CLAYTON COUNTY WATER AUTHORITY

1600 Battle Creek Road
Morrow, Georgia 30260

Regular Board Meeting, March 6, 2008

Chairman, Pete 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, Marie Barber, and Board Members, John Westervelt, John Chafin and Doug Bonner. General Manager, P. Michael Thomas, Deputy Manager, Mike Bennett, Department Managers, Guy Pihera, Herbert Etheridge, Teresa Adams, Jim Poff and Terry Moy, Project Engineer, Mike Buffington, Finance Director, Emory McHugh, MIS Director, Rodney Crowell, Stormwater Program Manager, Kevin Osbey, Risk Manager, Karen Riser, Customer Accounts Director, Brian Robinson, Human Resources Director, Ed Durham, Public Information Officer, Suzanne Brown, and Executive Secretary, Janet Matthews. Also present were: Steve Fincher of Fincher, Denmark & Williams, Jay Kirk from CH2M Hill, Kalanos Johnson of Delon Hampton & Associates, and the following employees: Brent Taylor, Marshall Maddox and Terry Hicks. Board member, Wes Greene, was not present.

Chairman McQueen called on Brent Taylor, Lead Mechanic from General Services, to give the invocation.

Election of Officers: Chairman McQueen opened the floor for nominations for Election of Officers for the Clayton County Water Authority.

Board member, John Chafin, stated that he would like to propose to re-elect the same slate of officers: Pete McQueen, Chairman, Lloyd Joiner, Vice Chairman, and Marie Barber, Secretary/Treasurer.

UPON Motion by John Chafin and seconded by John Westervelt it was unanimously

RESOLVED: to re-elect Pete McQueen, Chairman, Lloyd Joiner, Vice Chairman, and Marie Barber, Secretary/Treasurer.

Approval of Minutes: Chairman McQueen called for any omissions or additions to the Regular and Executive Session Board Meeting minutes of Thursday, February 7, 2008. Hearing none, the minutes were approved as presented.

Financial and Statistical Report: Chairman McQueen called on Emory McHugh, Finance Director, to give our financial report. Mr. McHugh reviewed the financial

information that was given to the Board for the nine-month period ending January 31, 2008.

Hooper Water Line Replacement Phase 5 Summary: Chairman McQueen called on Herbert Etheridge, Manager of Maintenance & Construction.

Over the past several years, CCWA has replaced approximately 43,500' of the Hooper 16" Steel Watermain with 24" Ductile Iron Pipe, as recommended by CH2M Hill in the 2000 Master Plan and Hydraulic Distribution Model. This watermain, originally installed in the mid fifties, originates at the Hooper Water Production Plant and delivers treated water to the Morrow Pump Station. Phases 1-4 were completed from the Hooper Water Production Plant to SR 42 near I-675. Phase 5 (final phase) consisted of replacing approximately 3,000' of 16" steel watermain with 16" Ductile Iron Watermain. The project extends along SR 42 from Evans Dr to Lake Harbin Rd. The initial estimate for completion of this main was approximately $400,000.00. Due to the expense of acquiring easements, the final estimate for this project was $424,050.73. This project was completed at a final cost of $405,123.34 ($18,927.39 under the final estimated cost).

In total (Phases 1-5), the replacement of 46,437' of 16" steel watermain was completed at a cost of $4,465,754.54 ($96.17 per foot).

ADS Sewer Metering Contract Renewal: Mr. Etheridge continued with the ADS Sewer Metering Contract Renewal.

The CCWA has been under contract with ADS for several years for the provision of flow monitoring and data analysis for the collection of data related to billing of wastewater fees. This data is collected at sites where the CCWA receives wastewater from and/or transports wastewater to neighboring jurisdictions. For billing accuracy, we employ the services of this 3rd party consultant for these services.

This contract renewal will be for twelve (12) months, beginning on May 1, 2008. The meter that was added in 2006 for the Yorktown area of College Park will be billed on a monthly basis to the City of College Park by the CCWA. The 2007 Contract also includes monthly billing for the recently installed Ellenwood Villages Meter to measure flows into DeKalb County, and a two thousand dollar ($2,000.00) fee for annual support/updates of software used by the CCWA to view data on-line through ADS.

It is our recommendation that we contract with ADS Environmental Services for a twelve (12) month period from May 1, 2008 through April 30, 2009 for the monitoring, equipment servicing, and data reporting services for nine (9) wastewater metering stations. The per-unit monthly fee is unchanged from the last contract; however, we are

adding the additional unit at Ellenwood Villages. The contract amount will not exceed seventy-two thousand two hundred dollars ($72,200.00) of which the CCWA portion will be sixty-four thousand four hundred dollars ($64,400.00) net after billing the City of College Park.

UPON Motion by Marie Barber and seconded by John Westervelt it was unanimously

RESOLVED: to approve the contract with ADS Environmental Services for a twelve (12) month period from May 1, 2008 through April 30, 2009 for the monitoring, equipment servicing, and data reporting services for nine (9) wastewater metering stations in the not-to-exceed amount of seventy-two thousand two hundred dollars ($72,200.00) of which the CCWA portion will be sixty-four thousand four hundred dollars ($64,400.00) net after billing the City of College Park, contingent upon approval of bonds and insurance as required by the specifications and to authorize the General Manager to sign the contract documents.

Overhead Lifts for the Garage Request for Proposal: Chairman McQueen called on Teresa Adams, Manager of General Services. Ms. Adams presented the bids for purchase of two (2) overhead lifts for the fleet service garage.

Vendor	Price	Final Ranking
Automotive Equipment Specialists Group, Inc. Jonesboro, GA	$21,551.43	1
Reliable Hydraulics, Inc. Smyrna, GA	$30,189.00	2
A & M Automotive Equipment Company, Inc. Gainesville, GA	No Proposal Submitted	N/A
Atlantic Hydraulics, Inc. Atlanta, GA	No Proposal Submitted	N/A

Staff recommends this contract be awarded to Automotive Equipment Specialists Group, Inc. If Automotive Equipment Specialists Group, Inc. does not meet all of the Authority's contractual requirements, staff recommends this contract be awarded to Reliable Hydraulics, Inc.

Funding Source: 2007 Capital Budgeted Item $45,000.00

UPON Motion by John Chafin and seconded by Lloyd Joiner it was unanimously

RESOLVED: to award the Overhead Lifts contract to Automotive Equipment Specialists Group, Incorporated in the amount of twenty-one thousand five hundred fifty-one dollars and forty-three cents ($21,551.43), contingent upon approval of bonds and insurance as required by the specifications and to authorize the General Manager to sign the contract documents.

Mounted Crane & Service Body Bid Recommendation: Ms. Adams continued with the Mounted Crane & Service Body Bid Recommendation.

Vendor	Price
Omaha Standard-Atlanta Forest Park, GA	$27,704.00
Interstate Truck Equipment, Inc. College, GA	$28,875.00
Ranew's Truck & Equipment Milner, GA	$32,911.50

Staff recommends this contract be awarded to Omaha Standard-Atlanta.

If Omaha Standard-Atlanta does not meet all of the Authority's contractual requirements, staff recommends this contract be awarded to Interstate Truck Equipment, Inc.

Funding Source: 2007 Operating Funds

UPON Motion by John Chafin and seconded by Marie Barber it was unanimously

RESOLVED: to award the Mounted Crane & Service Body contract to Omaha Standard-Atlanta in the amount of twenty-seven thousand seven hundred four dollars ($27,704.00), contingent upon approval of bonds and insurance as required by the specifications and to authorize the General Manager to sign the contract documents.

Annual Chemical & Filter Media Bids: Chairman McQueen called on Guy Pihera, Manager of Water Production.

Bids for treatment Chemicals and Filter Media were opened on February 19, 2008. The following 7 pages are a compilation of the bids.

You will find a comparison page showing estimated costs for FY 2007 and 2008 based on current and expected chemical pricing. Also included is bid tabulation showing individual pricing from bidders.

Staff recommends awarding to the low bid price vendor shaded in grey with the following exemptions:

- Sulfuric Acid 75% - one bid received at 7 times the current market price
- Fluorosilic Acid 23% - one bid received at 2 times current market price

For these two chemicals staff will solicit bids and purchase approximately 2 loads during a one (1) year period.

These chemicals are utilized in both the water production and water reclamation process.

We anticipate spending an estimated $1,800,000 for treatment chemicals in FY2008. This represents a 23% increase over FY2007.

Submitted by: Guy Pihera, Manager of Water Production
Jim Poff, Manager of Water Reclamation

TREATMENT CHEMICAL BID RESULTS
COMPARISON of FISCAL YEAR 2007 and 2008

		FY 2007			FY 2008		
Chemical	**Annual Quantity Used (Est.)**	**Low Bidder**	**Low Bid $/Unit**	**Annual Cost**	**Low Bidder**	**Low Bid $/Unit**	**Annual Cost**
Aluminum Sulfate	1,600 dry tons	General Chemical	221.90 ton	$355,040	General Chemical	265.00 ton	$424,000
Dense Soda Ash	20 tons	Industrial Chemical	.18 lb	7,200	Univar	0.186 lb	7,440
Hydrated Lime	210 tons	Cheney Lime	122.83 ton	25,794	Cheney Lime	130.65 ton	27,436
Chlorine	35 tons	Brentag	468.00 ton	16,380	Allied Universal	474.80 ton	16,618
Liquid Lime	850,000 lbs.	Burnett Lime	0.045 lb	38,250	Burnett Lime	0.0475 lb	40,375
PAC bag	3,000 lbs.	Prominent	0.58 lb	1,740	Univar	0.70 lb	2,100
PAC super sac	10,000 lbs.	Prominent	0.58 lb	5,800	Industrial Chemical	0.88 lb	8,800
Sodium Silica Fluoride	60,000 lbs.	Harcros	.35 lb	21,000	Univar	0.385 lb	23,100
Fluorosilic Acid 23%	14,000 gal.	LCI, Ltd	1.8181 gal	25,453	LCI, Ltd.	3.03 gal	42,420
Potassium Permanganate	5,000 lbs.	Chemrite	2.07 lb	10,350	Chemrite	2.10 lb	10,500
Copper Sulfate	50,000 lbs.	Industrial Chemical	1.50 lb	75,000	Chemrite	1.92 lb	96,000
Sodium Chlorite Liquid 30% (tote)	36 totes	Inter Dioxide	1,540.00 tote	55,440	Industrial Chemical	1575.00 tote	56,700
Ortho Phosphate 36% PO4*	24,000 gal.	Carus	1.55 gal	37,200	Pristine	3.35 gal	80,400
Hydrogen Peroxide 50% 3,200 lb. tote	26 totes	Industrial Chemical	0.3172 lb	26,391	Industrial Chemical	0.27 lb	22,464
Sodium Hydroxide 50% 3,782 lb. tote	10 totes	Industrial Chemical	0.15 lb	5,673	Harcross	0.1975 lb	7,469
Sodium Hypochlorite 12.5% bulk	270,000 gal.	Allied Universal	.608 gal	164,160	Allied Universal	0.649 gal	175,230
Caustic Soda 20%	3,000,000 lbs.	Basic Chemical	0.0469 lb	140,700	Basic Chemical	0.711 gal 0.0697 lb	209,100
Polymer, Fort Bend FBS-CR4983	120,000 lbs.	Fort Bend	1.02 lb	122,400	Fort Bend	1.00l b	120,000
Solar Salt	1,200,000 lbs.	Univar	0.0608 lb	72,960	Cargill	0.0643 lb	77,160
Ferric Sulfate Liquid	400,000 lbs.	Kemira	.79 lb	316,000	Kemira	1.86 gal 1.075 lb	430,000
Total Annual Chemical Costs (estimated)				**$1,522,931.00**			**$1,877,312.00**

