

CLAYTON COUNTY WATER AUTHORITY

1600 Battle Creek Road
Morrow, Georgia 30260

Regular Board Meeting December 5, 2002

Chairman McQueen called the meeting to order at 1:30 p.m.

Present at the meeting were: Chairman, Pete McQueen, Vice Chairman, Lloyd Joiner, Secretary/Treasurer, Lindy Rogers, Board Members, Wesley E. Greene, Sr., Marie Barber, J. Alan Horton and Robbie Moore, Jr., General Manager, M. Wade Brannan, Deputy Manager, Terry R. Hicks, Department Managers, Frank Conort, Neal Wellons/Jim Poff, Dennis Hammock, Herbert Etheridge, Jr., Richard Calhoun/Teresa Adams, Guy Pihera and Mike Thomas, Executive Secretary, Patricia Groover/Janet Matthews, Assistant Manager of Administration, Scott Bailey, Project Manager, Mike Buffington, Contract & Procurement Administrator, Karen Riser, Compensation & Benefits Coordinator, Michelle Mirzaiee, Distribution & Resource Coordinator, Jeff Brandon, Assistant to Maintenance & Construction Department Manager, Richard Randolph and Assistant Supervisor Customer Service, Wendy Watson. Also present were: Steve Fincher, Fincher & Hecht, L.L.C., Rick Hirsekorn, of CH2M Hill, Chris and Farrar Wood, of Jim Wood & Associates Public Relations, Visitors, Pat Melton and Gordon Marshall, of Insituform Technologies, Inc.

Chairman McQueen called on Wendy Watson, Assistant Supervisor Customer Service, to give the invocation.

Chairman McQueen called for any omissions or additions to the minutes of the regular and executive board meeting on November 7, 2002, hearing none these minutes stand approved as presented.

Financial and Statistical Report: Chairman McQueen called on Frank Conort, Manager of Administration, who presented the monthly financial and statistical report. This report was received for information.

Employee Recognition: Chairman McQueen called on Terry Hicks, Deputy Manager, who introduced Richard Randolph, Assistant to the Maintenance & Construction Department Manager. Mr. Hicks gave information concerning Mr. Randolph's work history with the Authority and presented Mr. Randolph with a 20-year service/tenure pin. Chairman McQueen stated that on behalf of the Board that he would like to thank Mr. Randolph for his years of service to the Authority.

Chairman McQueen called on Wade Brannan, General Manager who introduced three replacement employees for the positions of Executive Secretary, Manager of Water Reclamation and Manager of General Services. Mr. Brannan introduced Janet Matthews, who is the Authority's new Executive Secretary and stated that in his opinion that Ms.

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Matthews would be an asset to this position. Mr. Brannan called on Richard Calhoun who introduced Teresa Adams his replacement as Manager of General Services and stated that in his opinion that Ms. Adams will be a tremendous asset to the Authority. Mr. Calhoun called on Ms. Adams who gave the Board information concerning her education, work history and qualifications and stated that she is excited to be working for the Authority. Mr. Brannan introduced Jim Poff, who is replacing Mr. Wellons as Manager of Water Reclamation. Mr. Brannan gave information concerning Mr. Poff's work history with the Authority and qualifications for this position. Mr. Brannan stated that he would like to thank Mr. Ed Durham, Human Resources Director and his staff for recruiting the caliber of employees that are now being placed in positions within the Authority. Chairman McQueen stated that on behalf of the board that he would like to welcome these employees to the Authority and wish them well in these positions.

Chairman McQueen called on Robbie Moore, Board Member, who gave special recognition to Neal Wellons, Manager of Water Reclamation. Mr. Moore presented Mr. Wellons with a gift and read a proclamation written in honor of Mr. Wellons' retirement. Chairman McQueen stated that he has never met anyone more qualified and dedicated to the Authority than Mr. Wellons. Chairman McQueen stated that, on behalf of this Board and all previous Boards that Mr. Wellons has worked with, his years of dedicated service to the Authority is greatly appreciated. Mr. Wellons stated that he has enjoyed his many years with the Authority and thanked all the Board Members for their support.

