

**SCANNED**  
Date: 4/23/10

TYLER COUNTY COMMISSIONERS COURT  
SPECIAL MEETING  
April 13, 2010 ---- 1:30 p.m.

THE STATE OF TEXAS                      ON THIS THE 13<sup>th</sup> day of April, 2010 the  
Commissioners' Court in and for Tyler County, Texas convened in a Special Meeting at  
the Commissioners' Courtroom in Woodville, Texas, the following members of the Court  
present, to wit:

JACQUES L. BLANCHETTE	COUNTY JUDGE, Presiding
MARTIN NASH	COMMISSIONER, PCT. #1
RUSTY HUGHES	COMMISSIONER, PCT. #2
MIKE MARSHALL	COMMISSIONER, PCT. #3
JACK WALSTON	COMMISSIONER, PCT. #4

The following were absent: none    thereby constituting a quorum. In addition to the  
above were:

JOE SMITH                                      CRIMINAL DISTRICT ATTORNEY

David Waxman presented an update as to the status of the FY-2008 TCDP Water  
Improvement Project (CDBG Fred Water Well Project), Contract #728410, in the Fred  
area. Commissioner Nash expressed the need to get the project completed by the  
deadline, so that the county can apply for other projects.

Court took a 15 minute break at 2:50 p.m.  
COURT BACK IN SESSION: 3:07 p.m.:

A motion was made by **Commissioner Marshall** and seconded by **Commissioner  
Walston** to give **Tyler County Water Supply Corporation** the opportunity to change  
their project to get it finished so that the county can proceed with other plans to help  
"Cypress Creek". Commissioner Marshall commented the project needs to be finished  
by September 30<sup>th</sup> because the county has other water companies that also need  
assistance. Judge Blanchette requested Jerry Lovelady give an update to the court on a  
monthly basis as to the status of this project. All commissioners expressed their concern  
that this project go forward and get completed. All voted yes and none no.

**Commissioner Walston** made a motion to adjourn. **Commissioner Nash** seconded the  
motion. All voted yes and none no.

THERE BEING NO FURTHER BUSINESS, THE MEETING ADJOURNED.

I, Donece Gregory, County Clerk and ex officio member of the Tyler County  
Commissioners Court, do hereby certify to the fact that the above is a true and correct  
record of the Tyler County Commissioners Court session held on April 13, 2010.

Witness my hand and seal of office on this the 20th day of April, 2010.

Attest:   
Donece Gregory, County Clerk, Tyler County, Texas

4/13/10 SIGN IN SHEET

<u>Name</u>	<u>Rep</u>	<u>Phone</u>
David J. Wynn	County	409/384-3458
JOE K. SMITH, DA.	County	409/283-813
Jim Boone	TyCo Water Supply	837-5689
JERRY LOVELADY	TCWSC	409-429-3994
BILL KOTLAN, Bldg Assoc for TCWSC		936/718-5920 cell
SAM VERNON	Bldg Associates for TCWSC	979.268.1125 off.
BERTIS W. BEST	Cypress Creek WSC	409-283-5751
Robyn Summerlin	CCWSC	409-283-3561

- MARTIN NASH, PCT. 1 COMMISSIONER
- RUSTY HUGHES, PCT. 2 COMMISSIONER
- MIKE MARSHALL, PCT. 3 COMMISSIONER
- JACK WALSTON, PCT. 4 COMMISSIONER
- JACQUES L. BLANCHETTE, COUNTY JUDGE

**TYLER COUNTY**  
**FY-2008 TCDP WATER IMPROVEMENTS PROJECT/FRED AREA**  
**TCDP CONTRACT NUMBER: 728410**  
**CONTRACT PERIOD: 6/22/2008 TO 6/21/2010**  
**ACCOUNT NUMBER:**

**FUNDS:**  
**ORCA: \$ 250,000.00**  
**LOCAL: \$ 83,000.00**  
**\$ 333,000.00**

**REPORT DATE: 1/24/2009**

**INCLUDES DRAWDOWN NO. 00-1**

<u>PROJECT ACTIVITY</u>	<u>APPROVED BUDGET</u>	<u>EXPENDED</u>	<u>BALANCE</u>	<u>OBLIGATED UNEXPENDED</u>	<u>ACTUAL BALANCE</u>	<u>ADJUSTED BALANCE</u>
1A. Water Facilities						
ORCA	\$ 217,000.00	\$ 0.00	\$ 217,000.00	\$ 0.00	\$ 217,000.00	\$ 217,000.00
LOCAL	\$ 53,000.00	\$ 0.00	\$ 53,000.00	\$ 0.00	\$ 53,000.00	\$ 53,000.00
24.) Acquistiton	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
30.) Engineering	\$ 30,000.00	\$ 16,000.00	\$ 14,000.00	\$ 14,000.00	\$ 0.00	\$ 0.00
32.) Administration						
ORCA	\$ 33,000.00	\$ 0.00	\$ 33,000.00	\$ 33,000.00	\$ 0.00	\$ 0.00
	<b>\$ 333,000.00</b>	<b>\$ 16,000.00</b>	<b>\$ 317,000.00</b>	<b>\$ 47,000.00</b>	<b>\$ 270,000.00</b>	<b>\$ 270,000.00</b>

**CONTRACTS:**

Administration: David J. Waxman, Inc. \$ 33,000.00  
 Engineering: Goodwin - Lasiter \$ 30,000.00

WATER LINE PROJECT (SPURGER TO FRED WATER PLANT) (37,000 Lf.)

Cost Estimates

	<u>G/L</u>	<u>C/B</u>
1.) Material Cost & Valves	\$162,175.00	\$168,250.00
2.) Bores	\$35,000.00	\$67,500.00
3.) Engineering	\$146,900.00	\$52,000.00
4.) District Cost		
a.) Personal Cost	\$40,712.00	\$40,712.00
b.) Equipment Cost	<u>\$31,500.00</u>	<u>\$31,500.00</u>
	\$416,287.00	\$359,962.00

Administrative Cost - \$33,000.00 (Environmental to be done by \_\_\_\_\_ \$10,000.00)  
 (\$426,287.00) (\$369,962.00)

FRED WATER WELL – SEE COST ESTIMATES ATTACHED

Revenues	GRANT	LOCAL	EXPENDED
1. Grant Funds for Construction	\$217,000.00	\$53,000.00	\$0.00
2. Acquisition	\$0.00	\$0.00	\$0.00
3. Engineering(73,300.00)	\$0.00	\$57,300.00	\$16,000.00
4. Administration	<u>\$33,000.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
	\$250,000.00	\$110,300.00	\$16,000.00

TOTAL - \$376,300.00

\*Required Match \$83,000.00  
 Current Match \$126,300.00

RECOMMENDED BUDGET

Cash -	\$363,750.00	1. Material Cost & Values	\$168,250.00 ←
In-Kind -	<u>\$72,272.00</u>	2. Bores	\$67,500.00
	★ <u>\$435,962.00</u>	3. Engineering	\$85,000.00
		4. District Cost	
Cash – CDBG -	\$250,000.00	a. Personal	\$40,712.00 (in kind)
District -	<u>\$113,750.00</u>	b. Equipment	\$31,500.00 (in kind)
In-Kind – District -	\$72,212.00	★5. Administration	\$33,000.00
		6. Environmental by _____	<u>\$10,000.00</u>
			\$435,962.00

WATER LINE PROJECT (SPURGER TO FRED WATER PLANT) (50,500 LF.)