Costs reflect an estimated annual increase of 23%

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WATER AND WASTEWATER CHEMICALS
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TREATMENT CHEMICALS	QTY	PKG SIZE	International Dioxide	Sterling Water Technologies	Kemira	Carus
Liquid Aluminum Sulfate* (price per dry ton)	1,600 dry tons	4,000 gal. tanker				
Dense Soda Ash* (price per pound)	20 tons	50 lb. bag				
Bulk Hydrated Lime* (price per pound)	210 tons	18 ton tanker				
Chlorine* (price per cylinder)	35 tons	1 ton cylinder				
Liquid Lime* (price per pound) 30% Calcium H+A34ydroxide	850,000 lbs.	Bulk tanker, no size limit				
Powdered Activated Carbon* (price per pound)	3,000 lbs.	50 lb. bag				
Powdered Activated Carbon* (price per pound)	10,000 lbs.	1,000 lb. sack, 5 sack min.				
Sodium Silica Fluoride* (price per pound)	60,000 lbs.	50 lb. bag				
Fluorosilic Acid 23% * (price per gallon)	14,000 gal.	4,000 gal. tanker				
Potassium Permanganate F/F* (price per pound)	5,000 lbs.	55 lb. drum				
Copper Sulfate Med. Crystal* (price per pound)	50,000 lbs.	50 lb. bag				
Sodium Chlorite Liquid 30% (tote)* (price per tote)	36 totes	275 gal. tote	2142.55			
Ortho Phosphate 36% PO4* (price per gallon)	24,000 gal.	4,000 gal. tanker		3.67		3.71 gal/.36 lb.
Hydrogen Peroxide 50% (price per pound)	3,200 lb. tote	26 totes				
Sodium Hydroxide 50% (price per pound)	3,782 lb. tote	10 totes				
Sodium Hypochlorite 12.5% solution (price per gallon)	6 drums	55 gallon drum				
Sodium Hypochlorite 12.5% solution* (price per gallon)	270,000 gal.	Bulk tanker, no size limit				
Caustic Soda 20% (price as cost per gallon and cost per pound)	3,000,000 lbs.	Bulk tanker, no size limit	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.
Polymer, Ashland Praestol #K144L (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.				
Polymer, Fort Bend FBS-CR4983 (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.				
Sulfuric Acid (78%)* (price per gallon)	1,600 gal.	Bulk tanker				
Solar Salt (>99.5% NaCl) (price per pound)	1,200,000 lbs.	Bulk tanker, no size limit				
Ferric Sulfate Liquid (price as cost per pound of iron (EE) and cost per delivered gallon)	400,000 lbs.	Bulk tanker, no size limit	/ gal. / lb.	/ gal. / lb.	1.86/gal. 1.075/ lb.	/ gal. / lb.

*Chemicals must be NSF60 certified for drinking water applications

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TREATMENT CHEMICALS	QTY	PKG SIZE	Cheney Lime & Cement	Ashland	Geo Specialty Chemical	Fort Bend
Liquid Aluminum Sulfate* (price per dry ton)	1,600 dry tons	4,000 gal. tanker			349.08	
Dense Soda Ash* (price per pound)	20 tons	50 lb. bag				
Bulk Hydrated Lime* (price per pound)	210 tons	18 ton tanker	130.65/ton			
Chlorine* (price per cylinder)	35 tons	1 ton cylinder				
Liquid Lime* (price per pound) 30% Calcium H+A34ydroxide	850,000 lbs.	Bulk tanker, no size limit				
Powdered Activated Carbon* (price per pound)	3,000 lbs.	50 lb. bag				
Powdered Activated Carbon* (price per pound)	10,000 lbs.	1,000 lb. sack, 5 sack min.				
Sodium Silica Fluoride* (price per pound)	60,000 lbs.	50 lb. bag				
Fluorosilic Acid 23% * (price per gallon)	14,000 gal.	4,000 gal. tanker				
Potassium Permanganate F/F* (price per pound)	5,000 lbs.	55 lb. drum				
Copper Sulfate Med. Crystal* (price per pound)	50,000 lbs.	50 lb. bag				
Sodium Chlorite Liquid 30% (tote)* (price per tote)	36 totes	275 gal. tote				
Ortho Phosphate 36% PO4* (price per gallon)	24,000 gal.	4,000 gal. tanker				
Hydrogen Peroxide 50% (price per pound)	3,200 lb. tote	26 totes				
Sodium Hydroxide 50% (price per pound)	3,782 lb. tote	10 totes				
Sodium Hypochlorite 12.5% solution (price per gallon)	6 drums	55 gallon drum				
Sodium Hypochlorite 12.5% solution* (price per gallon)	270,000 gal.	Bulk tanker, no size limit				
Caustic Soda 20% (price as cost per gallon and cost per pound)	3,000,000 lbs.	Bulk tanker, no size limit	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.
Polymer, Ashland Praestol #K144L (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.		1.03		
Polymer, Fort Bend FBS-CR4983 (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.				1.00
Sulfuric Acid (78%)* (price per gallon)	1,600 gal.	Bulk tanker				
Solar Salt (>99.5% NaCl) (price per pound)	1,200,000 lbs.	Bulk tanker, no size limit				
Ferric Sulfate Liquid (price as cost per pound of iron (EE) and cost per delivered gallon)	400,000 lbs.	Bulk tanker, no size limit	/ gal. / lb.	/ gal. / lb.		/ gal. / lb.

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TREATMENT CHEMICALS	QTY	PKG SIZE	Siemens	Allied Universal	General Chemical	Southern Lime	Burnett Lime
Liquid Aluminum Sulfate* (price per dry ton)	1,600 dry tons	4,000 gal. tanker			265.00		
Dense Soda Ash* (price per pound)	20 tons	50 lb. bag					
Bulk Hydrated Lime* (price per pound)	210 tons	18 ton tanker				0.07787	
Chlorine* (price per cylinder)	35 tons	1 ton cylinder		474.80			
Liquid Lime* (price per pound) 30% Calcium H+A34 Hydroxide	850,000 lbs.	Bulk tanker, no size limit					0.0475
Powdered Activated Carbon* (price per pound)	3,000 lbs.	50 lb. bag					
Powdered Activated Carbon* (price per pound)	10,000 lbs.	1,000 lb. sack, 5 sack min.					
Sodium Silica Fluoride* (price per pound)	60,000 lbs.	50 lb. bag					
Fluorosilic Acid 23% * (price per gallon)	14,000 gal.	4,000 gal. tanker					
Potassium Permanganate F/F* (price per pound)	5,000 lbs.	55 lb. drum					
Copper Sulfate Med. Crystal* (price per pound)	50,000 lbs.	50 lb. bag					
Sodium Chlorite Liquid 30% (tote)* (price per tote)	36 totes	275 gal. tote	25% 2128.95 +5 -5 2356.25 (330.001 tote)				
Ortho Phosphate 36% PO4* (price per gallon)	24,000 gal.	4,000 gal. tanker					
Hydrogen Peroxide 50% (price per pound)	3,200 lb. tote	26 totes					
Sodium Hydroxide 50% (price per pound)	3,782 lb. tote	10 totes					
Sodium Hypochlorite 12.5% solution (price per gallon)	6 drums	55 gallon drum					
Sodium Hypochlorite 12.5% solution* (price per gallon)	270,000 gal.	Bulk tanker, no size limit		0.649			
Caustic Soda 20% (price as cost per gallon and cost per pound)	3,000,000 lbs.	Bulk tanker, no size limit	/ gal. / lb.	0.809 /gal. 0.79	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.
Polymer, Ashland Praestol #K144L (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.					
Polymer, Fort Bend FBS-CR4983 (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.					
Sulfuric Acid (78%)* (price per gallon)	1,600 gal.	Bulk tanker					
Solar Salt (>99.5% NaCl) (price per pound)	1,200,000 lbs.	Bulk tanker, no size limit					
Ferric Sulfate Liquid (price as cost per pound of iron (EE) and cost per delivered gallon)	400,000 lbs.	Bulk tanker, no size limit	/ gal. / lb.	/ gal. / lb.	4.80/ gal. 2.00 / lb.		/ gal. / lb.

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TREATMENT CHEMICALS	QTY	PKG SIZE	E&C Chemicals	LCI, Ltd.	Carmeuse	Basic Chemical	Industrial Chemicals
Liquid Aluminum Sulfate* (price per dry ton)	1,600 dry tons	4,000 gal. tanker					
Dense Soda Ash* (price per pound)	20 tons	50 lb. bag					0.1925
Bulk Hydrated Lime* (price per pound)	210 tons	18 ton tanker			0.08518		
Chlorine* (price per cylinder)	35 tons	1 ton cylinder					600.00
Liquid Lime* (price per pound) 30% Calcium H+A34ydroxide	850,000 lbs.	Bulk tanker, no size limit					
Powdered Activated Carbon* (price per pound)	3,000 lbs.	50 lb. bag					0.85
Powdered Activated Carbon* (price per pound)	10,000 lbs.	1,000 lb. sack, 5 sack min.					0.88*
Sodium Silica Fluoride* (price per pound)	60,000 lbs.	50 lb. bag					0.415
Fluorosilic Acid 23% * (price per gallon)	14,000 gal.	4,000 gal. tanker		3.03**			
Potassium Permanganate F/F* (price per pound)	5,000 lbs.	55 lb. drum					2.75
Copper Sulfate Med. Crystal* (price per pound)	50,000 lbs.	50 lb. bag					3.15
Sodium Chlorite Liquid 30% (tote)* (price per tote)	36 totes	275 gal. tote					1575.00
Ortho Phosphate 36% PO4* (price per gallon)	24,000 gal.	4,000 gal. tanker					
Hydrogen Peroxide 50% (price per pound)	3,200 lb. tote	26 totes					0.27
Sodium Hydroxide 50% (price per pound)	3,782 lb. tote	10 totes	.23 lb				0.28
Sodium Hypochlorite 12.5% solution (price per gallon)	6 drums	55 gallon drum	1.95				1.75
Sodium Hypochlorite 12.5% solution* (price per gallon)	270,000 gal.	Bulk tanker, no size limit	0.96			0.84	0.85
Caustic Soda 20% (price as cost per gallon and cost per pound)	3,000,000 lbs.	Bulk tanker, no size limit	.92 / gal. .091 / lb.	/ gal. / lb.	/ gal. / lb.	0.711 / gal. 0.0697 / lb.	/ gal. / lb.
Polymer, Ashland Praestol #K144L (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.					
Polymer, Fort Bend FBS-CR4983 (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.					
Sulfuric Acid (78%)* (price per gallon)	1,600 gal.	Bulk tanker					10.68**
Solar Salt (>99.5% NaCl) (price per pound)	1,200,000 lbs.	Bulk tanker, no size limit					
Ferric Sulfate Liquid (price as cost per pound of iron (EE) and cost per delivered gallon)	400,000 lbs.	Bulk tanker, no size limit	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.		/ gal. / lb.

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**Bid not accepted due to higher than current market price, we will purchase by quotes.

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TREATMENT CHEMICALS	QTY	PKG SIZE	Brenntag Mid South	C&S	Cargill	Pristine	Harcros
Liquid Aluminum Sulfate* (price per dry ton)	1,600 dry tons	4,000 gal. tanker		325.00			
Dense Soda Ash* (price per pound)	20 tons	50 lb. bag	0.2056				0.1975
Bulk Hydrated Lime* (price per pound)	210 tons	18 ton tanker					
Chlorine* (price per cylinder)	35 tons	1 ton cylinder	528.00				
Liquid Lime* (price per pound) 30% Calcium H+A34ydroxide	850,000 lbs.	Bulk tanker, no size limit					
Powdered Activated Carbon* (price per pound)	3,000 lbs.	50 lb. bag					
Powdered Activated Carbon* (price per pound)	10,000 lbs.	1,000 lb. sack, 5 sack min.					
Sodium Silica Fluoride* (price per pound)	60,000 lbs.	50 lb. bag					0.3975
Fluorosilic Acid 23% * (price per gallon)	14,000 gal.	4,000 gal. tanker					
Potassium Permanganate F/F* (price per pound)	5,000 lbs.	55 lb. drum					2.25
Copper Sulfate Med. Crystal* (price per pound)	50,000 lbs.	50 lb. bag					
Sodium Chlorite Liquid 30% (tote)* (price per tote)	36 totes	275 gal. tote					
Ortho Phosphate 36% PO4* (price per gallon)	24,000 gal.	4,000 gal. tanker				3.35	
Hydrogen Peroxide 50% (price per pound)	3,200 lb. tote	26 totes					
Sodium Hydroxide 50% (price per pound)	3,782 lb. tote	10 totes					0.1975
Sodium Hypochlorite 12.5% solution (price per gallon)	6 drums	55 gallon drum					1.35
Sodium Hypochlorite 12.5% solution* (price per gallon)	270,000 gal.	Bulk tanker, no size limit	0.82				0.70
Caustic Soda 20% (price as cost per gallon and cost per pound)	3,000,000 lbs.	Bulk tanker, no size limit	/ gal. .0925 / lb.	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.
Polymer, Ashland Praestol #K144L (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.					
Polymer, Fort Bend FBS-CR4983 (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.					
Sulfuric Acid (78%)* (price per gallon)	1,600 gal.	Bulk tanker					
Solar Salt (>99.5% NaCl) (price per pound)	1,200,000 lbs.	Bulk tanker, no size limit			0.0643		
Ferric Sulfate Liquid (price as cost per pound of iron (EE) and cost per delivered gallon)	400,000 lbs.	Bulk tanker, no size limit	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.		/ gal. / lb.