Ground Water Program Update: Chairman McQueen called on Guy Pihera, Manager of Water Production, who introduced Jeff Brandon, Distribution & Resource Coordinator in the Water Production Department. Mr. Pihera stated that one of Mr. Brandon's work duties for the Authority is coordinating and overseeing the groundwater program. Mr. Pihera gave the Board an informational slide presentation and discussed the following Groundwater Program Update information that was distributed to the Board. There was discussion with questions that Mr. Pihera answered and gave additional information.

GROUNDWATER PROGRAM UPDATE

August 2001 – Board approved concept of exploration and development of one million gallons per day (mgd) of groundwater.

November 2001 – Board approved contracts: \$101,900 to Middle Georgia Wells for drilling services and \$100,800 to Crawford Consulting for geologic services.

Evaluation of CCWA and Clayton County properties resulted in potentially favorable sites at Hooper Reservoir, Smith Plant, Blalock Dam, Jackson Plant and Northeast Plant.

Seven test wells were drilled to an average depth of 600 feet based on site geology. Four of the test wells yielded potential volumes and quality worthy of further

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development. Three of these wells have been reamed (expanded) for greater yield. Estimated yields are listed below.

- Hooper Reservoir 2A – 250 gallons per minute (gpm)
- Hooper Reservoir 2B – 250 gpm
- Jackson Plant – 250 gpm
- Blalock Dam – 150 gpm

These four sites promise a potential yield of 1.3 mgd.

Next Steps:

- 72 hour yield and quality testing
- Treatment chemical facility installation
- Distribution system piping modifications
- Test site exploration at Northeast Plant

Cost Analysis:

Contract in 2002 Budget

Middle Georgia Wells (\$101,900 contract)

- \$59,324 expended to date
- \$30,000 (anticipated expense), aquifer yield testing
- \$12,576 anticipated surplus

Funds Approved in 2002A Budget (\$500,000)

- Middle Georgia Wells, \$1600 (non contract services) expended
- Crawford Consulting, \$100,800 (anticipated expense), actual will be based on firm yield from wells
- \$60,000 (anticipated expense), equipment and power
- \$120,000 (anticipated expense), chemical treatment facilities
- \$104,000 (anticipated expense), distribution piping
- \$113,600 anticipated surplus, this will be utilized to begin the process of locating/drilling additional test wells.

Chairman McQueen called on Guy Pihera, Manager of Water Production, to update the Board on the status of the Authority's water production and raw water reserve. Mr. Pihera discussed the information shown on the Water Supply Weekly Update for December 2, 2002, that was distributed to the Board. Mr. Pihera stated that the Authority's raw water reserve is in excellent condition at 99% capacity. There was discussion with questions concerning any changes to the State mandated water restriction. Mr. Pihera and Mr. Brannan answered questions and gave additional information.

Backflow Program Materials Bids: Chairman McQueen called on Herbert Etheridge, Manager of Maintenance & Construction, who presented information for the Board's consideration concerning materials needed for the Authority's backflow meter program. Mr. Etheridge stated that the Board previously approved the contractor to install the Authority's backflow materials and that the Authority has now advertised and

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received bids for nonresidential backflow materials. Mr. Etheridge stated that it is the recommendation of the Authority's staff to accept the low bid from Delta Municipal Supply Company pending acceptance by the Georgia Environmental Facilities Authority. There was discussion concerning this information.

Clayton County Water Authority
 Backflow Materials
 Tab Sheet
November 2002

VENDOR	PROPOSAL
Lawrenceville Winnelson P.O. Box 1539 Lawrenceville, GA 30046	No Bid
Lanier Municipal Supply GA Highway 64 Lakeland, GA 31635	No Bid
U. S. Filter 2111 Moon Station Kennesaw, Ga 30144	\$309,480.00
Ferguson Underground 5475 Technology Parkway Braselton, GA 30517	\$346,862.65
Premier Utilities and Services, Inc. 5850 Jacaranda Drive Mableton, GA 30059	\$305,100.00
Delta Municipal Supply Company 855 Marathon Parkway Lawrenceville, GA 30045	\$302,750.00
Frankie Thompson Enterprises, Inc. P.O. Box 960702 Riverdale, GA 30296	\$499,819.00
F.M. Shelton, Inc. 972 Donnelly Ave, SW Suite 2 Atlanta, GA 30310-3330	\$430,383.00
Engineered Process Equipment, Inc. P.O. Box 52345 Atlanta, GA 30355	\$221,947.50 (Only includes 2 of the 3 bid items)
Trinity Steel Group, Inc. 4051 Highway 78 Atlanta, GA 30047	No Bid

Staff recommends that the low bidder, Delta Municipal Supply Company, be awarded this contract pending acceptance by the Georgia Environmental Facilities Authority.