Cost Estimates

	<u>G/L</u>	<u>C/B</u>
1.) Material Cost & Valves	\$262,175.00	\$168,250.00
2.) Bores	\$35,000.00	\$67,500.00
3.) Engineering	\$146,900.00	\$52,000.00
4.) District Cost		
a.) Personal Cost	\$40,712.00	\$40,712.00
b.) Equipment Cost	<u>\$31,500.00</u>	<u>\$31,500.00</u>
	\$516,287.00	\$359,962.00
Administrative Cost - \$33,000.00 (Environmental to be done by Carroll & Blackman, Inc. \$10,000.00)		
	\$559,287.00	\$402,962.00

FRED WATER WELL – SEE COST ESTIMATES ATTACHED

Revenues	GRANT	LOCAL	EXPENDED
1. Grant Funds for Construction	\$217,000.00	\$53,000.00	\$0.00
2. Acquisition	\$0.00	\$0.00	\$0.00
3. Engineering(73,300.00)	\$0.00	\$57,300.00	\$16,000.00
4. Administration	<u>\$33,000.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
	\$250,000.00	\$110,300.00	\$16,000.00

TOTAL - \$376,300.00

*Required Match	\$83,000.00
Current Match	\$126,300.00

RECOMMENDED BUDGET

Cash -	\$330,750.00	1. Material Cost & Values	\$168,250.00
In-Kind -	<u>\$72,272.00</u>	2. Bores	\$67,500.00
	\$402,962.00	3. Engineering	\$52,000.00 (max)
		4. District Cost	
Cash – CDBG -	\$250,000.00	a. Personal	\$40,712.00 (in kind)
District -	\$80,750.00	b. Equipment	\$31,500.00 (in kind)
In-Kind – District -	\$72,212.00	5. Administration	\$33,000.00
		6. Environmental by C & B	<u>\$10,000.00</u>
			\$402,962.00

## David Waxman

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**From:** generalmanager@tylercountywater.com  
**Sent:** Thursday, March 18, 2010 11:07 AM  
**To:** davidjwaxman@sbcglobal.net  
**Cc:** bkotlan@bleylengineering.com  
**Subject:** Line Installation Estimate

DAVID WAXMAN:

After completing a "trial trench and cover up," it is estimated that we would be able to install about 900 feet per day (10 hour day), or about 3,600 feet per week (this assumes a 4-day work-week and uninterrupted work on the water main installation). Subsequently, and without any interruptions, it is estimated that this Force Account Project would be completed in approximately ten (10) weeks. However, as we discussed earlier, it is not reasonable to assume that we will never have to close down the water main installation project to attend to other matters (repairs, taps, etc.), and therefore, it is difficult to give an accurate estimate of the actual time period for this Project. If we started tomorrow, I believe that we could finish prior to September, but that is not (of course) a realistic commencement date.

We have hired a New Engineer (Bleyl & Associates – Bill Kotlan, PE), and I hope that you have his card that I left yesterday. I recommend (if possible) that Mr. Kotlan take over the Engineering for the ORCA Grant that has been allocated (via Tyler County) to the Tyler County Water Supply Corporation; in conversing with Mr. Kotlan, it is my "understanding" that he has been the Engineer for other ORCA Grant Fund Projects.

Please let me know when the Commissioners Court date is set to discuss this Project. I have discussed this with my Board of Directors, and they will certainly make time to attend this meeting as necessary. Should Mr. Kotlan also attend this meeting?

Thank you for your continued assistance with this matter.

Jerry Lovelady

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**David J. Waxman**

**From:** Pat Oates [poates@goodwinlasiter.com]  
**Sent:** Tuesday, June 17, 2008 8:39 AM  
**To:** 'Jacques Blanchette'; tcwatersupply@sbcglobal.net  
**Cc:** 'David Waxman'; 'Mike Walker'  
**Subject:** FY 2008 TCDP Water Project / Preliminary Revised Budget

Jacques, Trey and David – Many thanks for your selection of Goodwin-Lasiter, Inc. to provide the engineering services on the new project.

As discussed during the proposal phase, we believe it is necessary to revise the budget of the project. Based on our review of the original budget and experiences with wells and water plant work, the project is grossly under estimated. This pertains to both construction and engineering cost. We are sending out the engineering contract to David today.

I have attached a Cost Estimate for both elements of the project. Once we get into Preliminary Engineering we will refine this estimate. This estimate is based on recent conversations with local well drillers, plant contractors and recent bids for similar work.

Once you have had a chance to review, we can meet with you all to get the project planned.

Thank you for you assistance.

Sincerely,



**Pat G. Oates, P.E.**  
**Goodwin-Lasiter, Inc.**  
**1609 S. Chestnut, Suite 202**  
**Lufkin, Texas 75901**  
**(936) 637-4900 Tel.**  
**(936) 637-6330 Fax**  
**poates@goodwinlasiter.com**

203024, 2.0 (W/Att.)

6/17/2008

**TYLER COUNTY**  
**Tyler County WSC**  
**2008 TCDP Water Project (Fred Water Well Plant)**

Example pricing	Example pricing
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Part I: Pilot Test Hole							
ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT (\$)	UNIT PRICE	AMOUNT (\$)
1	Mobilization & Set-up Incl. Temporary Access	1	LS	\$18,000.00	\$18,000.00		
2	Pilot Test Hole	550	LF	\$30.00	\$16,500.00		
3	Mechanical Sieve Analysis	20	EA	\$12.00	\$240.00		
4	Electric Log/Alignment Surveys	550	LF	\$6.00	\$3,300.00		
5	Test Hole Pumping and Water Sample w/ Compl Chem Analysis	1	EA	\$36,000.00	\$36,000.00		
<b>TOTAL PACKAGE "A" PART I</b>					<b>\$74,040.00</b>		<b>(No Bid)</b>
Part II: Well #8 Well Construction							
6	18" Surface Casing x 25' Long	1	EA	\$12,000.00	\$12,000.00		
7	Ream Well from Surface to Bottom	550	LF	\$96.00	\$52,800.00		
8	14" Main Casing	610	LF	\$72.00	\$36,720.00		
9	8" Blank Liner	150	LF	\$16.80	\$2,520.00		
10	8" Stainless Steel Screen	40	LF	\$150.00	\$6,000.00		
11	24" Diameter Underream	40	LF	\$420.00	\$16,800.00		
12	Caliper Log Survey	1	EA	\$6,000.00	\$6,000.00		
13	Gravel Filter Pack	5	CY	\$240.00	\$1,200.00		
14	Well Development	1	LF	\$36,000.00	\$36,000.00		
15	Extended Pump Test	36	HR	\$480.00	\$17,280.00		
<b>TOTAL PACKAGE "A" PART II</b>					<b>\$187,320.00</b>		<b>(No Bid)</b>
Part III: Well #6 Pump & Motor							
16	Pump Setting	320	LF	\$12.00	\$3,840.00		
17	6" Std Wt Steel Pump Column	320	LF	\$21.60	\$6,912.00		
18	Pump Stages	8	EA	\$480.00	\$3,840.00		
19	Pump Motor Drive - 5 HP Increments (40 HP Assumed)	8	EA	\$600.00	\$4,800.00		
20	Wellhead Surface Block, Airline, Electrical to Surface	1	LS	\$9,600.00	\$9,600.00		
21	Well Pump Control Panel	1	LS	\$4,200.00	\$4,200.00		
<b>TOTAL PACKAGE "A" PART III</b>					<b>\$33,192.00</b>		<b>(No Bid)</b>
<b>TOTAL ESTIMATE: PACKAGE "A"</b>					<b>\$294,552.00</b>		<b>(No Bid)</b>