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TREATMENT CHEMICALS	QTY	PKG SIZE	CIBA	Shannon Chemical	DPC Enterprises	Chemrite	Univar USA
Liquid Aluminum Sulfate* (price per dry ton)	1,600 dry tons	4,000 gal. tanker					
Dense Soda Ash* (price per pound)	20 tons	50 lb. bag					0.186
Bulk Hydrated Lime* (price per pound)	210 tons	18 ton tanker					
Chlorine* (price per cylinder)	35 tons	1 ton cylinder			525.00		
Liquid Lime* (price per pound) 30% Calcium H+A34 Hydroxide	850,000 lbs.	Bulk tanker, no size limit					
Powdered Activated Carbon* (price per pound)	3,000 lbs.	50 lb. bag					0.70
Powdered Activated Carbon* (price per pound)	10,000 lbs.	1,000 lb. sack, 5 sack min.					
Sodium Silica Fluoride* (price per pound)	60,000 lbs.	50 lb. bag					0.385
Fluorosilic Acid 23% * (price per gallon)	14,000 gal.	4,000 gal. tanker					
Potassium Permanganate F/F* (price per pound)	5,000 lbs.	55 lb. drum				2.10	2.38
Copper Sulfate Med. Crystal* (price per pound)	50,000 lbs.	50 lb. bag				1.92	
Sodium Chlorite Liquid 30% (tote)* (price per tote)	36 totes	275 gal. tote					
Ortho Phosphate 36% PO4* (price per gallon)	24,000 gal.	4,000 gal. tanker		7.75			4.37
Hydrogen Peroxide 50% (price per pound)	3,200 lb. tote	26 totes					0.295
Sodium Hydroxide 50% (price per pound)	3,782 lb. tote	10 totes					
Sodium Hypochlorite 12.5% solution (price per gallon)	6 drums	55 gallon drum					1.24
Sodium Hypochlorite 12.5% solution* (price per gallon)	270,000 gal.	Bulk tanker, no size limit			0.74		0.70
Caustic Soda 20% (price as cost per gallon and cost per pound)	3,000,000 lbs.	Bulk tanker, no size limit	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.	/ gal. / lb.	/ gal. 0.0825 / lb.
Polymer, Ashland Praestol #K144L (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.	0.99**			1.38	1.219
Polymer, Fort Bend FBS-CR4983 (price per pound)	120,000 lbs.	Bulk tanker, 4,000 gal.				1.44	
Sulfuric Acid (78%)* (price per gallon)	1,600 gal.	Bulk tanker					
Solar Salt (>99.5% NaCl) (price per pound)	1,200,000 lbs.	Bulk tanker, no size limit					0.073
Ferric Sulfate Liquid (price as cost per pound of iron (EE) and cost per delivered gallon)	400,000 lbs.	Bulk tanker, no size limit	/ gal. / lb.	/ lb.	/ gal. / lb.		/ gal. / lb.

*Chemicals must be NSF60 certified for drinking applications.
**Did not meet specifications.

UPON Motion by Lloyd Joiner and seconded by Marie Barber it was unanimously

RESOLVED: to award to the low bid price vendor shaded in grey for Chemicals and Filter Media for FY2008 with the following exemptions:

- Sulfuric Acid 75%
- Fluorosilic Acid 23%

For these two chemicals we will solicit bids and purchase approximately 2 loads during a one (1) year period. Staff anticipates spending an estimated $1,800,000 for treatment chemicals in FY2008.

Hicks Generator Relocation Bid: Mr. Pihera continued with the Hicks Generator Relocation Bid.

BIDDER	TOTAL BID AMOUNT
Ranger Mechanical Covington GA	**$152,000**
Player and Company Atlanta GA	**$172,420**
Cleveland Electric Austell GA	**$192,622**

CCWA Staff recommends awarding contract to Ranger Mechanical. If Ranger Mechanical does not meet all of the Authority's contractual requirements, staff recommends this contract be awarded to Player & Company.
Budgeted: $170,000 Funding: FY 2007 R&E

General Information: A generator capable of powering the entire Hicks Plant is being moved from the Northeast Water Reclamation Plant. After a plant renovation project, the existing generator at Northeast did not have enough capacity to power the upgraded Northeast Plant.

UPON Motion by John Westervelt and seconded by Lloyd Joiner it was unanimously

RESOLVED: to approve Staff's recommendation to award the Hicks Generator Relocation Installation contract to Ranger Mechanical in the amount of one hundred fifty-two thousand dollars ($152,000), contingent upon approval of bonds and insurance as required by the specifications and to authorize the General Manager to sign the contract documents.

CH2M Hill Task Order RE-08-02, 2008 Services During Construction: Chairman McQueen called on Mike Buffington, Program Management Engineer.

TASK ORDER SUMMARY
PROGRAM MANAGEMENT AND SERVICES
DURING CONSTRUCTION – FISCAL YEAR 2008
TASK ORDER NO. RE-08-02

Includes program management and services during construction provided by CH2M Hill during Fiscal Year 2008 (May 1, 2008 through April 30, 2009). Services provided include general program management; and construction management and inspection for Huie Phase 4 (Part 2) Constructed Wetlands, Camp Creek Stream Restoration, and miscellaneous Tank Painting projects.

Services include construction management and administration; document management; site coordination; preparation of as-built documents; project controls; field inspection; shop drawing and samples review and approval; monthly pay request approval; design clarifications; and closeout of the completed construction projects.

Project Managers:
CH2M Hill, Engineers – Chris Cranmer
Clayton County Water Authority – Mike Buffington

Task Order Summary:
Task Order Amount – $650,000
Time and Materials (not to exceed amount)

Funding:
R&E Funds

TASK ORDER RE-08-02

This is an attachment to the AGREEMENT between CH2M HILL ("ENGINEER") and CLAYTON COUNTY WATER AUTHORITY ("OWNER"), for the project generally described as *Fiscal Year 2008 Program Management Services and Services During Construction for CCWA's, Huie PH 4 Constructed Wetlands Site "A"(Part 2), Northeast WRF Expansion and Upgrade Project, Elevated Tank Coatings, and Camp Creek Stream Restoration Project.*

ARTICLE 1 — SCOPE OF SERVICES

Program Management

The scope of services for this portion of the Task Order is for fiscal year 2008 (May 1, 2008 through April 30, 2009). It continues to provide program management assistance

and implementation of the Program's fully integrated Project Control System (PCS) that combines scope, schedule, budget, actual, and forecast data for each of the Program's projects into one database. The PCS will implement processes and procedures that successfully drive program and project-critical activities to completion. The PCS includes planning, scheduling, cost control, and funds management, as well as the application of work processes such as the project accounting system, cost/schedule progress reporting procedures, and corrective action management.

This portion of the task order is a continuation of the scope of the existing Task Order BO-05-04 that ended on April 30, 2008 and was for Program Management Services for Fiscal Year 2007.

The scope of services for fiscal year 2008 includes:

1. Planning and Program Assistance
2. Scheduling
3. Estimating
4. Cost Control
5. Funds Management
6. Reporting
7. Baseline Change Control Management

Task 1 – Planning And Program Assistance

The ENGINEER will continue to develop a project control plan for each project during the project planning phase. The level of success of each project is closely related to early project planning. The ENGINEER uses the Work Breakdown Structure (WBS) process, a planning tool that provides a formal structure to identify all products and relate all work efforts. The appropriate level of detail for the WBS is dependent upon size, complexity, risk, and schedule constraints. All elements of scope must correlate to a WBS element, thus preventing any scope from being omitted in the planning process. Once completed and combined with the coding structure in the accounting system, the WBS provides a cross-walk from scope definition to the accounting system to allow proper charging of actual costs for each scope of work (SOW). All WBS elements will summarize to the higher level WBS identified in the SOW.

Task 2 – Scheduling

The ENGINEER will create all schedules using the Critical Path Method (CPM), developed using Primavera Project Planner (P3), and will include network logic, and will be controlled and monitored by team members. The keys to scheduling include: direct integration with the previously-identified WBS, resource loading to assist with funding needs and budget "what-if" exercises, identification of any milestones or deliverables, logical depiction of work processes, and regular updates to assess project performance. The focus on scheduling events and performance provides project team members with information detailing resource and time balancing, cost trade-off relationships, and delivery of committed milestones.

Task 3 – Estimating
The ENGINEER will develop cost estimates at a predetermined level of the WBS. Elements of cost to be estimated include, but are not limited to: direct labor, materials, equipment, travel and expenses, and subcontracts. All applicable approved direct rates will be applied and the cost estimate will be loaded into the schedule to fully integrate scope, schedule, and budget by WBS element. This framework will support earned value reporting.
By integrating these elements, the schedule database will include the SOW, period of performance to accomplish that scope, and estimate to accomplish that scope. With this fully integrated system, the budget is time-phased over the schedule duration. When the schedule activities are updated, cost and schedule variances can be identified to assist in managing the project.
Task 4 – Cost Control
This task will provide the ability to control costs which is predicated on timely issue identification and the quality of the corrective management actions taken. The ENGINEER's project control tools provide a foundation of real-time cost and schedule information from which experienced project managers can forecast future results by applying various management action scenarios.
WBS responsibility assignments are issued to discipline leads who are held accountable for the scope, schedule, and budget for their assigned activity(s).
The ENGINEER maintains cost control via a process that combines the following critical elements: scoping, planning, scheduling, estimating, costs capture, accurate cost and performance reporting, cost and performance projections, and proactive task and project management.
The ENGINEER's cost control process includes the following elements:

- Accurately identifying all project SOW components
- Planning project activities for efficient execution
- Provides a basis for staffing and resource identification
- Establishes a cost and schedule baseline for each task
- Tracks cost, schedule and productivity performance against the established baseline
- Continually adjusts the baseline to reflect approved changes
- Documents and tracks committed costs
- Provides an audit of subcontract costs
- Produces management reports reflecting project status
- Forecasts costs at completion based on project historical productivity
- Evaluates performance data to determine alternative management action
- Determines the Cost Performance Index (CPI) and Schedule Performance Index (SPI)

- Identifies Budgeted Cost of Work Scheduled (BCWS), Budgeted Cost of Work Performed (BCWP), Actual Cost Work Performed (ACWP), and Estimate at Complete (EAC), values that are all critical to assessing a projects' performance

Task 5 – Funds Management

The ENGINEER will monitor the amount of available funds per task order, a key component of the PCS. Because receipt of notification to proceed on a task order may not come with total funding, the PCS assists in the management of actual cost incurred to date, and provides a structure to forecast Estimate to Complete (ETC) values. These estimates will assist in identifying when additional funding is needed. For all task orders, actual cost incurred will be compared to actual funding received on a monthly basis.

Task 6 – Reporting

The ENGINEER will prepare monthly reports using the same format used for fiscal year 2007. As work is initiated, actual costs are captured in the accounting system at the appropriate level of the WBS. A labor distribution report will be downloaded weekly to allow the project manager to review and track charges by employee or WBS element. Also on a monthly basis, total costs incurred by task order, including accruals, will be downloaded from the accounting system and electronically imported into the schedule and budget baseline to further integrate the ENGINEER's PCS with scope, schedule, budget, and actual cost data. Once this information is compiled, the monthly performance report can be generated.