Upon Motion by Lloyd Joiner and seconded by Alan Horton it was unanimously

RESOLVED: to accept the bid from Delta Municipal Supply Company to supply the Authority nonresidential backflow materials for the low bid price of three hundred two thousand seven hundred fifty dollars (\$302,750), contingent upon approval by Georgia Environmental Facilities Authority.

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Conley Creek Outfall Improvements: Chairman McQueen called on Herbert Etheridge, Manager of Maintenance & Construction, who gave an informational slide presentation on the Conley Creek Rehabilitation Project. Mr. Etheridge's presentation included the following: Conley Creek Project, Cured In Place Technology and Projected CIP Costs information that was distributed to the Board. Mr. Etheridge stated that he is asking the Board to approve two hundred thirty three thousand eight hundred twenty one dollars and eight cents (\$233,821.08) for the Conley Creek rehabilitation project to install 4,857' of cured in place pipe repair material using our existing contractor Insituform Technologies, Inc. There was discussion concerning this information with questions. Mr. Etheridge introduced Pat Melton and Gordon Marshall of Insituform Technology, who answered questions and gave additional information.

CONLEY CREEK PROJECT OVERVIEW

- Inspection performed by "Southeast Pipe Survey" from August 2001-October 2001.
- 35,460' of sanitary sewer pipe ranging in size from 8" to 27" diameter was inspected using closed circuit televising.
- CCWA staff reviewed the taped and made repair recommendations based upon visual confirmation of inflow, infiltration, structural defects, root intrusion, and illegal connections.

CURED IN PLACE TECHNOLOGY

- Cured in Place (CIP) Repairs are used to completely remove inflow and infiltration, root intrusion, and correct structural defects.
- Repairs are made without excavation or land disturbing activities. No street, driveway, yard or landscape work needed.

250' PIPE REPLACEMENT IN CENTER OF ROADWAY

Average cost for traditional 8" pipe replacement: \$100 per foot

Average cost for 8" CIP repair: \$ 35 per foot

Traditional cost =\$25,000

CIP cost = \$8,750

Average savings of \$65 per foot for complete replacement

PROJECTED CIP COSTS CONLEY CREEK REHABILITATION

Pipe Diameter	Footage	Avg. \$ per foot	Projected Cost
8"	235'	35.49	\$8,340.15
10"	1,655'	36.5	\$60,407.5
12"	307'	39.49	\$12,123.43
15"	2,660'	57.5	\$152,950.0
TOTALS:	4,857'		\$233,821.08

Funding Source: 2001 Bond Series

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Upon Motion by Lindy Rogers and seconded by Marie Barber it was unanimously

RESOLVED: to approve two hundred thirty three thousand eight hundred twenty one dollars and eight cents (\$233,821.08) for Insituform Technologies, Inc. to install 4,857' of cured in place pipe repair material on the Conley Creek Rehabilitation project.

Design of Solids Dewatering Facilities Task Order Amendment: Chairman McQueen called on Mike Buffington, who gave an informational slide presentation and discussed the Amendment to Design of Solids Dewatering Facilities Shoal Creek WRF, Northeast WRF, Freeman Road WPP and J. W. Smith WPP Task Order information that was given to the Board. Mr. Buffington stated that it is his recommendation that the Board approve the proposed amended Task Order amount of seventy nine thousand one hundred forty nine dollars (\$79,149).

**AMENDMENT TO
DESIGN OF SOLIDS DEWATERING FACILITIES
SHOAL CREEK WRF, NORTHEAST WRF, FREEMAN
ROAD WPP AND J. W. SMITH WPP**

The project includes services of CH2M Hill for schematic design, design development, detailed design, preparation of construction documents and bid phase of solids dewatering facilities for the biosolids generated by the Shoal Creek WRF and the Northeast WRF, and alum residuals generated by the J. W. Smith WPP and the Freeman Road WPP.

