



## City of Cottonwood Shores

3915 Cottonwood Drive  
Marble Falls, Texas 78654  
Tel: 512/693-3830

### SPECIAL MEETING

January 28, 1993  
7:00 p.m.

The meeting was called to order by Mayor Joseph Beyer at the Community Center, located at 4111 Cottonwood Drive, Cottonwood Shores, Texas. All members of the City Council were present and confirmed by a roll call.

Mayor Beyer explained that the reason for the Special Meeting was to complete the information that was not presented when Mr. Tomee met with the City Council, and try to answer some questions that were not answered at that time. Mr. Lynn Willis, of Willis Engineering, was present to provide some additional information. Mayor Beyer read a letter from the Farmers Home Administration acknowledging their receipt of the letter from the City of Cottonwood Shores that said the City Council had voted to terminate the proposed sewer project. Farmers Home Administration would now require the City to de-obligate the funds set aside for Cottonwood Shores and withdraw its application.

Mayor Beyer also stated that he needed the Council to tell him if he should notify Farmers Home Administration to de-obligate the funds.

The Mayor asked Mr. Willis what the cushion of capacity was, to off-set power outages? The Mayor thought it was about 20 or 30 minutes. Mr. Willis said the Texas Water Commission Rules require a minimum of 20 minutes of storage available in the wet wells or any kind of lift station. This is measured from the time the pumps normally turn on. Mr. Willis handed each Councilman a sheet showing calculations of the available storage at each one of the lift stations. He also stated that if you have a problem with a pump or a power outage, you will have about 2 1/2 hours to repair it. Discussion ensued of the detailed storage capacity of each lift station. Mr. Willis also stated that power outages are reduced now because PEC can feed power from two different directions.

There was discussion of having a portable generator to pump out the lift stations in case of a power failure.

Councilman Smyrl stated that he asked Tony Plumlee what the wait time or outage time our system was designed for and he said 20 minutes. Now we find that it is 208 minutes and 188 minutes and so on. Maybe we have not had the right information all along. Councilman Smyrl explained some of the problems that Austin is having with their sewer system.

Councilman Butler said he knew that each station has dual pumps, but do they have two separate controllers in the event that one controller should totally fail. Mr. Willis said they have separate controls and a separate starter for each pump, in case one fails it switches over to the other one. The other safety factor at each station is that it has a visible signal to tell if the pump is not working. There is a red light on the outside of each station. The red light will come on when both pumps are out. The way it works is, when the liquid in the lift station rises to a certain point, which indicates that the pumps are not running properly, there is a switch that turns the light on. Anyone driving by could tell if the station was not working. The suggestion was made to install an automatic dialer that would dial a telephone number when the pump was not working.



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The City Secretary stopped the meeting at this point, because the Mayor had a medical emergency.

The meeting adjourned at 7:25 p.m..

Respectfully,

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Shirley Pitts, City Secretary

Mayor



Sewer storage Requirements for 2 1/2 Hr. Power Failure

Lift Sta. No. 1

Design connections  $144 \times 2.5 \text{ people/conn} = 360 \text{ people}$   
 $360 \text{ p.} \times 100 \frac{\text{gal}}{\text{p.}} \div 1440 \frac{\text{min}}{\text{day}} = 25 \frac{\text{gal}}{\text{min}}$  (Avg. flow)

$25 \frac{\text{gal}}{\text{min}} \times 150 \text{ min} = \underline{\underline{3750 \text{ gal}}}$  (Req'd. storage)

Available Storage:

- 5'  $\phi$  Wet well  $\times 8.9'$  Max. storage  $(\frac{\pi}{4}(2.9)^2 \times 8.9 \times 7.46) = 1304 \text{ gal.}$
- 4'  $\phi$  MH #1  $\times 5.8'$  Max.  $\checkmark$   $(\frac{\pi}{4}(1.6)^2 \times 5.8 \times 7.46) = 544 \text{ gal.}$
- 4'  $\phi$  MH #4  $\times 4.8'$   $\checkmark$   $\checkmark$   $(\frac{\pi}{4} 1.6 \times 4.8 \times 7.46) = 500 \text{ gal.}$
- 4'  $\phi$  MH #3  $\times 3.0'$   $\checkmark$   $\checkmark$   $(\frac{\pi}{4} 1.6 \times 3.0 \times 7.46) = 312 \text{ gal.}$
- 4'  $\phi$  MH #5  $\times 1.6'$   $\checkmark$   $\checkmark$   $(\checkmark 1.6 \checkmark) = 167 \text{ gal.}$
- 4'  $\phi$  MH #6  $\times 1.1'$   $\checkmark$   $\checkmark$   $(\checkmark 1.1 \checkmark) = 115 \text{ gal.}$
- 684' - 8"  $\phi$  @ 2.6 gal per foot = 1778 gal.
- 320' - 6"  $\phi$  @ 1.46  $\checkmark$   $\checkmark$   $\checkmark$  = 467 gal.

Total Available Storage 5187 gal. OK!  
208 min.