Monthly reporting will include the elements of a performance measurement system, and an Estimate at Completion (EAC) calculations. All of the above-mentioned elements allow tracking and monitoring of each task order in a structured process that will provide real-time identification of potential problems and support tracking corrective actions that are developed.

The reporting process discussed above will be applied via a graded approach. The level of detail required will be evaluated on a case by case basis, and reporting established based on size (dollar value), complexity, risk, and schedule constraints.

Task 7 – Baseline Change Control Management

The ENGINEER will implement and maintain a baseline change control management process. It is imperative to maintain cost control throughout the life of the project. Changes to the scope, schedule or budget will not be made without proper contractual notification and approval. The ENGINEER will not perform any technical work that is outside the scope of the original SOW until proper authorization is received and the baseline is modified accordingly. Once approved, the original baseline will be updated, adhering to cost control, and the work will proceed. This ensures that all parties are in agreement with the scope, schedule, and budget, and when performance measurement applications are applied, performance is measured against a valid, contract-oriented baseline.

Services During Construction
The scope of services for this portion of the Task Order is for fiscal year 2008 (May 1, 2008 through April 30, 2009) and provides services during construction for the projects listed above during this time period. Additional task orders will be developed for subsequent fiscal years to cover services during construction for the above projects as well as additional projects that enter construction.

1.0 GENERAL

The ENGINEER will provide Services during Construction (SDC) as defined below. These SDC are intended to assist the OWNER to administer the contract for construction, monitor the performance of the construction Contractor, verify that the Contractor's work is in substantial compliance with the contract documents, and assist the OWNER in responding to events that occur during the construction. These SDC are based upon the understanding that the OWNER will contract directly with the Contractor and will be actively involved in the construction process to make decisions, provide approvals, and perform other actions necessary for the completion of the construction. These SDC are also based upon the OWNER executing a contract for construction with the Contractor that is consistent with the ENGINEER's Agreement and with these SDC, and which provides the requisite authority for the ENGINEER to fulfill its SDC responsibilities.

The ENGINEER's SDC are based upon the schedule or duration of construction anticipated at the time that these services are agreed. Deviations from the anticipated schedule or duration of construction will materially affect the scope of these SDC and the ENGINEER's compensation for the SDC, and will require an adjustment to the ENGINEER's compensation.

The ENGINEER will not be responsible for the means, methods, techniques, sequences or procedures of the Contractor, nor shall ENGINEER be responsible for the Contractor's failure to perform in accordance with the contract documents.

2.0 SERVICES DURING CONSTRUCTION PHASE

The ENGINEER will provide services to assist in coordinating the site activities, administering the contract for construction, monitoring the Contractor's performance, responding to design and technical submittals, and closing out the contract for construction.

2.1 Project Management Services

2.1.1 Management/Administration: The ENGINEER will provide overall project management and consultation support to OWNER for the entire project except as specifically assigned to others.

2.1.2 Workplan: The ENGINEER will develop a general workplan that defines the ENGINEER's delivery approach, staffing, responsibilities, and project deliverables.

Reporting: The ENGINEER will keep the OWNER advised of the progress of the construction. This includes submitting monthly progress reports to the OWNER and holding periodic meetings and consultations with the OWNER.

2.2 Document Management System and Procedures

The ENGINEER will establish a system and set of procedures for managing, tracking and storing relevant documents between the Contractor, the ENGINEER and the OWNER produced during the Construction and Closeout phases of the project. The ENGINEER will utilize an appropriate computer based document management system selected by the ENGINEER. The ENGINEER will, in coordination with the OWNER, maintain hard copy records, suitably organized, of all relevant documentation.

The ENGINEER will implement procedures for the logging and tracking of relevant correspondence and documents. The ENGINEER will assist the OWNER in monitoring all outstanding decisions, approvals or responses required from the OWNER.

2.3 Site Coordination

2.3.1 Pre-Construction Conference: The ENGINEER will attend one pre-construction conference with each Contractor to review the project communication, coordination and other procedures and discuss the Contractor's general workplan and requirements for the project.

2.3.2 Mobilize On-Site Team: The ENGINEER will mobilize a team consisting of one Construction Manager, one Field Coordinator and an Inspector on-site for the assumed construction duration to provide site coordination, contract administration and monitoring the performance of the Contractor. The on-site team will mobilize in field offices to be provided by the Contractor or OWNER in accordance with the terms of the contract for construction.

2.3.3 Communications: The ENGINEER will implement and maintain regular communications with the Contractor during the construction. The ENGINEER will receive and log all communications from the Contractor and will coordinate the communications between the OWNER and Contractor. The ENGINEER will not communicate directly with the Contractor's subcontractors.

2.3.4 Project Site Meetings: The ENGINEER will conduct meetings with each Contractor as required and will prepare the minutes of these meetings. Meetings will be held once a month and progress to twice a month.

2.3.5 Field Instructions and Orders: The ENGINEER will issue field instructions, orders or similar documents during construction as provided in the contract for construction.

2.4 Construction Contract Administration

2.4.1 Permits, Bonds and Insurance: The ENGINEER will verify that the required permits, bonds, and insurance have been submitted by each Contractor.

2.4.2 Payments to Contractor:

2.4.2.1 The ENGINEER will receive and review each Contractor's requests for payment. Maximum of two requests for payment per month will be reviewed by ENGINEER. The ENGINEER will determine whether the amount requested reflects the progress of the Contractor's work and is in accordance with the contract for construction. The ENGINEER shall provide recommendations to the OWNER as to the acceptability of the

requests. The ENGINEER will advise the OWNER as to the status of the total amounts requested, paid, and remaining to be paid under the terms of the contract for construction.
2.4.2.2 Recommendations by the ENGINEER to the OWNER for payment will be based upon the ENGINEER's knowledge, information and belief from its observations of the work on site and selected sampling that the work has progressed to the point indicated. Such recommendations do not represent that continuous or detailed examinations have been made by the ENGINEER to ascertain that each Contractor has completed the work in exact accordance with the contract for construction; that the ENGINEER has made an examination to ascertain how or for what purpose the Contractor has used the moneys paid; that title to any of the work, materials or equipment has passed to the OWNER free and clear of liens, claims, security interests, or encumbrances.
2.4.2.3Correspondence and Communications: The ENGINEER will coordinate all written communications among the Contractor, the ENGINEER and the OWNER during the construction. The ENGINEER will prepare written communications to the Contractor and provide recommendations to the OWNER for written communications between the OWNER and the Contractor.
2.5 Changes
2.5.1 Minor Variations in the Work: The ENGINEER may authorize minor variations in the work which do not involve an adjustment in the Contractor's contract price nor time for construction and are consistent with the intent of the contract documents.
2.5.2 Coordinate Issuance of Changes: The ENGINEER will assist the OWNER with the issuance of changes to the contract for construction. Design and engineering services to prepare drawings, specifications and other information for significant scope changes shall be considered as Additional Services, and shall entitle the ENGINEER to additional compensation.
The ENGINEER will receive and review the Contractor's request for change and cost estimate and will obtain such further information as is necessary to evaluate the basis for the Contractor's proposal. The ENGINEER will assist the OWNER with negotiations of the proposal and, upon approval by the OWNER, prepare final change order documents for execution by the OWNER and Contractor.
2.5.3 Review of Contractor's Requested Changes: The ENGINEER shall review reasonable Contractor-requested changes to the contract for construction. The ENGINEER will make recommendations to the OWNER regarding the acceptability of the Contractor's request and, upon approval of the OWNER, assist the OWNER in negotiations of the requested change. Upon agreement and approval, the ENGINEER will prepare final change order documents.
Design and engineering services of the ENGINEER to review Contractor initiated changes and to prepare drawings and specifications for issuance to the Contractor shall be considered as Additional Services, entitling the ENGINEER to additional compensation.
2.5.4 Change Order Reports: The ENGINEER will provide periodic reports to the OWNER about the status of Change Orders. The report shall include issued Change Orders, pending change orders, and change order amounts.

2.6 Interpretations of Contract Documents
The ENGINEER will provide written responses to the Contractor's request for interpretation or clarification of the contract documents.
2.7 As-Built Documents
The ENGINEER will coordinate the Contractor's submittal of as-built drawings, specifications and other as-built or record documents. The ENGINEER will utilize these and incorporate all changes electronically and produce a conformed set of as-built drawings for the OWNER. The ENGINEER will submit to the OWNER one full size copy of conformed as-built drawings, and one electronic copy of the conformed drawings on a CD.
2.8 Claims and Disputes
The ENGINEER will receive, log, and notify the OWNER about all letters and notices from the Contractor concerning claims or disputes between the Contractor and OWNER pertaining to the acceptability of the work or the interpretation of the requirements of the contract for construction. The ENGINEER will review all such letters and notices and will discuss them with the Contractor as necessary to understand each such claim or dispute. The ENGINEER will advise the OWNER regarding the Contractor's compliance with the contract requirements for such claims and disputes. The ENGINEER will assist the OWNER in discussions with the Contractor to resolve claims and disputes.
The ENGINEER will not issue decisions on Contractor claims or disputes. The ENGINEER will not, except as part of Additional Services, undertake comprehensive and detailed investigation or analysis of Contractor's claims and disputes, nor participate in judicial or alternative dispute resolution procedures for the claims or disputes.
2.9 Project Controls
2.9.1 Contractor's Schedule Submittal: The ENGINEER will review the Contractor's construction schedule and verify that it is consistent with the requirements of the contract for construction. The ENGINEER will advise the Contractor of any areas where the schedule is not in compliance with the contract for construction. The ENGINEER will provide comments to the OWNER to assist the OWNER in approving, accepting or taking other action on the Contractor's schedule, in accordance with the contract for construction.
The ENGINEER's review and comments shall not be considered as a guarantee or confirmation that the Contractor will complete the work in accordance with the contract for construction.
2.9.2 Contractor's Schedule Updates: The ENGINEER will review the Contractor's periodic schedule updates or other schedule submissions. The ENGINEER will advise the Contractor if the updates or other submissions are not in accordance with the contract for construction. The ENGINEER will provide comments to the OWNER regarding the updates or other submissions.

2.9.3 Effect of Change Orders: The ENGINEER will review information submitted by the Contractor regarding the effect of proposed or issued Change Orders upon the construction schedule, duration and completion date. The ENGINEER will advise the OWNER as to the potential impact of proposed or issued Change Orders. The ENGINEER will assist the OWNER in discussions with the Contractor concerning the potential impact of proposed or issued Change Orders.
2.9.4 Periodic Reports: The ENGINEER will provide periodic reports to the OWNER as to the status of the construction schedule, date of completion, contract price, retainage, pending changes to the contract price or completion date and other issues material to the cost and time for completion of the construction.
2.10 Field Inspection
2.10.1 Field Office: The ENGINEER will staff a field office on the project site for purposes of providing inspectors to observe the work of the Contractor.
2.10.2 Independent Testing, Inspection and Survey Services: The OWNER will employ, or cause the Contractor to employ, independent firms for the material testing, specialty inspection, survey, or other services related to verifying the quality of the Contractor's work. The ENGINEER will assist in coordinating OWNER provided testing, inspection and survey services. The ENGINEER will review the reports and other information prepared by the independent firms that are provided to the OWNER. The ENGINEER will assist in coordinating their schedules and the transmittal of their reports, findings or other information to the Contractor and/or the OWNER. The ENGINEER shall not be responsible for the accuracy or completeness of the work and reports of the independent testing, inspection and survey firms.
2.10.3 Review of Work: The ENGINEER will conduct daily on-site observations of the Contractor's work for the purposes of determining if the work generally conforms to the contract for construction and that the integrity of the design concept as reflected in the contract for construction has been implemented and preserved by the Contractor. The ENGINEER will supervise a team of field inspection staff, who will prepare written reports, diaries or other records of their observations.

The ENGINEER's inspection staff will arrange for monthly photographs of the work in progress by the Contractor, which will be made available to the OWNER.