The solids dewatering project originally included temporary construction for sludge thickening at Northeast WRF with permanent thickening and sludge storage to be completed under Northeast Upgrade and Expansion project, currently in the preliminary design and permitting stage. The permanent sludge thickening and storage structure has been located and this proposed amendment moves design and construction of permanent sludge thickening from the Northeast expansion project to the solids dewatering project. Total design cost for the two projects will not change, but savings will be realized by eliminating temporary construction and providing easier construction sequencing and fewer operation problems during construction.

Project Managers:

- CH2M Hill, Engineers – Jim Hawley
- Clayton County Water Authority – Mike Buffington

Original Task Order Amount: \$ 890,000

Proposed Amendment Amount: \$ 79,149

Revised Task Order Amount: \$ 969,149

Funding: The project is funded by the Series 2001 Bond Issue.

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Upon Motion by Lindy Rogers and seconded by Lloyd Joiner it was unanimously

RESOLVED: that the proposed amended Task Order amount of seventy nine thousand one hundred forty nine dollars (\$79,149) for the Design of Solids Dewatering Shoal Creek WRF, Northeast WRF, Freeman Road WPP and J. W. Smith WPP be approved.

Repainting Barnett Road & Hooper WPP Tanks Summary: Chairman McQueen called on Mike Buffington, who gave an informational slide presentation summary and discussed the following: Repainting Barnett Road and Hooper WPP Tanks information.

REPAINTING BARNETT ROAD AND HOOPER WPP TANKS

The existing 0.50 MG capacity Barnett Road elevated tank, located on Barnett Road near the intersection of Barnett Road and Old Dixie Road in Forest Park, was acquired as a part of the Forest Park system. The tank was lowered in 2000 to match the overflow elevation of CCWA elevated tanks. The existing 0.50 MG capacity Hooper ground storage tank is located at the W. J. Hooper WPP. This project includes cleaning and recoating the interior and exterior of the Barnett Road elevated tank and the interior only of the Hooper WPP ground storage tank.

The project was awarded to Tank Pro, Inc., Northport, Alabama. The Hooper ground storage tank has been repainted and returned to service. With the exception of minor punch list items, the Barnett Road tank is complete and ready to be returned to service.

Project Manager: Clayton County Water Authority – Mike Buffington

CCWA Estimated Project Cost: \$165,000

Contract Amount: \$133,105

Final Cost: \$135,905 (Includes change order of \$2,800 to replace interior ladder)

Funding: Water Production Operations Budget

Summary of Shoal Creek Force Main Phase 2 Construction: Chairman McQueen called on Mike Thomas, Manager of Program Management and Engineering, who gave an informational slide presentation summary of the Shoal Creek Force Main Project and discussed the following information that was distributed to the Board. There was discussion concerning this information.

SHOAL CREEK FORCE MAIN – PHASE 2 Project Summary – December 2002

This project involved the construction of a 24 inch ductile iron force main to carry the discharge from the Inman Road wetlands to the Shoal Creek Reservoir. This pipeline is 16,690 feet long and included a concrete discharge structure at the discharge point to

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the reservoir to re-aerate the reclaimed water. This is the final infrastructure improvement needed to put the new Shoal Creek Water Reclamation Facilities into operation – the new plant and force main from the plant to the wetlands are completed and the Inman Road wetlands are under construction. This project was funded by the 2000 Bond Series.

<u>Cost Analysis</u>	<u>Estimate</u>	<u>Actual</u>
Materials	\$575,000	\$569,603.70
Labor & miscellaneous materials	\$340,000	\$178,830.50
TOTAL	\$915,000	\$748,434.20

Summary of CH2M Hill Casey/Huie NPDES Permitting Task Order:
 Chairman McQueen called on Mike Thomas, Manager of Program Management and Engineering, who gave an informational slide presentation summary of Casey WRF/Huie Wetlands NPDES Permitting Task Order and discussed the following information that was distributed to the Board. Mr. Thomas stated that he is pleased that the Authority has received the Casey and Huie NPDES permits. There was discussion concerning this information. Chairman McQueen on behalf of the Board along with Mr. Brannan stated that they would like to thank the Authority employees and CH2M Hill for their efforts to obtain these NPDES permits.