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT (\$)	UNIT PRICE	AMOUNT (\$)
1	Plant Sitework Incl. Clearing, Grading, Drainage, Erosion Ctrl, & Rel.	1	LS		\$0.00	\$18,240.00	\$18,240.00
2	Gravel Yard & Access Drive	1	LS		\$0.00	\$27,720.00	\$27,720.00
3	5,000 Gal. Hydropneumatic Tank	1	LS		\$0.00	\$32,000.00	\$32,000.00
4	50,000 Gal. Galv. Bolted Ground Storage Tank (Add 35%)	1	LS		\$0.00	\$75,000.00	\$75,000.00
5	Plant & Wellhead Piping	1	LS		\$0.00	\$30,000.00	\$30,000.00
6	Yard Piping	1	LS		\$0.00	\$48,720.00	\$48,720.00
7	CMU Building & Fndn	1	LS		\$0.00	\$87,120.00	\$87,120.00
8	Booster Pumps, Motors, & Manifold	2	EA		\$0.00	\$18,800.00	\$33,600.00
9	Chlorination System	1	LS		\$0.00	\$23,520.00	\$23,520.00
10	Polyphosphate Iron Sequestering System	1	LS		\$0.00	\$6,480.00	\$6,480.00
11	Electrical & Ctrls	1	LS		\$0.00	\$48,960.00	\$48,960.00
12	6 Ft Manproof Fencing	690	LF		\$0.00	\$27.60	\$19,044.00
13	Interconnect Proposed 12" to Exist. 6" w/ 6" TS&V	1	LS		\$0.00	\$3,600.00	\$3,600.00
14	Interconnect Proposed 12" to Exist. 3" w/ Tapping Saddle & 3" GV	1	LS		\$0.00	\$2,400.00	\$2,400.00
15	22" Std Wt Steel Casing, Inst. by Boring	45	LF		\$0.00	\$240.00	\$10,800.00
16	Piping Modifications at Fred Plant	1	LS		\$0.00	\$9,000.00	\$9,000.00
17	Laboratory Testing Allowance	1	LS		\$0.00	\$2,400.00	\$2,400.00
18	Site Clean-up, Seeding, and Fertilization	1	LS		\$0.00	\$3,840.00	\$3,840.00
<b>TOTAL ESTIMATE PACKAGE "B"</b>					<b>(No Bid)</b>	<b>\$482,444.00</b>	

**\$776,996.00**

<b>Engineering Budget</b>	
Basic Engineering ("B")	\$ 50,000.00
Design Survey	\$ 8,800.00
Bid Phase	\$ 5,000.00
Construction Phase	\$ 9,500.00
	<b>\$ 73,300.00</b>



**TYLER COUNTY**  
**Tyler County WSC**  
**2008 TCDP Water Project (Fred Water Well Plant)**

		Example pricing	Example pricing				
<b>PACKAGE "A" Water Well Construction</b>							
<b>Part I: Pilot Test Hole</b>							
ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT (\$)	UNIT PRICE	AMOUNT (\$)
1	Mobilization & Set-up Incl. Temporary Access	1	LS	\$18,000.00	\$18,000.00		
2	Pilot Test Hole	550	LF	\$30.00	\$16,500.00		
3	Mechanical Sieve Analysis	20	EA	\$12.00	\$240.00		
4	Electric Log/Alignment Surveys	550	LF	\$6.00	\$3,300.00		
5	Test Hole Pumping and Water Sample w/ Compl Chem Analysis	1	EA	\$36,000.00	\$36,000.00		
<b>TOTAL PACKAGE "A" PART I</b>					<b>\$74,040.00</b>		(No Bid)
<b>Part II: Well #6 Well Construction</b>							
6	18" Surface Casing x 25' Long	1	EA	\$12,000.00	\$12,000.00		
7	Ream Well from Surface to Bottom	550	LF	\$96.00	\$52,800.00		
8	14" Main Casing	510	LF	\$72.00	\$36,720.00		
9	8" Blank Liner	150	LF	\$16.80	\$2,520.00		
10	8" Stainless Steel Screen	40	LF	\$150.00	\$6,000.00		
11	24" Diameter Underream	40	LF	\$420.00	\$16,800.00		
12	Caliper Log Survey	1	EA	\$6,000.00	\$6,000.00		
13	Gravel Filter Pack	5	CY	\$240.00	\$1,200.00		
14	Well Development	1	LF	\$36,000.00	\$36,000.00		
15	Extended Pump Test	36	HR	\$480.00	\$17,280.00		
<b>TOTAL PACKAGE "A" PART II</b>					<b>\$187,320.00</b>		(No Bid)
<b>Part III: Well #6 Pump &amp; Motor</b>							
16	Pump Setting	320	LF	\$12.00	\$3,840.00		
17	6" Std Wt Steel Pump Column	320	LF	\$21.60	\$6,912.00		
18	Pump Stages	8	EA	\$480.00	\$3,840.00		
19	Pump Motor Drive - 5 HP Increments (40 HP Assumed)	8	EA	\$600.00	\$4,800.00		
20	Wellhead Surface Block, Airline, Electrical to Surface	1	LS	\$9,600.00	\$9,600.00		
21	Well Pump Control Panel	1	LS	\$4,200.00	\$4,200.00		
<b>TOTAL PACKAGE "A" PART III</b>					<b>\$33,192.00</b>		(No Bid)
<b>TOTAL ESTIMATE: PACKAGE "A"</b>					<b>\$294,552.00</b>		(No Bid)

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT (\$)	UNIT PRICE	AMOUNT (\$)
1	Plant Sitework incl. Clearing, Grading, Drainage, Erosion Ctrl, & Rel.	1	LS		\$0.00	\$18,240.00	\$18,240.00
2	Gravel Yard & Access Drive	1	LS		\$0.00	\$27,720.00	\$27,720.00
3	5,000 Gal. Hydro pneumatic Tank	1	LS		\$0.00	\$32,000.00	\$32,000.00
4	50,000 Gal. Galv. Bolted Ground Storage Tank (Add 35%)	1	LS		\$0.00	\$75,000.00	\$75,000.00
5	Plant & Wellhead Piping	1	LS		\$0.00	\$30,000.00	\$30,000.00
6	Yard Piping	1	LS		\$0.00	\$48,720.00	\$48,720.00
7	CMU Building & Fndn.	1	LS		\$0.00	\$87,120.00	\$87,120.00
8	Booster Pumps, Motors, & Manifold	2	EA		\$9,000.00	\$16,800.00	\$33,600.00
9	Chlorination System	1	LS		\$0.00	\$23,520.00	\$23,520.00
10	Polyphosphate Iron Sequestering System	1	LS		\$0.00	\$6,480.00	\$6,480.00
11	Electrical & Ctrls	1	LS		\$0.00	\$48,960.00	\$48,960.00
12	6 Ft Manproof Fencing	690	LF		\$0.00	\$27.60	\$19,044.00
13	Interconnect Proposed 12" to Exist. 6" w/ 6" TS&V	1	LS		\$0.00	\$3,600.00	\$3,600.00
14	Interconnect Proposed 12" to Exist. 3" w/ Tapping Saddle & 3" GV	1	LS		\$0.00	\$2,400.00	\$2,400.00
15	22" Std Wt Steel Casing, Inst. by Boring	45	LF		\$0.00	\$240.00	\$10,800.00
16	Piping Modifications at Fred Plant	1	LS		\$0.00	\$9,000.00	\$9,000.00
17	Laboratory Testing Allowance	1	LS		\$0.00	\$2,400.00	\$2,400.00
18	Site Clean-up, Seeding, and Fertilization	1	LS		\$0.00	\$3,840.00	\$3,840.00
<b>TOTAL ESTIMATE PACKAGE "B"</b>					(No Bid)	<b>\$482,444.00</b>	

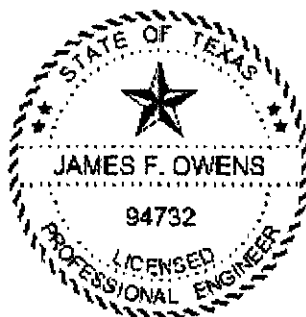
**\$776,996.00**

Engineering Budget	
Basic Engineering ("B")	\$ 50,000.00
Design Survey	\$ 8,800.00
Bid Phase	\$ 5,000.00
Construction Phase	\$ 9,500.00
	<b>\$ 73,300.00</b>