The ENGINEER's observation of the work is not an exhaustive observation or inspection of all work performed by the Contractor. The ENGINEER does not guarantee the performance of the Contractor. The ENGINEER's observations shall not relieve the Contractor from responsibility for performing the work in accordance with the contract for construction, and the ENGINEER shall not assume liability in any respect for the construction of the project. The ENGINEER shall, with the assistance of the OWNER, obtain written plans from the Contractor for quality control of its work, and will monitor the Contractor's compliance with its plan.
2.10.4 Deficient and Non-conforming Work: Should the ENGINEER discover or believe that any work by the Contractor is not in accordance with the contract for construction, or is otherwise defective, or not conforming to requirements of the contract or applicable

rules and regulations, the ENGINEER will bring this to the attention of the Contractor and the OWNER. The ENGINEER will thereupon monitor the Contractor's corrective actions and shall advise the OWNER as to the acceptability of the corrective actions.
2.10.5 Design Team Visits: The ENGINEER will coordinate visits to the site by the design team members to review progress and quality of the work. The visits shall observe the general quality of the work at the time of the visit and review any specific items of work that are brought to the attention of the design team members by the Contractor or the OWNER.
2.10.6 Factory and Off-Site Tests and Inspections: The ENGINEER will coordinate tests and inspections of work, materials and equipment for the project at off-site facilities and suppliers, as specified in the contract for I & C equipment.
2.10.7 Performance and Witness Testing: The ENGINEER will attend and witness field and factory performance tests for the I & C equipment as specified in the contract for construction and the ENGINEER contract scope.
2.10.8 Regulatory and Third Party Testing and Inspections: The ENGINEER will monitor the Contractor's coordination of inspection and testing by regulatory and third party agencies that have jurisdiction over the project.
2.10.9 Subsurface and Physical Conditions: Whenever the Contractor notifies the ENGINEER of subsurface or physical conditions at the site which he believes differs from the contract documents, the ENGINEER will advise the OWNER and inspect the conditions at the site. The ENGINEER will advise the OWNER as to the appropriate action(s), and will assist the OWNER in responding to the Contractor.

Engineering and technical services that are required to investigate the subsurface or physical conditions shall be considered an Additional Service, entitling the ENGINEER to additional compensation.
2.10.10 Substantial and Final Completion: The ENGINEER will assist the OWNER with inspections at substantial and final completion, in accordance with the contract for construction. The ENGINEER will prepare up to two (2) separate punch lists of items requiring completion or correction. The ENGINEER shall make recommendations to the OWNER regarding acceptance of the work based upon the results of the final inspection.
2.10.11 Specialty Inspections: The ENGINEER and OWNER will agree as part of the ENGINEER's scope of work any specialty inspections or testing services that the OWNER requires from the ENGINEER for the work. The ENGINEER shall perform the agreed specialty inspections and testing in accordance with the contract for construction.
2.11 Shop Drawings, Samples and Submittals
2.11.1 Submittal Schedule: The ENGINEER will obtain from the Contractor a proposed shop drawing and submittal schedule, which shall identify all shop drawings, samples and submittals required by the contract for construction, along with the anticipated dates for submission.

2.11.2 Review of Shop Drawings, Samples and Submittals: The ENGINEER will coordinate with the design team for the reviews of the Contractor's shop drawings, samples, and other submittals. The ENGINEER will log and track all shop drawings, samples and submittals.

The ENGINEER and design team's review of all shop drawings, samples and submittals shall be for general conformance with the design concept and general compliance with the requirements of the contract for construction. Such review shall not relieve the Contractor from its responsibility for performance in accordance with the contract for construction, nor is such review a guarantee that the work covered by the shop drawings, samples and submittals is free of errors, inconsistencies or omissions.

2.11.3 Scope of Review: The ENGINEER's scope shall be based upon the scope of work in the contract for construction and shall include for a maximum of two submissions by the Contractor for each shop drawing, sample or submission. Should there be additional reviews required of the ENGINEER and design team, the ENGINEER shall be entitled to additional compensation.

2.12 Design Clarifications

2.12.1 Requests for Information: The ENGINEER will review the Contractor's requests for information or clarification of the contract for construction. The ENGINEER will coordinate such review with the design team and with the OWNER as appropriate. The ENGINEER will coordinate and issue responses to the requests.

The ENGINEER will log and track the Contractor's requests.

2.12.2 Proposed Substitutions: The ENGINEER will assist the OWNER in reviewing and responding to the Contractor's requests for substitution of materials and equipment. The ENGINEER will review such requests and will advise the OWNER as to the acceptability of such substitutions.

2.13 Safety

2.13.1 The ENGINEER will manage the health, safety and environmental activities of its staff and the staff of its subcontractors to achieve compliance with applicable health and safety laws and regulations.

2.13.2 The ENGINEER will coordinate its health, safety and environmental program with the responsibilities for health, safety and environmental compliance specified in the contract for construction. The ENGINEER will coordinate with responsible parties to correct conditions that do not meet applicable federal, state and local occupational safety and health laws and regulations, when such conditions expose the ENGINEER staff, or staff of the ENGINEER subcontractors, to unsafe conditions.

2.13.3 The ENGINEER will notify affected personnel of any site conditions posing an imminent danger to them, which the ENGINEER observes.

The ENGINEER is not responsible for health or safety precautions of construction workers. The ENGINEER is not responsible for the Contractor's compliance with the health and safety requirements in the contract for construction, or with federal, state, and local occupational safety and health laws and regulations.

3.0 SERVICES DURING CLOSE-OUT PHASE

The ENGINEER will assist the OWNER in closing out the contract for construction and commencement of the OWNER's use of the completed work. The ENGINEER's services shall include the following.

3.1 Substantial Completion

The ENGINEER will assist the OWNER in issuing documents for substantial completion and acceptance of the work. The ENGINEER will advise the OWNER on payment, and partial release of retention.

3.2 Final Completion

3.2.1 The ENGINEER will assist the OWNER in issuing documents for final completion and acceptance of the work. The ENGINEER will advise the OWNER on final payment, release of retention, and release of insurance and bonds.

4.0 ASSUMPTIONS

The scope of work outlined above is based on the following assumptions:

4.1 The construction period for each project is based on the schedule as follows:

Northeast WRF Expansion and Upgrade – 1 Aug 05 through 30 Sept 08 (38 months)
Huie PH 4 Constructed Wetlands Site "A" Part 2 – 07 Nov through 01 Aug 2010 (33 months)
Camp Creek Stream Restoration – 01 Apr 08 through 01 Feb 09 (10 months)
Future Elevated Water Tank Coatings – 01 Jun 08 through 31 Sept 08 (4 months)

For this scope of services for fiscal year 2008, the above projects are expected to be active as follows:

Northeast WRF Expansion and Upgrade – 01 May 08 through 30 Jun 08 (2 months) – As-Built Drawings/Warranty Work
Huie PH 4 Constructed Wetlands Site "A" Part 2 – 01 May 08 through 30 Apr 09
Future Elevated Water Tank Coatings - 01 Jun 08 through 31 Sept 08
Camp Creek Stream Restoration - 01 Apr 08 through 01 Feb 09

4.3 The Contractor will provide a field office structure, furniture, telephone, indoor bathroom, and security services for resident ENGINEER staff. The Contractor will pay monthly utility, telephone, and cleaning charges.

The OWNER will not be providing pre-purchased equipment or materials.

4.5 The ENGINEER will attend one pre-construction meeting per construction contract with the OWNER, Contractor and other interested parties in the OWNER's office or at the project site.

Periodic construction progress meetings will be attended at the project site. The ENGINEER will have one person (minimum) attend each meeting.

4.7 The number of original submittals and re-submittals expected during the fiscal year 2008 for each project is as follows:

Northeast WRF Expansion and Upgrade – 0
Huie PH 4 Constructed Wetlands Site "A" (Part 2) – 20 submittals and 15 resubmittals
Camp Creek Stream Restoration – 20 submittals and 10 resubmittals

Future Elevated Water Tank Coatings – inspection services only
The ENGINEER will review one baseline construction schedule and one updated monthly schedule for the Huie PH 4 Constructed Wetlands Site "A" (Part 2) project.
Requests for Interpretation (RFI) from the Contractor, expected during the fiscal year 2008, will be reviewed and responded to as follows:
Northeast WRF Expansion and Upgrade – 0
Huie PH 4 Constructed Wetlands Site "A" (Part 2) – 25 RFI's
Camp Creek Stream Restoration Project – 20 RFI's
The ENGINEER will review Contractors' monthly pay request for the Huie PH 4 Constructed Wetlands Site "A" (Part 2) project and Camp Creek Stream Restoration Project
The ENGINEER will not provide surveying to provide baseline control for construction.
OWNER will provide one experienced inspector from May 01, 2008 through Apr 30, 2009.
4.13 No other construction contracts will be ongoing from May 01, 2008 through April 30, 2009 other than those listed above for this task order. Any other construction contracts will be covered by a separate SDC task order.
5.0 ADDITIONAL SERVICES
The services enumerated herein will be performed only as authorized by OWNER. Authorization to proceed with such additional services will be in the form of a Task Order Amendment specifying the scope of work to be performed and basis of compensation.
Provide services during construction that are outside the services described in this task order, such as:

- Investigations, meetings, and negotiations with the Contractor involving major claims, legal disputes, and/or a significant amount of defective or neglected work of the Contractor.
- Additional work resulting from default, delinquency, or insolvency of the Contractor; or as a result of damage to the construction caused by fire, flood, earthquake, or other acts of God; as well as all additional work resulting from any form of litigation.
- Additional work resulting from strikes, walkouts, or other acts of trade labor unions or work required to resolve disputes or goals involving minority involvement. Additional work resulting from significant delays or acceleration of the work by the Contractor, changes or price increases occurring as a direct or indirect result of materials, equipment, or energy shortages.
- Unusual requirements for assistance to legal, financial, scheduling, or other consultants engaged for the PROJECT by OWNER.
- Assistance in investigating the cause of accidents.

- Warranty performance review services during construction Contractor's 1-year warranty period and to assist OWNER in coordinating corrections of Contractor deficiencies in equipment or construction during this period.

Due to the nature of construction projects, the Scope of Work described in Article 1 is not entirely within the control of the ENGINEER and cannot be exactly predicted. The rate schedule, noted as Attachment A, defines the labor rates for personnel to be utilized in conjunction with the scope of work for Task Order RE-08-02.

ARTICLE 2 — COMPENSATION

Compensation for the Scope of Services outlined in Article 1 shall be in accordance with the terms specified in Attachment A. Compensation shall be cost-reimbursable-per diem (time and expenses), with a maximum, not to exceed amount of $650,000.00 without written approval from the OWNER.

ARTICLE 3 — INSURANCE

The insurance coverage required for this "Task Order" is shown on the attached insurance Exhibit A.

This Task Order will become part of the referenced AGREEMENT when executed by both parties.

IN WITNESS WHEREOF, the parties execute below:

For OWNER, CLAYTON COUNTY WATER AUTHORITY
Dated this _____day of _____, 2008
By:_____
Name Title

For ENGINEER, CH2M HILL
Dated this _____day of _____, 2008
By: _____
Name Title

ATTACHMENT A
PROPOSED 2008 LABOR COMPENSATION SCHEDULE
CLAYTON COUNTY WATER AUTHORITY

Per Diem Class	Grade	Billing Title	2007 Bill Rate**	2008 Bill Rate**
1	E9	Principle/Program Manager/Information Solutions Manager	$168.00	$168.00
2	E8	Principle/Program Manager/Information Solutions Manager	$168.00	$168.00
3	E7	Principle/Program Manager/Information Solutions Manager	$168.00	$168.00
4	E6	Project Manager/Senior Project Engineer/IS Engineer	$146.00	$146.00
5	E5	Project Manager/Senior Project Engineer/IS Engineer	$146.00	$146.00
6	E4	Project Engineer/Senior Engineer/Senior Planner/Senior Scientist	$124.00	$124.00
7	E3	Associate Engineer/Planner/Scientist	$104.00	$104.00
8	E2	Staff Consultant/Engineer/Software Development Analyst	$94.00	$94.00
9	E1	Staff Consultant/Engineer	$80.00	$80.00
10	E0	Staff Consultant/Engineer	$80.00	$80.00
11	T5	Lead Technician/Project Controls Specialist	$93.00	$93.00
12	T4	Lead Technician/Project Controls Specialist	$93.00	$93.00
13	T3	Field Service Specialist/Design Aide/Engineering Technician	$69.00	$69.00
14	T2	Field Service Specialist/Design Aide/Engineering Technician	$69.00	$69.00
15	T1	Field Service Specialist/Design Aide/Engineering Technician	$69.00	$69.00
16	T-Aide	Field Service Specialist/Design Aide/Engineering Technician	$69.00	$69.00
OFC	OFC	Office Support	$63.00	$63.00
		Startup Consultant	$146.00	$146.00
		Construction Manager	$141.00	$141.00
		Resident Engineer	$112.00	$112.00
		Field Engineer	$95.00	$95.00
		Lead Inspector	$85.00	$85.00
		Inspector	$76.00	$76.00
		Technical Assistant	$69.00	$69.00

**For all personnel, the proposed 2008 bill rate is equal to the approved 2007 bill rate rounded to the nearest whole dollar.