CASEY WRF / HUIE WETLANDS NPDES PERMITTING Task Order Summary

TASK ORDER BO-00-01 – Casey/Huie NPDES Permitting

Obtaining an NPDES permit for a direct surface water discharge requires extensive environmental and cultural resources inventories and evaluations, water quality modeling and public hearings. The permit for the new Casey WRF and Huie wetlands is unique because it involves several facilities and the combination of wetlands and land application. A new NPDES permit was required for the discharge from the wetlands and the Land Application System (LAS) permit was modified to account for the reduction in spray irrigation acreage and application amounts. The final permit configuration after several phases of wetlands construction are complete calls for 15 mgd of capacity through the constructed wetlands and 9 mgd of capacity on the remaining land application site.

We began work on this permit with CH2M Hill staff in January of 2001. After the submission and review of several reports, a public meeting and a 30 day public notice; the final permit was issued in November 2002. Only one comment was received by EPD during the public notice; a minor issue from the U.S. Fish & Wildlife Service. CCWA staff worked hard to insure that EPD and all effected stakeholders were communicated with and understood our plans to minimize any technical issues or public concerns. We invited all adjacent landowners to a public meeting to explain the project and met with over 200 Lake Jackson homeowners to describe the project and determine if they had any objections.

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TASK ORDER BUDGET **\$244,400**

ACTUAL COSTS **\$208,008**

Actual expenditures were less than the budgeted amount because of assistance of CCWA staff throughout the process and the lack of public or technical issues to be resolved.

Greater Saint Peter A.M.E. Sewer Request: Chairman McQueen called on Wade Brannan, General Manager, who gave the Board information concerning a request from Greater Saint Peter A.M.E. Church, for the Authority to provide the church with sewer service. Mr. Brannan showed on a map the location of the church, which is on 54 Highway close to Mundy's Mill High School. Mr. Brannan stated that the Board of Education installed a lift station, in cooperation with the Authority, which was needed in order to provide sewer service to Mundy's Mill High School and now the church has requested that the Board of Education allow them to tie into the Mundy's Mill High School lift station. Mr. Brannan stated that the Board of Education requested that the Authority look at this lift station to be sure that it has the capacity to allow the church to tie into the lift station and that it is the opinion of the Authority that the lift station can handle the sewer capacity of both the church and the school. Mr. Brannan stated that it is his recommendation that the Authority work with the Board of Education in order to help make this sewer tie-in possible for the church. Mr. Brannan stated that the Board of Education would probably request that the Authority take over the maintenance of the lift station which means that the church would have to pay to the Authority approximately twenty one thousand dollars (\$21,000) for maintenance and impact fees. There was discussion concerning this information.

Upon Motion by Lindy Rogers and seconded by Wes Greene it was unanimously

RESOLVED: that the Authority is authorized to coordinate with the Board of Education and the Greater Saint Peter A.M.E. Church to insure that the Greater Saint Peter A.M.E. Church is allowed to tie into the Board of Education's sewer lift station located at Mundy's Mill High School.

There was discussion concerning future development in the area of 54 Highway and Mundy's Mill Road and the Authority's plans to provide additional sewer service to this area.

Chairman McQueen stated that he would entertain a motion for the Board to go into executive session to consult with legal counsel.

Upon Motion by Marie Barber and seconded by Wes Greene it was unanimously

RESOLVED: that the Board adjourns into executive session, the Board reserved the right to return to the open session.

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Chairman McQueen called the regular Board meeting back into open session.

Mr. Brannan stated that after the Authority's rate adjustment was approved at the last meeting there was discussion concerning the Authority's out-of-county customers not being charged a higher water and sewer rate than the in-county customers. Mr. Brannan stated that it is his recommendation that the Authority charge out-of-county customers the same water and sewer rate of the county where the customer resides or the Authority's water and sewer rate whichever is higher. There was discussion concerning this information.

Upon Motion by Lindy Rogers and seconded by Marie Barber it was unanimously

RESOLVED: that the Authority is authorized to charge out-of-county customers the same water and sewer rates of the county where the customer resides or the Authority's water and sewer rates whichever is higher.