**TABLE 2 - BUDGET JUSTIFICATION**

Act	Materials/Facility	\$/Unit	Unit	Qty	Construction \$	Acquisition \$	Eng./Arch. \$	Ttl. Act. \$
<b>1a</b>	<b>Water System Materials</b>							
	8" PR160 Water Main	4.75	LF	50,500	\$ 239,875.00			
	8" Valve and Box	700.00	EA	10	\$ 7,000.00			
	Main Line Fittings, Tees, Bends, Etc.	5,000.00	LS	1	\$ 5,000.00			
	Post Mounted Water Valve/Line Markers	10.00	EA	60	\$ 600.00			
	80# Sack Concrete for Thrust Blocking	500.00	LS	1	\$ 500.00			
	Asphalt Millings	40.00	TON	30	\$ 1,200.00			
	Gravel Base for Drive Repair	40.00	TON	200	\$ 8,000.00			
	Labor & Equipment provided by Tyler Co. WSC. Installation of waterlines assumed to be in Public Right-of-Way or in existing easement.							
	<b>MATERIALS TOTAL</b>				\$ 262,175.00			\$ 262,175.00
<b>1a</b>	<b>Water System Improvements</b>							
	8" PR160 PVC, Slick Bore	50.00	LF	500	\$ 25,000.00			
	16" Steel Casing, Dry Bore	125.00	LF	80	\$ 10,000.00			
	<b>CONSTRUCTION TOTAL</b>				\$ 35,000.00			\$ 35,000.00
<b>30</b>	<b>Engineering</b>							
	Preliminary Engineering						\$ 7,500.00	
	Basic Engineering						85,000.00	
	Design Surveying						37,900.00	
	Bid Phase Services						6,500.00	
	Construction Phase Services						10,000.00	
							\$ 146,900.00	\$ 146,900.00

<b>Totals:</b>	\$ 297,175.00	\$ 146,900.00	\$ 444,075.00
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*James F. Owens*

SIGNATURE OF REGISTERED ENGINEER RESPONSIBLE FOR BUDGET JUSTIFICATION

PHONE NUMBER: (936) 637-4900

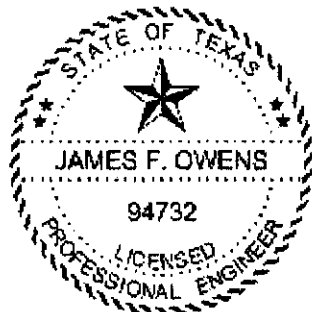
DATE: 2/12/2010

**TYLER CO. - 2008 TCDP GRANT RE-SCOPE**

**TABLE 2 - BUDGET JUSTIFICATION**

Act	Materials/Facility	\$/Unit	Unit	Qty	Construction \$	Acquisition \$	Eng./Arch. \$	Ttl. Act. \$
<b>1a</b>	<b>Water System Improvements</b>							
	8" PR160 PVC	20.00	LF	50,500	\$ 1,010,000.00			
	8" Gate Valve & Box	1,200.00	LF	10	\$ 12,000.00			
	8" PR160 PVC, Slick Bore	50.00	LF	350	\$ 17,500.00			
	16" Steel Casing, Dry Bore	125.00	LF	80	\$ 10,000.00			
	Interconnect 8" to 6"	3,500.00	EA	4	\$ 14,000.00			
	Concrete/Asphalt Pavement Repair	60.00	EA	500	\$ 30,000.00			
	Gravel Pavement Repair	30.00	LF	1,500	\$ 45,000.00			
	Dress-up & Seed/Fertilize	125.00	STA	505	\$ 63,125.00			
	<b>CONSTRUCTION TOTAL</b>				\$ 1,201,625.00			\$ 1,201,625.00
	Installation of Waterlines assumed to be in public Right-of-Way or in existing easement.							
<b>30</b>	<b>Engineering</b>							
	Preliminary Engineering						\$ 7,500.00	
	Basic Engineering						85,000.00	
	Design Surveying						37,900.00	
	Bid Phase Services						6,500.00	
	Construction Phase Services						10,000.00	
							\$ 146,900.00	\$ 146,900.00

<b>Totals:</b>	\$ 1,201,625.00	\$ 146,900.00	\$ 1,348,525.00
----------------	-----------------	---------------	-----------------



*James F. Owens*

SIGNATURE OF REGISTERED ENGINEER RESPONSIBLE FOR BUDGET JUSTIFICATION

PHONE NUMBER: (936) 637-4900

DATE: 2/12/2010

**TYLER CO. - 2008 TCDP GRANT RE-SCOPE**



# Tyler County Water Supply Corporation

P.O. DRAWER 138  
SPURGER, TEXAS 77660  
TELEPHONE 409/429-3994

February 15, 2010

TO: David Waxman FAX # 409-384-5719 page 1 of 1  
David Waxman, Inc.

FROM: Jerry Lovelady  
Tyler County WSC

SUBJECT: Estimates – Personnel & Equipment (Hwy 92 Project)

The estimates for Personnel are based on FEMA's "Personnel Cost Calculation Sheet" (Adjusted Hourly Rate), with the estimated Equipment Costs stemming from the "FEMA Equipment Rates."

It is estimated that the time period necessary for the completion of this Project, by the Tyler County WSC Force Account, will be approximately fourteen (14) weeks. It would, therefore, be beneficial if the Project Start Date could commence as soon as possible.

### ESTIMATED PERSONNEL COSTS

1 Field Supervisor = 1 x 14 x 40 x \$24.70	=	\$13,832
3 Operators = 3 x 14 x 40 x \$16.00	=	\$26,880
	Subtotal	= \$40,712

### ESTIMATED EQUIPMENT COSTS

# 8280 Excavator = 1 x 14 x 40 x \$21.00	=	\$11,760
# 8802 Truck = 1 x 14 x 40 x \$25.00	=	\$14,000
# 8600 Trailer = 1 x 14 x 40 x \$10.25	=	\$ 5,740
	Subtotal	= \$31,500
	TOTAL	= \$72,212

Please contact me with any questions or comments or if you need additional information. Thank you for your continued assistance.

Jerry Lovelady  
General Manager

**TYLER COUNTY**  
**FY-2008 TCDP WATER IMPROVEMENTS PROJECT/FRED AREA**  
**TCDP CONTRACT NUMBER: 728410**  
**CONTRACT PERIOD: 6/22/2008 TO 6/21/2010**  
**ACCOUNT NUMBER:**

**FUNDS:**  
**ORCA: \$ 250,000.00**  
**LOCAL: \$ 83,000.00**  
**\$ 333,000.00**

REPORT DATE: 1/24/2009

INCLUDES DRAWDOWN NO. 00-1

<u>PROJECT ACTIVITY</u>	<u>APPROVED BUDGET</u>	<u>EXPENDED</u>	<u>BALANCE</u>	<u>OBLIGATED UNEXPENDED</u>	<u>ACTUAL BALANCE</u>	<u>ADJUSTED BALANCE</u>
1A. Water Facilities						
ORCA	\$ 217,000.00	\$ 0.00	\$ 217,000.00	\$ 0.00	\$ 217,000.00	\$ 217,000.00
LOCAL	\$ 53,000.00	\$ 0.00	\$ 53,000.00	\$ 0.00	\$ 53,000.00	\$ 53,000.00
24.) Acquistiton	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
30.) Engineering	\$ 30,000.00	\$ 16,000.00	\$ 14,000.00	\$ 14,000.00	\$ 0.00	\$ 0.00
32.) Administration						
ORCA	\$ 33,000.00	\$ 0.00	\$ 33,000.00	\$ 33,000.00	\$ 0.00	\$ 0.00
	<u>\$ 333,000.00</u>	<u>\$ 16,000.00</u>	<u>\$ 317,000.00</u>	<u>\$ 47,000.00</u>	<u>\$ 270,000.00</u>	<u>\$ 270,000.00</u>

**CONTRACTS:**

Administration: David J. Waxman, Inc. \$ 33,000.00  
 Engineering: Goodwin - Lasiter \$ 30,000.00