EXHIBIT A
INSURANCE REQUIREMENTS
TASK ORDER RE-08-02

Fiscal Year 2008 Program Management Services and Services During Construction for CCWA's Northeast WRF Expansion and Upgrade, Huie PH4 Constructed Wetlands Site "A" (Part 2) and Future Water Elevated Tank Coatings Projects and Camp Creek Stream Restoration Project

ENGINEER's Insurance

The Engineer will maintain throughout the completion of the above and any subsequent task orders in connection with this project and after completion as required in this Exhibit A.

(a) Workers' compensation as required by the State (Statutory) where the work is performed and Employers Liability in the amount of one million ($1,000,000) Each Per Accident, Per Disease Each Employee and Per Disease Policy Limit. ENGINEER shall also indemnify and hold OWNER harmless for any such liability that may attach to OWNER as a "statutory employer" of any of ENGINEER'S employees, agents or subcontractors. "An Alternate Employer Endorsement" naming the Owner as a protected Alternate Employer will be added to the Workers' Compensation policy.

(b) Automobile Liability insurance covering claims for injuries to persons and/or property arising from the use of motor vehicles, including onsite and offsite operations, owned, non-owned or hired vehicles, with $1,000,000 Combined Single Limit.

(c) Commercial General Liability, Occurrence Form, including Contractual Liability, per Project General Aggregate Limit of Liability, losses caused by explosion, collapse and underground (X,C,U perils). The Owner is added as an Additional Insured using ISO Form CG 20-10 extended to include Products/Completed Operations, or an equivalent Additional Insured endorsement, either form must be acceptable to the Owner. The coverage is primary as to the work of the ENGINEER for the Owner and includes separation of insureds (cross liability). Additional Insured status will be certified to the Owner for a period of five (5) years following completion of the project. The General Liability shall cover claims for injuries to persons or damage to property arising out of any covered negligent act or omission of ENGINEER or of any of its employees, agents, or subcontractors.

The limits of coverage shall be:

$ 1,000,000 Per Occurrence

$ 1,000,000	Personal or Advertising Injury
$ 1,000,000	Fire Damage
$ 5,000	Medical Payments
$ 1,000,000	General Aggregate
$ 1,000,000	Products/Completed Operations Occurrence and Aggregate

In the alternative, the ENGINEER may substitute a claims made policy in the same amounts and for the same coverages, provided that it has full prior acts coverage and a five (5) year Extended Reporting Period included in the current policy.

(d) Professional liability insurance to include coverage for the Owner and all Subs, Engineers and Design Consultants, with a minimum limit of $10,000,000 per claim and in the aggregate. The OWNER may increase the limit requirements where in the opinion of the OWNER such increase is desired. The policy shall contain an eight (8) year Extended Reporting Period or the Engineer will furnish the Owner evidence of continuing coverage for that same period of time after completion. The Retro-active date under the policy will predate any work for the Owner. Sixty (60) days prior written notice of cancellation or non-renewal shall be given to the OWNER in the event of termination or non-renewal.

The Owner may elect to obtain a PROJECT policy on a primary or excess basis. The Engineer will amend their PRACTICE policy to provide primary or excess coverage to increase the combined limits of coverage. Deductibles included in the policies will be the responsibility of the Engineer.

(e) An Umbrella policy, including Excess following form, will be provided with a minimum limit of $10,000,000 Per Occurrence and Aggregate (Per Project) and will apply over underlying policies for Automobile Liability, Commercial General Liability and Employers Liability. The Umbrella policy limits may be combined with the underlying limits to obtain the total limits required.

(f) The ENGINEER will furnish a Certificate of Insurance to the Owner for coverages (a) Workers' Compensation/Employers Liability; (b) Automobile Liability; (c) Commercial General liability; (d) Professional Liability; and (e) Umbrella Liability. The certificates will include a copy of the endorsement on each policy, which requires written notice to the Owner in, the event, of termination or non-renewal, of at least sixty (60) days.
The certificates for the Commercial General Liability will also include a copy of the endorsement naming the Owner as an Additional Insured, providing primary coverage for Products/Completed Operations, Occurrence and Aggregate.

Waiver of Subrogation – ENGINEER waives subrogation against Owner as to Workers' Compensation including Employment Practices Liability, Automobile and Commercial General Liability Policies.

(g) Each and every policy required by this contract shall be with a company that is rated by Best as A- or better. Further, the OWNER shall not be responsible for any deductibles established by such policies.

Mr. Buffington called on Jay Kirk, our Engineering Consultant with CH2M Hill, who reaffirmed their commitment to provide quality service to the Water Authority. CH2M Hill has negotiated with the Authority's management staff and is proposing keeping their rates consistent with 2007. Therefore, there will be no increase in rates for 2008. On behalf of CH2M Hill, Jay thanked the Authority again for the opportunity of allowing CH2M Hill to continue providing services to the Water Authority.

UPON Motion by Marie Barber and seconded by John Chafin it was unanimously

RESOLVED: to approve the Program Management and Services During Construction Fiscal Year 2008 Task Order No. RE-08-02, in the not-to-exceed amount of six hundred fifty thousand dollars ($650,000).

CH2M Hill Task Order RE-08-01, Casey Detail Design Pelletization Improvements: Mike Buffington continued with the Casey Detail Design Pelletization Improvements Task Order.

The W. B. Casey WRF Sludge Pelletization Facility was placed in operation in 1980 along with expansion and upgrade of the water reclamation facility. This more than 25-year old facility provides beneficial use of biosolids. Some of the equipment has been replaced over the years and some areas need to be upgraded and modernized. The 2007 Biosolids Management Plan reviewed sludge pelletization and other alternatives for sludge management at the plant. It was found that pelletization of the biosolids was a viable solution and with continued maintenance and upgrades the facility could remain in use through 2030. The Solids Management and Capital Improvement Recommendations report completed in January 2008 included a phased approach to improvements to solids handling at the Casey WRF.

Workshops were held with plant staff to evaluate recommendations to extend the life of the facility. This project includes engineering design services provided by CH2M Hill to complete a detailed design and preparation of construction documents for selected upgrades. Improvements will include architectural; instrumentation and control; electrical; safety; and odor control. The task order will include site visits; design

workshops; detailed design and preparation of construction documents; cost estimates; and bid services.

Project Managers:
- CH2M Hill, Engineers – Jay Kirk
- Clayton County Water Authority – Mike Buffington

Proposed Task Order Amount:
- Task Order Amount – $368,070
- Time and Materials (not to exceed amount)

Funding:
- The project will be funded by R&E Funds

TASK ORDER NO. RE-08-01

This Task Order is an attachment to the Master Services Agreement ("AGREEMENT") between CH2M HILL, INC., ("ENGINEER") and CLAYTON COUNTY WATER AUTHORITY ("OWNER") for a PROJECT generally described as the detailed design of selected improvements for the W.B. Casey Water Reclamation Facility (WRF) Pelletization Facility.

Background

The purpose of this Task Order is to provide engineering services for the detailed design of selected improvements at the OWNER's W.B. Casey WRF. The engineering and detailed design support will result in Drawings and Specifications required to implement the improvements outlined in Article 1.

ARTICLE 1- SCOPE OF SERVICES

The ENGINEER agrees to furnish OWNER with the following specific services:

Task 1- Schematic Design

The schematic design will be initiated with a kick-off meeting that will be held between the ENGINEER and OWNER to establish lines of communication, to understand all project team member's expectations and critical success factors for the project. The kick-off meeting will also include a review of deliverables for the conceptual design and final design phases, and identify OWNER preferences for conducting the design.

The schematic design will outline the architectural, electrical, instrumentation and control (I&C), and safety improvements that are proposed for the existing Pelletizing Facility. The schematic design will also determine the proposed location and size of the new Break Room, new Operator Control Room, and Chief Operator Office in the existing Pelletizing Facility. Additionally, the specific layout and modifications to the existing Supervisor Office, the existing Laboratory, and the existing Restroom/Locker Room will be outlined.

The preliminary Drawings provided upon completion of the schematic design will serve as the guiding document for the upgrades proposed for the existing Pelletizing Facility. The Schematic Design will include preliminary Drawings showing the following:

- Eleven existing primary sludge valves to be replaced with full port valves.
- Proposed routing of the cable tray/exposed conduit that will be used to re-feed the existing equipment located throughout the Pelletizing Facility.
- Preliminary P&IDs that outlines the equipment that will be connected to the proposed control system.
- Proposed location and sizes of the new Operator's Control Room, new Break Room, and new Chief Operator's office all located within the existing Pelletizing Facility. Design criteria will be developed documenting the justification for the new room sizes and location, and material and equipment selections for each room.

Deliverables and Meetings

- Conduct Schematic Design kickoff meeting
- Conduct review meeting with OWNER
- Four (4) hard copies of the half-sized 30% Schematic Design Drawings

Task 2- Detailed Design

The Detailed Design effort will commence with an OWNER review meeting to discuss OWNER comments for the Schematic Design Drawings provided. The design concepts and criteria determined in Task 1 will be used as the basis for the preparation of the Detailed Design Drawings and Specifications provided at the conclusion of the Detailed Design (DD) phase.

Deliverables and Meetings

- Conduct review meeting with OWNER.
- Four (4) hard copies of the half-sized 60% Detailed Design Drawings and Specifications.
- One Class 2 cost estimate as defined by the American Association of Cost Engineering (AACE) will be provided to the OWNER upon completion of the Detailed Design Drawings and Specifications.

Task 3- Final Design

The Final Design will commence with an OWNER review meeting to discuss OWNER comments for the Detailed Design Drawings and Specifications provided. The design concepts and criteria determined in Task 1 and expanded in Task 2 will be used as the basis for the preparation of the Final Design Drawings and Specifications provided. The specific upgrades and modifications that are to be implemented as part of Task 3 include the following:

Task 3A- Architectural Improvements to the W.B. Casey Pelletization Facility
The site inspections that were performed as part of Task Order RE-07-03 identified that the W.B. Casey Pelletization Facility contained corroded exterior wall panels, corroded wall purlins, and corroded roof purlins. Under Task 3A, ENGINEER proposes to provide an architectural design that includes the following:
Remove all existing aluminum exterior wall panels and replace them with new panels

- Replace the entire roof and gutter system
- Replace 4 steel wall purlins and 4 steel roof purlins
- Replace steel vent stack frame
- Replace existing personnel doors and overhead door.
- Provide a new Operator Control Room, new Chief Operator's office, and a new Break Room within the existing facility.
- Remodel the existing Laboratory, existing Supervisor's office, and Restroom/Locker Room.