Mr. Brannan gave the Board information concerning surplus blowers with motors that the Authority previously tried to dispose of by sealed bid with no results. Mr. Brannan stated that the Authority now has a quote for three thousand dollars (\$3,000) for the purchase of these surplus blowers with motors. Mr. Brannan stated that these blowers and motors are no longer of any use to the Authority and that it is his recommendation that the Authority accept this offer and sell this surplus equipment. There was discussion concerning this information with the Board recommending that the Authority accept the offer of three thousand dollars for the surplus blowers and motors.

Mr. Brannan gave the Board information concerning the Authority's increasing industrial surcharge rate. Mr. Brannan stated that it was the decision of the Board that the industrial surcharge rate would be set each year using the latest Authority financial report and that he would like to make the Board aware that the Authority will have a slight surcharge rate increase in January 2003.

Mr. Brannan gave the Board information concerning sewer backups in Authority customers' homes. Mr. Brannan stated that currently it is the Authority's policy to pay the cost of damages to these homes, which in some cases has escalated into a considerable amount, when the sewer backup is caused by a problem in the Authority's main sewer line. Mr. Brannan stated that he would like to have guidance from the Board concerning whether the Authority should continue paying the cost of sewer backup damages to the Authority's customers homes. Mr. Fincher, legal counsel for the Authority, stated that the Authority is not legally liable for damages caused by sewer backups in customer's homes unless the Authority had prior knowledge that there was a problem in the main sewer line. There was discussion concerning this information and the request by Mr. Brannan for guidance in this matter. It was the Board's decision that the Authority continue to pay the costs, within reason, of sewer backup damage to

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customer's homes when the sewer backup is caused by a problem in the Authority's main sewer line. It was also the decision of the Board that Management be responsible for making the final decision concerning the Authority paying these costs and what amount, within reason, should be paid for these damages.

Mr. Brannan gave the Board information concerning the possibility of the Authority implementing the use of purchase cards for specified employees. Mr. Brannan stated that specified Authority employees would use purchase cards in order to simplify the purchase of needed materials. Mr. Brannan stated that the Authority would acquire the purchase cards through Bank of America and that the purchase cards would specify the vendors where purchases can be made and have a purchase amount cap. Mr. Brannan stated that he is asking the Board to authorize the Authority to implement the use of purchase cards. There was discussion concerning this information.

Upon Motion by Wes Greene and seconded by Lindy Rogers it was unanimously

RESOLVED: that the Authority is authorized to implement the use of purchase cards to be used by specified Authority employees.

Mr. Brannan gave the Board information concerning Fresh Express' plans to expand their facility. Mr. Brannan stated that the expansion of Fresh Express would require the use of an additional 2.5 million gallons per month of the Authority's finished water. Mr. Brannan gave the Board information concerning the original water and sewer use impact fees that Fresh Express paid to the Authority. Mr. Brannan requested guidance from the Board concerning whether the Authority should require Fresh Express to pay an additional water and sewer impact fee. Mr. Brannan stated that the additional water and sewer use impact fee would be approximately four hundred sixty thousand dollars (\$460,000). There was a Board discussion concerning this information. There was a Board decision that the Authority would not require Fresh Express to pay an additional impact fee.

Mr. Brannan distributed information concerning the Authority's planned bond issue program schedule. Mr. Brannan stated that in January 2003 the Board would be asked to authorize proceeding with the bond program. There was discussion concerning this information.

Mr. Brannan gave the Board information concerning insurance issues pertaining to the Authority.

There was discussion concerning limiting Authority personnel travel.

Mr. Brannan invited the Board to attend the retirement lunch for Neal Wellons, Richard Calhoun and Patricia Groover on Wednesday, January 8, 2003 from 11:30 a.m. to 1:30 p.m. at the Authority's Shamrock/Blalock Community Use Building.

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Mr. Brannan reminded the Board that the January 2003 board meeting date was changed to Thursday, January 9, 2003.

There being no further business to come before the open meeting the meeting was adjourned.

Pete McQueen, Chairman

H. Lindy Rogers, Secretary/Treasurer