are noted as either Multi-Year or Letter-of-Intent projects. Multi-year projects are those that receive a contract allocating a portion of the funds this year and, after achieving specific performance targets, are eligible for additional funding. Letter-of-Intent projects are those which will be awarded after the locality meets specific targets.

“Our goal is to create better communities in which to live, work and do business in Virginia,” said DHCD Director Bill Shelton. “Through CDBG funds, we have the tools in place to address housing, economic development, health, safety and other unique needs of each community.”

2010 CDBG Competitive Grant Awards:

Locality	Project Name	CDBG Award
Albemarle, County of:	Oak Hill Phase I Sewer Project	\$712,500
Alberta, Town of	Samford Street Housing Improvement Project <i>Multi-Year Funding</i>	\$1,000,000
Boydton, Town of	Hull Street Housing Improvement Project <i>Multi-Year Funding</i>	\$1,000,000
Buchanan, County of	Hurley Regional Water Project, Phase II <i>Letter of Intent</i>	\$1,000,000
Clinchco, Town of	Clinchco Housing Rehabilitation, Downtown Service Area Phase III	\$594,000
Dickenson, County of	Nora Decentralized Sewer Project	\$200,000
Fries, Town of	Fries Downtown Revitalization Project	\$1,000,000
Greensville, County of	Southside Virginia Education Center, Phase III-A	\$700,000
Gretna, Town of	East Gretna Neighborhood Project	\$997,400
Haysi, Town of	Haysi Downtown Revitalization Project <i>Phased Implementation</i>	\$999,128
James City, County of	Forest Heights Neighborhood Improvement Project <i>Multi-Year Funding</i>	\$1,400,000
King George, County of	Angel Court <i>Letter of Intent</i>	\$680,000
Lawrenceville, Town of	Lawrenceville Downtown Revitalization Project <i>Phased Implementation</i>	\$738,700
Martinsville, City of	Uptown Martinsville Business District Revitalization	\$691,325

Nelson, County of	Blue Ridge Medical Center Expansion Project	\$700,000
Northumberland, County of	Light Street Housing Project <i>Multi-Year Funding</i>	\$634,836
Pocahontas, Town of	Pocahontas Historic Downtown Revitalization Project <i>Phased Implementation</i>	\$1,000,000
Pulaski, County of	Baskerville Neighborhood Rehabilitation Project <i>Multi-Year Funding</i>	\$1,000,000
Russell, County of	Long Branch/Strouth Creek/Fuller Mountain <i>Letter of Intent</i>	\$700,000
Surry, County of	Surry Broadband Implementation Project, Phase I	\$700,000
Saltville, Town of	East Main Street Housing Rehabilitation Project	\$646,750
Wise, County of	Wise Inn Restoration and Redevelopment <i>Letter of Intent</i>	\$700,000
Wytheville, Town of	Jefferson Union	\$500,000

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