Task 3B- Electrical Improvements to the W.B. Casey Pelletization Facility
The electrical improvements proposed for the WB Casey Pelletization Facility include the following:

- Remove all existing lighting and power panels in the facility and replace them with new panels
- Remove three existing belt filter press control panels and install three new belt filter press control panels for the existing equipment
- Remove the existing main control panel and install a new motor control center to re-feed all existing equipment
- Provide all necessary conduit and conductors to power the new and existing equipment. All conduit and conductors shall be installed exposed

Task 3C- Instrumentation and Control (I&C) System Improvements to the W.B. Casey Pelletization Facility
The I&C improvements proposed for the W.B. Casey Pelletization Facility include the following:

- Install a new automated control system consisting of a programmable logic controller (PLC) and Human Machine Interface (HMI) to replace the existing relay based control panel.
- Provide and install additional instrumentation required for improved safety to be consistent with current industry standards

Task 3D- Safety Improvements to the W.B. Casey Pelletization Facility
The safety improvements proposed for the WB Casey Pelletization Facility include the following:

- Install safety guardrails around the rotating drums of the two dryers
- Provide dryer inertizing – water sprays between the furnace and drum for startup
- Provide dryer deluge – water sprays between furnace and drum for emergency

- Provide dryer oxygen analyzer at the dryer outlets
- Provide combustible carbon monoxide analyzer at fan outlets
- Provide explosion relief/flame arrestor unit on top of recycle bin
- Provide explosion relief/flame arrestor unit at bottom and top of bucket elevator casing
- Provide oxygen and carbon monoxide analyzers at recycle bin

Task 3E- Primary Sludge Valve Upgrades to the W.B. Casey Pelletization Facility
The primary sludge valve upgrades proposed include removal of eleven existing plug valves installed on the primary sludge line. The existing valves will be replaced with full port valves.
Task 3F- Relocation of the Dryer Intakes to the Belt Filter Press area of the W.B. Casey Pelletization Facility
The existing dryer intakes will be modified to capture the odorous air from the belt filter presses and dewatered cake bins.
Deliverables and Meetings

- Conduct review meeting with OWNER.
- Four (4) hard copies of the half-sized 90% Drawings and Specifications
- One Class 1 cost estimate as defined by the American Association of Cost Engineering (AACE) will be provided to the OWNER upon completion of the 90% Drawings and Specifications.
- Conduct Final Design OWNER review meeting
- Four (4) hard copies of the half-sized 100% Drawings and Specifications.
- One CD will be provided that includes a PDF copy of the associated 100% Drawings and an electronic copy of the technical specifications.

ENGINEER's Assumptions
The following ENGINEER's assumptions are included:

- ENGINEER assumes that the W.B. Casey Pelletization Facility is considered an unclassified area per NFPA 820. ENGINEER assumes that an area within 10 feet of any rotating parts on the dryers shall be considered a Class II, Division 2 area per NFPA 499. ENGINEER will consult with the Authority Having Jurisdiction (AHJ) to verify that the existing facility will be considered an unclassified space per NFPA 820 without inclusion of any additional forced ventilation or monitoring of the existing ventilation system.
- Architect will attend initial kick-off meeting. However, the architect will participate in all following OWNER review meetings via a conference call instead of in person.
- Water is available within the Pelletization Facility of sufficient pressure and volume as necessary for the spray system proposed for the dryers.

- The instrumentation and control system recommended with the proposed improvements will not interface with the plant control system that was installed as part of the W.B. Casey Water Reclamation Facility Expansion and Upgrade that was designed in 2002.
- No HVAC modifications are required in the modified Control Room or the modified Laboratory.
- OWNER review meetings will be held at the 30%, 60%, and 90% completion levels of the PROJECT. ENGINEER will attend each review meeting. The review meeting will be held a maximum of 14 calendar days after the completion of each phase of the PROJECT. The OWNER will provide all review comments in the review meeting. Written meeting minutes from each review meeting will be distributed by the ENGINEER.
- Any additional reproduction and labor costs incurred by ENGINEER to provide additional sets of Drawings and Specifications required during the Bidding Phase will be reimbursed to the ENGINEER.
- ENGINEER will modify OWNER's front end documents for inclusion into the final Specifications.

- Bid Phase Services are included as part of the Task Order. However, no Services During Construction are included as part of this Task Order.

- OWNER shall be responsible for preparation of any documentation necessary for prequalification of any bidders.

- OWNER shall be responsible for all permitting required to implement the proposed improvements.

ARTICLE 2- COMPENSATION

Compensation for the Scope of Services outlined in Article 1 shall be in accordance with the terms specified under the Master Services Agreement. Compensation shall be on a time and expense basis (per diem) with a not-to-exceed amount of $368,070.00.

ARTICLE 3- SCHEDULE

This Task Order is based upon the PROJECT schedule as shown in Table 1.

Table 1
Project schedule
Task Order RE-08-01

Task	Start Date	Duration
Schematic Design Phase (SD – 30%)	14 calendar days after Owner issues NTP	45 calendar days
Detailed Design Phase (DD – 60%)	14 calendar days after completion of SD phase	45 calendar days
Final Design Phase (CDP – 90%)	14 calendar days after completion of DD phase	60 calendar days
Project Fixup (100%)	14 calendar days after completion of CDP phase	14 calendar days

NTP = Notice to Proceed

ARTICLE 4- INSURANCE

The insurance coverage required for this Task Order is shown in Exhibit A, "Insurance Requirements", which is attached hereto and made part of this Agreement.

This Task Order will become part of the referenced AGREEMENT on the effective date, which is the latest date when this Task Order has been signed, as shown below.

IN WITNESS WHEREOF, the parties execute below:

For OWNER, CLAYTON COUNTY WATER AUTHORITY

Dated this _____ day of _____, 2008

By: _____
Name Title

For ENGINEER, CH2M HILL, INC.

Dated this _____ day of _____, 2008

By: _____
Name Title

EXHIBIT A
INSURANCE REQUIREMENTS
TASK ORDER RE-08-01
Preliminary Design and Engineering Support for the WB Casey Water Reclamation Facility (WRF) Pelletization Facility

ENGINEER's Insurance

The Engineer will maintain throughout the completion of the above and any subsequent task orders in connection with this project and after completion as required in this Exhibit A.

(a) Workers' compensation as required by the State (Statutory) where the work is performed and Employers Liability in the amount of one million ($1,000,000) Each Per Accident, Per Disease Each Employee and Per Disease Policy Limit. ENGINEER shall also indemnify and hold OWNER harmless for any such liability that may attach to OWNER as a "statutory employer" of any of ENGINEER'S employees, agents or subcontractors. "An Alternate Employer Endorsement" naming the Owner as a protected Alternate Employer will be added to the Workers' Compensation policy.

(b) Automobile Liability insurance covering claims for injuries to persons and/or property arising from the use of motor vehicles, including onsite and offsite operations, owned, non-owned or hired vehicles, with $1,000,000 Combined Single Limit.

(c) Commercial General Liability, Occurrence Form, including Contractual Liability, per Project General Aggregate Limit of Liability, losses caused by explosion, collapse and underground (X, C, U perils). The Owner is added as an Additional Insured using ISO Form CG 20-10 extended to include Products/Completed Operations, or an equivalent Additional Insured endorsement, either form must be acceptable to the Owner. The coverage is primary as to the work of the ENGINEER for the Owner and includes separation of insureds (cross liability). Additional Insured status will be certified to the Owner for a period of five (5) years following completion of the project. The General Liability shall cover claims for injuries to persons or damage to property arising out of any covered negligent act or omission of ENGINEER or of any of its employees, agents, or subcontractors.

The limits of coverage shall be:

$ 1,000,000	Per Occurrence
$ 1,000,000	Personal or Advertising Injury
$ 1,000,000	Fire Damage
$ 5,000	Medical Payments
$ 1,000,000	General Aggregate
$ 1,000,000	Products/Completed Operations Occurrence and Aggregate

In the alternative, the ENGINEER may substitute a claims made policy in the same amounts and for the same coverages, provided that it has full prior acts coverage and a five (5) year Extended Reporting Period included in the current policy.

(d) Professional liability insurance to include coverage for the Owner and all Subs, Engineers and Design Consultants, with a minimum limit of $10,000,000 per claim and in the aggregate. The OWNER may increase the limit requirements where in the opinion of the OWNER such increase is desired. The policy shall contain an eight (8) year Extended Reporting Period or the Engineer will furnish the Owner evidence of continuing coverage for that same period of time after completion. The Retro-active date under the policy will predate any work for the Owner. Sixty (60) days prior written notice of cancellation or non-renewal shall be given to the OWNER in the event of termination or non-renewal.

The Owner may elect to obtain a PROJECT policy on a primary or excess basis. The Engineer will amend their PRACTICE policy to provide primary or excess coverage to increase the combined limits of coverage. Deductibles included in the policies will be the responsibility of the Engineer.

(e) An Umbrella policy, including Excess following form, will be provided with a minimum limit of $10,000,000 Per Occurrence and Aggregate (Per Project) and will apply over underlying policies for Automobile Liability, Commercial General Liability and Employers Liability. The Umbrella policy limits may be combined with the underlying limits to obtain the total limits required.

(f) The ENGINEER will furnish a Certificate of Insurance to the Owner for coverages (a) Workers' Compensation/Employers Liability; (b) Automobile Liability; (c) Commercial General liability; (d) Professional Liability; and (e) Umbrella Liability. The certificates will include a copy of the endorsement on each policy, which requires written notice to the Owner in, the event, of termination or non-renewal, of at least sixty (60) days.
The certificates for the Commercial General Liability will also include a copy of the endorsement naming the Owner as an Additional Insured, providing primary coverage for Products/Completed Operations. Occurrence and Aggregate.

Waiver of Subrogation – ENGINEER waives subrogation against Owner as to Workers' Compensation including Employment Practices Liability, Automobile and Commercial General Liability Policies.

(g) Each and every policy required by this contract shall be with a company that is rated by Best as A- or better. Further, the OWNER shall not be responsible for any deductibles established by such policies.

UPON Motion by Lloyd Joiner and seconded by John Westervelt it was unanimously

RESOLVED: to approve the W. B. Casey WRF Pelletization Improvements Detailed Design Task Order No. RE-08-01, in the not-to-exceed amount of three hundred sixty-eight thousand seventy dollars ($368,070).

Property & Casualty Insurance Renewal: Chairman McQueen called on Karen Riser, Risk Manager. Ms. Riser presented a recommendation for renewal of property and casualty insurance as shown in the table below.

Clayton County Water Authority
FY 2008-2009
Property and Casualty Insurance Projected Premium Summary

Coverage	Insurance Company	2007 – 2008 Actual Annual Premium	2008 – 2009 Projected Annual Premium
Property/Boiler/EDP	Chubb	$201,169.00	$162,343.00
Contractors Equipment/Transit	Chubb	$ 18,138.00	$ 7,558.00
Crime	Hartford	$ 5,483.00	$ 5,483.00
General Liability	Travelers	$242,338.00	$277,694.00
Automobile	Travelers	$152,290.00	$127,014.00
Umbrella ($10M)	Travelers	$ 92,822.00	$ 77,809.00
Excess Workers' Compensation	Midwest Employers Casualty	$ 24,813.00	$ 25,480.00
Public Entity Management Liability	Travelers	$ 9,490.00	$ 8,365.00
Employment Practices Liability	Travelers	$ 25,025.00	$ 24,555.00
Corporate Identity Protection	AIG	$ 9,312.16	$ 12,253.00
Travel/Accident – Board	AIG	$ 1,556.00	$ 2,000.00
TOTAL		**$782,436.16**	**$730,554.00**

Notes

1. Workers' Compensation is a two-year guaranteed rate program, annual installments, subject to audit.

2. Crime policy is a three-year policy effective 5/1/2007 – 5/1/2010, total premium $16,448.
3. Corporate Identity Protection renewal premium estimated, subject to receipt and review of application by AIG.

The staff recommends renewing the CCWA property and casualty insurance policies as indicated above for a total cost not to exceed $731,000 for the policy year May 1, 2008 through April 30, 2009 which is funded in the FYB 2008 by the various business units as part of their respective operating expense.

Upon Motion by Doug Bonner and seconded by John Chafin it was unanimously

RESOLVED: to approve staff's recommendation to renew the CCWA Property and Casualty Insurance policies as indicated above for a total cost not to exceed seven hundred thirty-one thousand dollars ($731,000) for the policy year, May 1, 2008 through April 30, 2009, which is funded in the FYB 2008 by the various business units as part of their respective operating expense.