INTER-GOVERNMENTAL AGREEMENT  
BETWEEN  
COUNTY OF TYLER  
AND  
TYLER COUNTY WATER SUPPLY CORPORATION

STATE OF TEXAS

COUNTY OF TYLER

This Agreement between the COUNTY OF TYLER, TEXAS, whose address is, 100 West Bluff Street, #102, Woodville, Texas 75979 hereinafter referred to as "County" and the TYLER COUNTY WATER SUPPLY CORPORATION whose address is P. O. Drawer 138, Spurger, Texas 77660 hereinafter referred to as "WSC", is as follows:

WHEREAS, the County was awarded a FY 2007/2008 Texas Community Development Block Grant Contract 728410 from the Texas Department of Rural Affairs in the amount of \$250,000.00 on behalf of the WSC; and

WHEREAS, the WSC has agreed by Resolution to provide all local matching funds (a minimum of \$83,000.00), a copy of the resolution of which is marked Exhibit "A", and attached hereto and incorporated herein for all purposes; and

WHEREAS, the TXCDBG contract amendment will install a major water line from the Spurger Water System to the Fred Water System area, in lieu of developing a new water will for the Fred service area; and

WHEREAS, the County and WSC are desirous of working toward water system improvements in the Fred area in an orderly and responsible fashion; and

WHEREAS, the County and WSC are desirous of reducing to writing certain duties and obligations between the parties hereto:

FOR AND IN CONSIDERATION of the mutual benefits flowing to the WSC as well as the County as a result of the application by the County and the receipt of a contract award under the Texas Community Development Block Grant Program and in consideration of Ten Dollars (\$10.00) and other good and valuable considerations the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. In the event the County should incur any costs at the request or under the direction of/or approved by the WSC which is determined by the Texas Department of Rural Affairs to exceed actual or reasonable costs for performances rendered under said Texas Community Development Program Contract, the WSC will be responsible and pay for any such costs on or before thirty (30) days from the date of notice and demand for payment of same with the County providing a copy of the paid receipt or invoice in question.

2. The Project Engineer shall coordinate with the County and WSC all plans and specifications.
3. Prior to the bidding process, the Project Engineer shall submit required action letter and/or plans and specifications to the County, Texas Commission on Environmental Quality and the WSC for approval.
4. The County shall fully and satisfactorily perform all of the conditions and obligations of the County as contractor under the terms of the TxCDBG Contract.
5. The WSC will fully and satisfactorily perform all of its obligations under the terms of this contract.
6. The County shall submit such reports as are required under Section 8 of the TxCDBG Contract. The WSC shall timely provide the County with all information and documents in the possession of the WSC necessary for such required reports of the County. Should the WSC fail to timely furnish any such information or documents in the possession of the WSC following timely request for same, should the County incur any expenses or damages whatsoever as a result of the WSC failing to timely furnish such information necessary to comply with the reporting requirements of said TxCDBG Disaster Contract then the District shall be required to repay such expenses to the WSC County and otherwise indemnify the WSC for any loss or damages sustained as a result thereof.
7. The WSC hereby agrees to indemnify and hold harmless the County against any and all claims, demands, causes of action of every kind or character which may be asserted by the Office of Rural Community Affairs, an agency of the State of Texas, occurring or in any way incident to, arising out of, or in connection with the services to be performed by the WSC under this Contract.
8. In the event of the termination of the TxCDBG CONTRACT for any grounds other than the negligence or intentional violation of the TxCDBG CONTRACT by the County resulting in said termination, the WSC shall indemnify and hold harmless the County for any and all claims, demands, damages, or other causes of action asserted by any subcontractors or suppliers or others, as a result of any contract entered into by and between the County and any said subcontractors or others as a result of the award of said TxCDBG CONTRACT to the County.
9. The County and/or the WSC may terminate this Contract in whole or in part at either of the following times: (1) Upon notification by the Department of the termination of said TxCDBG CONTRACT, or (2) upon a violation of the terms of the Contract by other party.
10. The parties expressly agree that the County requested and obtained the partial amount allocated for this proposed TxCDBG Supplemental Disaster Recovery Grant at the request of the WSC for the benefit of the citizens in the project area. Therefore, it is expressly agreed that any expenses or damages suffered by the County as a result of said project under the TxCDBG Contract or grant, other than such damages or

unreasonable expenses which are incurred as a result of the intentional conduct of the County, shall be paid by the WSC All said additional expenses not covered by the allocated grant funds shall be paid for by the WSC.

11. The parties further agree that all land purchases and improvements placed thereon, and all water facility improvements acquired by funds from said TxCDBG CONTRACT and/or purchased or provided by the WSC shall be conveyed in fee simple to the WSC by the County upon completion of the grant contract. In consideration therefore, the WSC agrees and will assume all legal responsibilities and obligations connected with the improvements and operation of said water facilities.
12. This is a good faith effort between the County and the WSC to accommodate and assist the citizens of the County of Tyler by providing additional water facilities to the project target area and each of the entities here do pledge their best efforts to fulfill the obligation set forth herein as well as the obligations and requirements set forth in said TxCDBG Contract awarded by the Texas Department of Rural Affairs.

COUNTY OF TYLER

WITNESS OUR HANDS effective this \_\_\_\_ day of \_\_\_\_\_, 2010.

\_\_\_\_\_  
Jacques Blanchette, County Judge  
County of Tyler

ATTEST:

\_\_\_\_\_  
Donece Gregory, County Clerk  
County of Tyler

TYLER COUNTY WATER SUPPLY CORPORATION

WITNESS OUR HANDS effective this 16<sup>th</sup> day of February, 2010.

\_\_\_\_\_  
Frank Gaddis, President  
TYLER COUNTY WATER SUPPLY CORPORATION

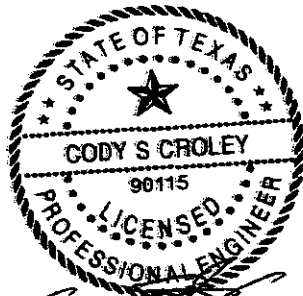
ATTEST:

\_\_\_\_\_  
Jim Boone, Secretary  
TYLER COUNTY WATER SUPPLY CORPORATION



# **TYLER COUNTY WATER SUPPLY CORPORATION**

## **FRED & SPURGER PRESSURE PLANE HYDRAULIC ANALYSIS**



*[Handwritten Signature]*  
3/4/10

PREPARED BY

**CARROLL & BLACKMAN, INC.**  
**CONSULTING ENGINEERS**  
3120 Fannin Street  
Beaumont, Texas 77701  
Texas Registered Engineering Firm F-001054

February 2010

**TABLE OF CONTENTS**

I INTRODUCTION ..... PAGE 3  
II GROWTH AND WATER USAGE ..... PAGE 4  
III EXISTING WATER DISTRIBUTION SYSTEM ..... PAGE 5  
IV IMPROVEMENT AND COST ESTIMATE ..... PAGE 8

**TABLES**

TABLE 1 MODEL RESULTS - EXISTING PRESSURES  
TABLE 2 MODEL RESULTS - PROPOSED PRESSURES  
TABLE 3 IMPROVEMENTS A COST ESTIMATES

**EXHIBITS**

EXHIBIT A MAP OF IMPROVEMENTS A

**I. INTRODUCTION**

**A. GENERAL**

The Tyler County Water Supply Corporation (TCWSC) is located in Southeast Texas. TCWSC owns and maintains its own water supply system and is made up of six (6) different pressure planes:

- (1) Dam-B and Highway 190 Booster Station
- (2) Spurger
- (3) Fred
- (4) Hillister
- (5) Dies
- (6) Rockland

TCWSC is currently in violation of TCEQ's minimum capacity requirements in four of the six pressure planes per the TCEQ's Beaumont regional site visits. In an effort to maintain its system in compliance with the Texas Commission on Environmental Quality (TCEQ) rules and regulations, TCWSC commissioned a study of its water distribution system in order to determine project alternatives that will bring the water system into compliance with the TCEQ's minimum capacity requirements, identify system deficiencies, and in providing water for the next 20 years.

**B. SCOPE OF STUDY**

The purpose of this study was to provide TCWSC with a Hydraulic Analysis and Water Master Plan to be used as a planning guide for the construction of water distribution system improvements and to meet the system needs for the design period.

The scope of this study is as follows:

1. Identify capacities and deficiencies of the existing six pressure planes;
2. Estimate the current and future number of connections and related demands for the existing six pressure planes;
3. Determine existing deficiencies and recommended improvements utilizing TCWSC's six existing pressure planes;
4. Develop cost estimates for the recommended improvements.

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*Carroll & Blackman, Inc.  
Consulting Engineers*

**II. GROWTH AND WATER USAGE**

**A. GROWTH PROJECTIONS**

Historical data, such as the number of connections and water usage, was used to project the future growth of the TCWSC service area. The total number of connections at the end of 2009 was provided by TCWSC staff. The historical growth rate information showed an average growth rate of 0.5% per year. For the most part, this growth has been throughout the TCWSC's service area. The number of connections for each pressure plane was projected for the next 20 years utilizing the 0.5% per year growth rate. The resulting number of connections was used in determining the present and future water system capacities for each pressure plane.

**B. SPECIFIC GROWTH AREAS**

While the number of connections served by the TCWSC has generally grown evenly throughout the service area, there are areas which additional development is possible. As Hardin County continues to grow, it is likely that growth will occur in the southern area of the Fred pressure plane. It is unsure when or if this growth will intensify in Fred, therefore an increase in the growth rate projection was not included for this area. In most cases, this expected growth will be within the 0.5% growth projection.

**C. WATER DEMAND AND USAGE**

Data from TCWSC showed the total maximum daily water demand of 798,100 gallons occurred on September 8, 2009, with a total of 1,785 connections. This yields a maximum demand factor of 0.31 gallons per minute per connection. The model was also analyzed using the average daily water demand of 0.15 gpm per connection, and a peak water demand of 0.6 gpm per connection (0.15 gpm per connection multiplied by a peaking factor of 4)

**III. EXISTING WATER DISTRIBUTION SYSTEM**

**A. GENERAL**

The Texas Commission on Environmental Quality (TCEQ) requires that all public water systems meet certain minimum criteria to ensure customers are provided an adequate and safe supply of water. Based on the current number of connections the following regulations apply:

- Water Well Capacity: Water Well capacity of 0.6 gpm per connection.  
*TCEQ 290.45(b)(1)(D)(i)*
- Total Storage Capacity: 200 gallons per connection.  
*TCEQ 290.45(b)(1)(D)(ii)*
- Service Pump Capacity: Two or more pumps having a total capacity of 2.0 gpm per connection or 1,000 gpm with the ability to meet peak demands with largest pump out of service  
*TCEQ 290.45(b)(1)(D)(iii)*
- Pressure Capacity:
- (i) 100 gallons per connection of elevated storage with ground storage, or
  - (ii) 20 gallons of pressure tank capacity per connection.
  - (iii) If pressure tanks are used, a maximum of 30,000 gallons is sufficient for up to 2,500 connections  
*(TCEQ 290.45(b)(1)(D)(iv))*

TCWSC has received an approval of an Alternative Capacity Requirements (ACR) and the above TCEQ minimum capacities have been reduced to the following:

- Water Well Capacity: Water Well capacity of 0.36 gpm per connection.
- Total Storage Capacity: 120 gallons per connection.
- Service Pump Capacity: Two or more pumps having a total capacity of 1.20 gpm per connection or 1,000 gpm with the ability to meet peak demands with largest pump out of service

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- Pressure Capacity:
- (i) 60 gallons per connection of elevated storage with ground storage, or
  - (iii) 12.0 gallons of pressure tank capacity per connection.
- (TCEQ 290.45(b)(1)(D)(iv))

B. STORAGE AND PUMPING FACILITIES

1. Spurger Water Plant

The Spurger plant is located on the east side of F.M. 92, approximately 1.7 miles north of the intersection of F.M. 92 and F.M. 1013 in Spurger. This plant is part of the original water system that was constructed in the early 1980s. The Spurger water well is 675' deep, produces 400 gpm, and pumps to a 300,000 gallon ground storage tank. In addition, there is a 10,000 gallon pressure tank that is set to maintain between 58 psi and 62 psi. Two 590 gpm high service pumps are also located at this plant. The Spurger plant is at elevation 190'.

The TCEQ's Region 10 Beaumont office has informed TCWSC that the Spurger pressure plane is deficient in water well sources based on the number of water connections in this pressure plane. The Spurger pressure plane has a total of 515 connections. This pressure plane has more than 250 connections, and therefore, is subject to the TCEQ minimum capacity requirements that require a water system to have two water well sources. TCEQ 290.45(b)(1)(D)(i)

2. Fred Water Plant

The Fred plant is located on the east side of F.M. 92, approximately 0.5 miles north of the intersection of F.M. 92 and F.M. 1943 in Fred. This plant is part of the original water system that was constructed in the early 1980s. The Fred water well is 440' deep, produces 205 gpm, and pumps to a 100,000 gallon ground storage tank. In addition, there is a 10,000 gallon pressure tank that is set to maintain between 56 psi and 62 psi. Two 590 gpm high service pumps are also located at this plant. The Fred plant is at elevation 131'.

The TCEQ's Region 10 Beaumont office has informed TCWSC that the Fred pressure plane is deficient in water well sources based on the number of water

connections in this pressure plane. The Fred pressure plane has a total of 485 connections. This pressure plane has more than 250 connections, and therefore, is subject to the TCEQ minimum capacity requirements that require a water system, or pressure plane, to have two water well sources. TCEQ 290.45(b)(1)(D)(i)

Spurger Pressure Plane

1" PVC Water Line	5,900 linear feet
1.25" PVC Water Line	2,000 linear feet
2" PVC Water Line	85,600 linear feet
2.5" PVC Water Line	35,300 linear feet
3" PVC Water Line	1,000 linear feet
4" PVC Water Line	74,500 linear feet
6" PVC Water Line	15,000 linear feet
8" PVC Water Line	17,000 linear feet

Fred Pressure Plane

1" PVC Water Line	850 linear feet
2" PVC Water Line	99800 linear feet
2.5" PVC Water Line	42,800 linear feet
3" PVC Water Line	11,400 linear feet
4" PVC Water Line	28,200 linear feet
6" PVC Water Line	13,900 linear feet

C. DEFICIENCIES

Spurger pressure plane and Fred pressure plane has sufficient ground storage capacity, high service pump capacity, and pressure tank capacity when considering both existing active connections and future connections.

The TCEQ has issued violations to TCWSC in regard to water well capacity and the number of active water connections. For pressure planes that serve more than 250 connections, the water system, or pressure plane, is required to have at least two water wells TCEQ 290.45(b)(1)(D)(i). The existing pressure planes that are subject to this requirement are the Spurger pressure plane and the Fred pressure plane.

**IV. IMPROVEMENT AND COST ESTIMATES**

**A. GENERAL**

The water distribution system models created in this study used 0.15 gpm per connection average water demand, 0.31 gpm per connection maximum daily water demand, and 0.6 gpm per connection peak water demand, as the water system demands. Each improvements required multiple model runs and operating conditions to determine the most feasible water line sizes for interconnecting the pressure planes.

Improvements A      Combine TCWSC's Fred pressure plane and Spurger pressure plane into a single, larger pressure plane to solve both pressure planes need for two water well sources. These improvements include approximately 37,000 linear feet of new water line.