Policy Manual Chapter 4: Chairman McQueen called on Terry Hicks who explained the process that staff is using to develop this policy manual document. Mr. Hicks stated that included in this month's proposal is Chapter 4, Customer Service. The Board will find two versions of this Chapter. The first will be the draft chapter for Board review, including all items under this subject that were identified in previous minutes with our reasons for deletion or modification. The second document is the proposed final chapter incorporating these changes for Board approval. After all the chapters have been presented to the Board for review and approval, we will then adopt the full manual. This Policy Manual will then supersede all previous Board actions.

Badger Meter Contract: Chairman McQueen called on Mike Bennett, Deputy Manager.

In 2007, the CCWA Board authorized CCWA staff to proceed with a $10 million, 4 year program to upgrade all water meters in the system by replacing older meters and converting all meters to "automated meter reading" (AMR) technology. Currently the CCWA AMR metering system consists of approximately 25,000 Itron AMR components that have not performed adequately. The current material cost for this system is $137.50 for each 5/8-inch Badger meter equipped with an Itron AMR device.

CCWA staff investigated successful AMR systems in the southeast and conducted site visits to two of these systems that utilize Badger water meters with a Badger/Orion AMR device. Staff consulted with a recognized AMR expert to provide information on the "state-of-the-art" AMR equipment standards and contract negotiation strategies. Our

team was successful in negotiating a fair market price for the Badger/Orion AMR system components at a price of $121.00 for a 5/8-inch Badger meter equipped with an Orion AMR device. This cost reduction equates to a savings of over $800,000 for converting the remaining 50,000 water meters in the CCWA system. **Staff recommends the Board authorize staff to enter into a contract with Badger Meter, Inc. to furnish the water meters and AMR devices required for the CCWA AMR conversion.**

CCWA staff and our AMR consultant also reviewed AMR installation contract options and performance problems experienced by other utilities during AMR conversions. A site visit and construction contract review was conducted with the City of Atlanta's current meter replacement and AMR conversion project. In addition to the quality control of the meter replacement and AMR device installation, the most critical element of the AMR conversion process is the detailed data capture and integration with the utility billing system. Our current target is to install approximately 250 individual AMR systems each week or approximately 13,000 per year. In addition, we plan on combining this installation project with the residential backflow cartridge replacement project also required for these meter systems. We believe that this program can be implemented most effectively and accurately by utilizing CCWA meter reading staff and backfilling these positions with temporary employees rather than utilizing the services of an outside contractor. **Staff recommends the Board authorize staff to create 3 temporary (2 years) meter reading positions to enable the formation of a CCWA installation team for this critical program.**

Upon Motion by Marie Barber and seconded by John Westervelt it was unanimously

RESOLVED: to authorize staff to enter into a contract with Badger Meter, Inc. to furnish the water meters and AMR devices required for the CCWA AMR conversion at a price of one hundred twenty-one dollars each ($121.00) for a 5/8-inch Badger meter equipped with an Orion AMR device, contingent upon approval of bonds and insurance as required by the specifications and to authorize the General Manager to sign the contract documents. A schedule of values for all other meter sizes is included in the contract. The Board also authorizes staff to create 3 temporary (2 years) meter reading positions to enable the formation of a CCWA installation team for this critical program.

Adoption of 2008 Strategic Plan: Chairman McQueen called on Mike Thomas, General Manager, who stated that for informational purposes only the Board has been given a copy of our 2008 Strategic Plan that staff has developed. This is the first time that we have developed something this detailed that addresses not just capital improvements but our day to day operations of business as well. We went through the process of refining our mission and vision and then developed six (6) most important

company wide goals for next year. Then each individual department got together and developed their own specific goals to help with the company wide goals. We will use this plan in conjunction with our budget. We will bring this back to the Board at the next meeting for approval.

Clayton County Water Authority
2008 Strategic Plan

Mission:
Provide reliable water services to our community through innovation, efficiency and the protection of our water environment

Vision:
Quality Water, Quality Service

Introduction

Strategy is defined as a plan, method or series of maneuvers for obtaining a specific goal or result. The CCWA **Strategic Plan** is a business plan built around a common mission and vision for the company that will promote a process of continuous improvement. CCWA has a proud history of successful planning and implementation primarily through the development of capital master plans. However, this is the first Strategic Plan developed by CCWA that includes all aspects of our business and capital improvement planning.

2007 was a year of transition for CCWA with many new faces in key leadership positions including the General Manager, Deputy Manager, Customer Accounts Director, and the Program Management and Engineering Manager. CCWA also implemented a significant new program, the stormwater utility and implemented a new customer information system (CIS). It was a good time to look to the future and re-evaluate our mission and vision. During the second half of 2007, CCWA management gathered input from our staff and Board of Directors on the current mission and vision statements and the important issues for CCWA to address in the future. The CCWA Management Team partnered with our new Employee Communications Team to utilize this information to help revise our mission and vision statements to reflect current conditions and directions.

Following the development of the new mission and vision statements, this group also developed a set of six company-wide goals for 2008 based on a review of our strengths, weaknesses, opportunities and threats (SWOT). A company slogan was also developed. A summary of these planning activities are included in Appendix One. The mission, vision and company slogan are listed below.

Mission:
Provide reliable water services to our community through innovation, efficiency and the protection of our water environment

Vision:
Quality Water, Quality Service

***Slogan*:**
Providing reliable water services
Unique and innovative solutions
Responsible care of water resources
Efficiently servicing customer needs

2008 Company Wide Goals
Based on feedback from our Board of Directors and staff and a review the SWOT analysis, the Management Team and Employee Communications Team worked together to develop the following company-wide goals for 2008. Each Department has developed specific goals to support these company wide goals. Progress towards achieving these goals will be evaluated by the CCWA Management Team at least twice a year and will be reflected in all management and employee reviews.

Maintain water quality standards and provide reliable water services
This is the basic service that CCWA is charged to provide to our customers and must always be our main focus. One thing that is sometimes taken for granted is the key role that CCWA plays in the public health of our community – without clean, safe drinking water, wastewater collection and treatment and stormwater management services, our community would not enjoy the high level of health and quality of life that we have today. This service must be maintained 24 hours a day, 7 days a week and 365 days a year.

We are also in the midst of the second worst drought on record for our area which has resulted in State mandates to conserve water and prohibit outdoor water use. CCWA will continue to focus on developing a sustainable water supply and improving water conservation efforts.

Develop an enthusiastic, professional and diverse work family
Our most valuable resource is our employees and to insure we maintain the high levels of service and performance that CCWA is known for we must have an enthusiastic and professional work family. Our work force, community and world are also very diverse and we strive to promote this aspect of our company. We strive to provide a great work environment with well trained employees ready to carry out the duties necessary to fulfill

our mission and vision. We will not continue to be one of the best utilities in the country without achieving this goal.

Improve customer services
Our business exists to provide water, wastewater and stormwater services to our community. Although we have a monopoly on providing these services, we desire to provide excellent customer service, so that given the chance to chose, our customers would still chose CCWA. Most people take water services for granted and we also need to do a better job as an industry of educating our customers on the value of the services we provide.

Utilize current resources and technology to accomplish our mission while increasing efficiency by 5%.
We have a limited customer base and a need to conserve the very resources that we sell, therefore, our revenue stream is limited. In order to keep our service rates as low as possible and still provide quality service we must operate as efficiently as possible. We must take advantage of technological advances to improve operating efficiencies. We have set a target of 5% improved efficiency which can simply mean to lower operating costs by 5% or increase services by 5% without an associated increase in cost or any combination thereof.

Develop Master Plans for Capital Projects
We must continue our tradition of master planning for capital projects to insure we have the financing available to meet regulatory, growth and maintenance needs. In order to provide our services, we must maintain a significant infrastructure of pipes, plants and equipment. These assets require replacement and maintenance and new assets are required to meet growth, regulatory and environmental needs.

Enhance Community Relations
We wish to be a positive part of the community we serve and to give back in some way to our customers. As an organization, we wish to be a positive influence in the community not only by providing quality services but by becoming involved in other ways to promote a positive community experience. This can include involvement in charities, the school system, business forums, etc.

Upon Motion by John Chafin and seconded by Marie Barber it was unanimously

RESOLVED: that the Board adjourn into executive session for land, legal, and personnel issues. The Board reserves the right to return to open session.

The Board returned to open session.

Mr. Thomas stated that in 1997 or 1998 the Authority bought sewer capacity from Henry County. Henry County had built a small land application facility below Atlanta Motor Speedway. The Water Authority paid Henry County Water and Sewerage Authority (HCWSA) two hundred fifty thousand dollars ($250,000) for twenty-three thousand seven hundred (23,700) gallons of capacity a day. We not only bought that capacity, we shared in the cost to extend the sewer line from the plant up to the county line near Lower Woolsey Road. Our share in that was eighty-five thousand dollars ($85,000). To date, we have not used any of that capacity.

There now is some development going on around Tara Field and part of their plan involves access to the airport. There is not total agreement between the developer and the Clayton County Board of Commissioners about what will be developed there. The developer is pursuing sewer service and talked to Lindy Farmer at Henry County Water and Sewerage Authority (HCWSA). HCWSA told the developer that they had limited capacity there. The developer has now approached Clayton County Water about capacity. The developer plans to extend the sewer line up to Tara Field in order to serve his development and said that he would make that available to the County and the airport. The issue that we have is that the Authority only has twenty-three thousand seven hundred (23,700) gallons of capacity. The developer would like to use about sixteen thousand gallons (16,000) per day which would be about two thirds (2/3) of our capacity. We have also mentioned to the developer that they would have to purchase this as they would not be one of our customers. The development is in Henry County and the sewer flow is in Henry County. The other issue is that the airport itself, including the county hangar and operations facility, is entirely on septic tank right now. If we wanted to sell the capacity to the developer based on what we have put into it, the cost would be one hundred sixty-four thousand four hundred twenty-two dollars ($164,422). There also is the question whether we want to recover some of the money from the sewer line extension.

The Board recommends that Mr. Thomas discuss this issue with Chairman Eldrin Bell, Clayton County Board of Commissioners, and then bring back to the Board.

Mr. Thomas stated that as Mr. McHugh mentioned, the draft budget is almost complete. We are projecting less revenue for next year due to the economy, vacant properties and less impact fees revenue. On the good side, we have a balanced budget, money in the contingency fund, and the budget is set up with one percent (1%) cola and three percent (3%) maximum merit.

Mr. Thomas stated that the Huie Phase 4 Wetlands has been cleared and is now ready for grading. During some of the heavy rains that we have had, drainage off the

Huie Phase 4 Wetlands site has gone into Carnes Lake. Mike Buffington has been working with the contractor to address this issue.

Mr. Thomas stated that the Chamber of Commerce banquet is this Saturday, March 8.

Mr. Thomas stated that the Metropolitan North Georgia Water Planning District's Regional Toilet Rebate program has started. The Authority's program went live about a month ago and we have given thirty to forty (30 to 40) rebates.

Our Employee Health Fair will be held on Thursday, March 20, from 9:00 a. m. to 4 p. m. This year a new benefit called Flexible Spending Plan is being offered. The employee will be able to allocate pre-tax funds up to thirteen hundred dollars ($1,300) per year (May 1 through April 30) into this fund. This program will be administered by a third party benefit company who will charge the Authority five dollars and fifty cents ($5.50) per employee per month. All funds in this Flexible Spending Plan must be used before the end of the year or the employee will lose those funds. Mandatory meetings have been scheduled for employees to learn more about this additional benefit being offered.

Mr. Thomas mentioned that the AWWA conference in Atlanta will be held in June and we will be attending the Exhibits on Monday, June 9th.

Mr. Thomas reminded the Board that the April 3rd Regular Board meeting will be held at Callaway Gardens at 1:30 p.m. and will include presentation of the Budget. On Friday, April 4th at 9:00 a.m. the Board will discuss and consider the adoption of the revised Policy Manual.

Upon Motion by Lloyd Joiner and seconded by John Chafin it was unanimously

RESOLVED: to adjourn the regular session board meeting.

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

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Pete McQueen, Chairman Walter Marie Barber, Secretary/Treasurer