Improvements are not necessary for ground storage or high serve pump capacity, but necessary for TCEQ compliance relating to two or more water well sources for pressure planes with more than 250 connections, per inspections performed by the TCEQ's Region 10 Beaumont office. Combining TCWSC's multiple pressure planes would solve the need for drilling a second well source in Spurger and Fred pressure planes. Merging these pressure planes would also give TCWSC more redundancy throughout the system for delivering water to customers in situations where a water well is shut down for repair or maintenance. The water lines to interconnect these pressure planes have been identified in the cost estimates so that the costs of those lines necessary to provide the required pressures can be identified.

**B. EXISTING WATER DISTRIBUTION SYSTEM**

The existing water distribution system model was analyzed using TCWSC's average daily demand of 0.15 gpm per connection, and TCWSC's recorded maximum daily demand of 0.31 gpm per connection. The hydraulic model was also analyzed using a water demand of 0.6 gpm per connection, which is the average daily demand of 0.15 gpm per connection with a peak factor of 4.

The existing TCWSC water system utilizes six pressure planes, each operating independently of another. The Spurger and Fred existing pressure planes resulted in sufficient pressures when modeled at the 0.15, 0.31 and 0.6 gpm per connection demand factors. . A breakdown of the resulting pressures for each demand factor are located in TABLE 1 for the existing pressure planes. Model results for Improvements A, for each demand factor, are located in TABLE 2.



The TCEQ requires new water system be designed to deliver 1.5 gallons per minute per connection and maintain a minimum of 35 psi. This 1.5 gpm per connection demand factor was also analyzed in the model. The model yielded system wide deficient pressures throughout each pressure plane when a demand factor of 1.5 gpm per connection was applied due to head loss. Head loss, in a pipe, is defined as the drop in the sum of pressure head, velocity head, and potential head between two points along the path of a flowing fluid, due to causes such as fluid friction, pipe diameter, length of pipe, and elevation difference. Approximately 52% of TCWSC's water system consists 2.5" or less pipe diameters. An additional 30% of TCWSC's water system consists of 3" and 4" pipe diameters. These long lengths of small diameter, dead end water lines, and the elevation differential between the water well sites and the water meters on these small water lines account for the deficient pressures when attempting to analyze the hydraulic model at 1.5 gpm per connection. This report does not address the improvements that would be required to upgrade these small diameter lines to satisfy the 1.5 gpm per connection criteria.

C. IMPROVEMENTS A

IMPROVEMENTS A combines the TCWSC's two existing pressure planes, Spurger and Fred, and meets TCEQ minimum capacity requirements for water systems with over 250 connections.

1. Improvements A project options includes:

a) The following water line sizes and lengths:

6" PVC SDR26 Water Line	36,000 Linear Feet
8" PVC SDR26 Water Line	36,000 Linear Feet

See EXHIBIT A for a map showing the proposed improvements.

2. The estimated costs for the improvements are shown in four different formats. These formats include:

- I. New 6" water line that will be installed by TCWSC staff. The required 6" water line bores under roads/driveways will be performed by a Contractor. \$235,750
- b) New 8" water line that will be installed by Contractor. This estimate includes both line work and bores under roads/driveways be performed by a Contractor. \$877,450

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*Consulting Engineers*

- c) New 8" water line that will be installed by TCWSC staff. The required 8" water line bores under roads/driveways will be performed by a Contractor. \$344,713
- d) New 8" water line that will be installed by Contractor. This estimate includes both line work and bores under roads/driveways be performed by a Contractor. \$1,094,800

Detailed cost estimates can be found in TABLE 3 in the following pages. The estimated costs also include a pressure reducing/sustaining valves and a 15% contingency. These costs do not include engineering, land or easement acquisition, legal and fiscal, or administrative costs.

**TABLE 1**  
**TYLER COUNTY WATER SUPPLY CORPORATION**  
**HYDRAULIC MODEL RESULTS**  
**MINIMUM WATER PRESSURES IN EXISTING PRESSURE PLANES**

<b>WATER DEMAND (GPM/CONNECTION)</b>	<b>SPURGER</b>	<b>FRED</b>
0.15	76 psi	69 psi
0.31	70 psi	63 psi
0.6	50 psi	44 psi

**NOTE:**

1. The 0.15 gpm/connection is the TCWSC average daily demand from historical water usage.
2. The 0.31 gpm/connection is the TCWSC maximum daily demand recorded by TCWSC staff.
3. The 0.6 gpm/connection is the TCWSC peak water demand (0.15 gpm/connection x 4 peaking factor).

**TABLE 2**  
**TYLER COUNTY WATER SUPPLY CORPORATION**  
**HYDRAULIC MODEL RESULTS**  
**MINIMUM WATER PRESSURES FOR IMPROVEMENTS A**  
**(MERGING OF SPURGER AND FRED PRESSURE PLANES)**

WATER DEMAND (GPM/CONNECTION)	SPURGER AND FRED WELLS ONLINE		FRED WELL ONLINE (SPURGER WELL "OFF")		SPURGER WELL ONLINE (FRED WELL "OFF")	
	6"	8"	6"	8"	6"	8"
0.15	74 psi	77 psi	43 psi	49 psi	74 psi	79 psi
0.31	63 psi	63 psi		35 psi	52 psi	64 psi
0.6	42 psi	40 psi				

**NOTE:**

1. The 0.15 gpm/connection is the TCWSC average daily demand from historical water usage.
2. The 0.31 gpm/connection is the TCWSC maximum daily demand recorded by TCWSC staff.
3. The 0.6 gpm/connection is the TCWSC peak water demand (0.15 gpm/connection x 4 peaking factor).

**Tyler County Water Supply Corporation**

**IMPROVEMENT A - SPURGER AND FRED**

**TABLE B (a) COST ESTIMATE**

(WATER LINE TO BE INSTALLED BY TWSC STAFF)

ITEMS		COST	QUANTITY	TOTAL PRICE
1	6" PVC SDR 26 water line pipe (Material Only, TCWSC Installation)	37,000 LF	4.33 <del>\$3.50</del>	160,250 <del>\$129,500</del>
2	6" PVC SDR 26 water line installed by boring (Contractor Installation)	1,500 LF	\$45.00	\$67,500
3	6" Cla-Val Automatic Pressure Reducing/Sustaining Valve	2 EA	\$4,000.00	\$8,000
Total				<del>\$205,000</del>
<del>15% Contingency</del>				<del>\$30,750</del>
<b>TOTAL CONSTRUCTION ESTIMATE</b>				<b>\$235,750</b>

**Tyler County Water Supply Corporation**

**IMPROVEMENT A - SPURGER AND FRED**

**TABLE 3 (b) COST ESTIMATE**

(All IMPROVEMENTS PERFORMED BY CONTRACTOR)

ITEMS		COST	QUANTITY	TOTAL PRICE	
1	6" PVC SDR 26 water line installed by open cut	35,500 LF	\$20.00	\$710,000	
2	6" PVC SDR 26 water line installed by boring	1,500 LF	\$30.00	\$45,000	
3	6" Cla-Val Automatic Pressure Reducing/Sustaining Valve	2 EA	\$4,000.00	\$8,000	
				Total	\$763,000
				15% Contingency	\$114,450
				<b>TOTAL CONSTRUCTION ESTIMATE</b>	<b>\$877,450</b>

**Tyler County Water Supply Corporation**

**IMPROVEMENT A - SPURGER AND FRED**

**TABLE 3 (c) COST ESTIMATE**

(WATER LINE TO BE INSTALLED BY TWSC STAFF)

ITEMS		COST	QUANTITY	TOTAL PRICE	
1	8" PVC SDR 26 water line pipe (Material Only, TCWSC Installation)	37,000 LF	\$5.75	\$212,750	
2	8" PVC SDR 26 water line installed by boring (Contractor Installation)	1,500 LF	\$50.00	\$75,000	
3	8" Cla-Val Automatic Pressure Reducing/Sustaining Valve	2 EA	\$6,000.00	\$12,000	
				Total	\$299,750
				15% Contingency	\$44,963
				<b>TOTAL CONSTRUCTION ESTIMATE</b>	<b>\$344,713</b>

**Tyler County Water Supply Corporation**

**IMPROVEMENT A - SPURGER AND FRED**

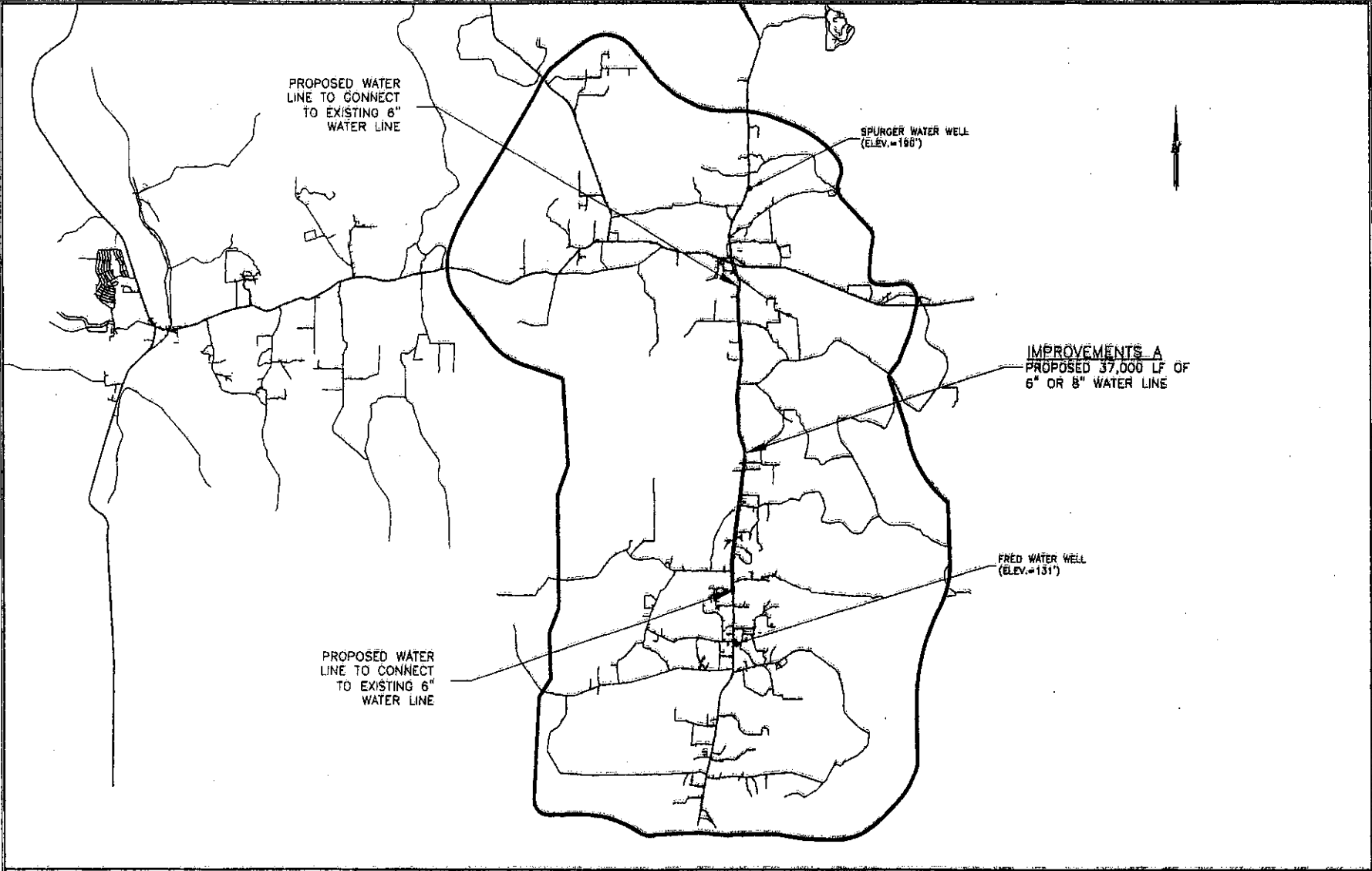
**TABLE 3 (d) COST ESTIMATE**

(All IMPROVEMENTS PERFORMED BY CONTRACTOR)

ITEMS		COST	QUANTITY	TOTAL PRICE
1	8" PVC SDR 26 water line installed by open cut	35,500 LF	\$25.00	\$887,500
2	8" PVC SDR 26 water line installed by boring	1,500 LF	\$35.00	\$52,500
3	8" Cla-Val Automatic Pressure Reducing/Sustaining Valve	2 EA	\$6,000.00	\$12,000
Total				\$952,000
15% Contingency				\$142,800
<b>TOTAL CONSTRUCTION ESTIMATE</b>				<b>\$1,094,800</b>



**EXHIBIT A**



**Carroll &  
Blackman,  
Inc.**

Texas Registered Engineering Firm F-001034  
 Consulting Engineers  
 3120 Fannin Street  
 Beaufort, Texas 77701  
 (409) 833-1368

TYLER COUNTY WATER SUPPLY CORPORATION  
 HYDRAULIC ANALYSIS & WATER SYSTEM MASTER PLAN

EXHIBIT A  
 MAP OF IMPROVEMENTS A

**David Waxman**

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**From:** Jeff Leavins [jleavins@cbieng.com]  
**Sent:** Thursday, March 04, 2010 5:55 PM  
**To:** David Waxman; generalmanager@tylercountywater.com  
**Subject:** Fred and Spurger Hydraulic Report  
**Attachments:** TCWSC Hydraulic Report for Fred and Spurger.pdf

Mr. Waxman,

I have attached the Hydraulic Report for the Fred and Spurger pressure planes per the request of Mr. Lovelady and yourself. I have attached cost estimates for the 6" and 8" water line sizes which includes a linear footage of bore lengths that were obtained from aerial photography (driveways/roads). This linear footage for bore lengths is approximate and is likely to be less than what was estimated from the report. Please call with any questions or comments. Thanks

Jeff D. Leavins, E.I.T.  
Project Manager  
Carroll & Blackman, Inc.  
Consulting Engineers and Surveyors  
3120 Fannin Street  
Beaumont, TX 77701  
Office 409-833-3363 Ext. 121  
Mobile 409-673-6134  
Fax 409-833-0317



# TYLER COUNTY COMMISSIONERS COURT

County Courthouse, Room 101 / Woodville, Texas

Tuesday  
April 13, 2010  
1:30 PM

MARTIN NASH  
Commissioner, Pct. 1

RUSTY HUGHES  
Commissioner, Pct. 2

JACQUES L. BLANCHETTE  
County Judge

MIKE MARSHALL  
Commissioner, Pct. 3

JACK WALSTON  
Commissioner, Pct. 4

**NOTICE** Is hereby given that a *Special Meeting* of the Tyler County Commissioners Court will be held on the date stated above, at which time the following subjects will be discussed;

## Agenda

*"the wisdom to know the right thing and the courage to do it"*

### CONSIDER/APPROVE:

- Amending FY-2008 TCDP Water Improvement Project/Fred Area (CDBG Fred Water Well Project)  
Contract # 728410 – *David Waxman, Waxman and Associates*

MOTION - M. MARSHALL Continue to support  
TCWSC on concluding current project.  
2ND - WALSTON  
DISCUSSION  
~~DISCUSSION~~ APPROVAL, unanimous  
Adjourn  
WALSTON/NASH

I do hereby certify that the above Notice of Meeting of the Tyler County Commissioners Court is a true and correct copy of said Notice and that I posted a true and correct copy of said Notice at the Tyler County Courthouse in a place readily accessible to the general public at all times and that said Notice remained so posted continuously for at least 72 hours preceding the scheduled time of said meeting, as is required by Section 551.002 & 551.041.

Executed on April 9 2010 Time 8:15 Am

Donece Gregory, County Clerk/Ex Officio Member of Commissioners Court

By: Jacqui Skinner (Deputy)