Lift Station No. 2

Design Conn. =  $64 \times 2.5 \text{ P./conn.} = 160 \text{ people}$   
 $160 \text{ p.} \times 100 \frac{\text{gal}}{\text{p.}} \div 1440 = 11.1 \frac{\text{gal}}{\text{min}}$  (Avg. flow)

$11.1 \frac{\text{gal}}{\text{min}} \times 150 \text{ min.} = \underline{\underline{1667 \text{ gal}}}$  (Req'd. Stg.)

Available Storage:

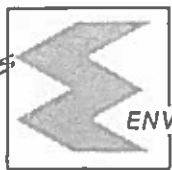
- 5'  $\phi$  Wet well  $\times 8.4'$  Max. Stg. @ 146 gal/ft. = 1226 gal.
- 4'  $\phi$  MH #33  $\times 1'$   $\checkmark$   $\checkmark$  @ 94 gal/ft = 94 gal.
- 4'  $\phi$  MH #35  $\times 0.5'$   $\checkmark$   $\checkmark$  @  $\checkmark$   $\checkmark$  = 47 gal
- 494' - 6"  $\phi$  @ 1.46 gal./ft. = 721 gal

Total Available Storage 2088 gal. OK!  
188 min.

JOB NO. \_\_\_\_\_

CLIENT Cottonwood Shores

SUBJECT \_\_\_\_\_



ENVIRONMENTAL ENGINEERING, INC.

MARBLE FALLS, TEXAS

WILLIS

SHEET 2 OF 2

DATE 1-6-93

PREPARED BY: fw

CHECKED BY: \_\_\_\_\_

### Sewer Storage (cont.)

#### Lift Station No. 3: (Main)

Design Conn.:  $160 \times 2.5 \times 100 \div 1440 = 28 \text{ gal/min.}$

$28 \text{ gpm} \times 150 \text{ min.}$

$= 4200 \text{ gal (req'd.)}$

#### Available Storage:

6' $\phi$ Wet well x 10' max. Stg. ( $\frac{\pi}{4}(36) \times 10' \times 7.46$ ) =	2109 gal
4' $\phi$ MH #48 x 3.8 Max Stg. @ 94 gal/ft. =	357 $\checkmark$
4' $\phi$ MH #50 x 2.5 $\checkmark \checkmark \checkmark \checkmark$ =	235 $\checkmark$
4' $\phi$ MH #54 x 1.7 $\checkmark \checkmark \checkmark \checkmark$ =	160 $\checkmark$
4' $\phi$ MH #55 x 1.0 $\checkmark \checkmark \checkmark \checkmark$ =	94 $\checkmark$
4' $\phi$ MH #40 x 2.2 $\checkmark \checkmark \checkmark \checkmark$ =	207 $\checkmark$
800' 10" $\phi$ @ 4.0 gal/ft =	3200 $\checkmark$
100' 6" $\phi$ @ 1.46 gal/ft =	146 $\checkmark$

#### Total Available Storage

$= 6508 \text{ gal.}$

OK!  
233 min.

#### Lift Station No. 4:

Design Conn.:  $100 \times 2.5 \times 100 \div 1440 = 17 \text{ gpm}$

$17 \text{ gpm} \times 150 \text{ min} =$

$2550 \text{ gal (req'd.)}$

#### Available Storage:

5' $\phi$ Wet well x 8.4 max. Stg. @ 146 gal =	1226 gal
4' $\phi$ MH #106 x 1' $\checkmark \checkmark$ @ 94 $\checkmark \checkmark$ =	94 gal
4' $\phi$ $\checkmark$ #86 x 5' $\checkmark \checkmark$ @ 94 $\checkmark$ =	470 gal
4' $\phi$ $\checkmark$ #108 x 4.4' $\checkmark \checkmark$ $\checkmark \checkmark \checkmark$ =	414 $\checkmark$
4' $\phi$ $\checkmark$ #109 x 4' $\checkmark \checkmark$ $\checkmark \checkmark \checkmark$ =	396 $\checkmark$
4' $\phi$ $\checkmark$ #111 x 1' $\checkmark \checkmark$ $\checkmark \checkmark \checkmark$ =	94 $\checkmark$
4' $\phi$ $\checkmark$ #87 x 1.4' $\checkmark \checkmark$ $\checkmark \checkmark \checkmark$ =	132 $\checkmark$
4' $\phi$ $\checkmark$ #89 x 0.5' $\checkmark \checkmark$ $\checkmark \checkmark \checkmark$ =	47 $\checkmark$
1200'-8" $\phi$ @ 2.6 gal/ft =	3120 $\checkmark$
130'-6" $\phi$ @ 1.46 $\checkmark$ =	190 $\checkmark$

#### Total Available Storage

$6163 \text{ Gallons OK.}$

363 min.

Attendance

1-28-93

Norman Reed

Pat Flower

Paul Vesterling

Oleta Reed

C. L. Smith

Al Janke

Kathy Saffith

Sylvia M. Lewis

Ayesha R. Baig

Lute Maxson

Inez Thompson

Edmon Maxson

Samuel

Chris Dilworth

Dan Kewertner

Jay Dilworth

Wanda Simpson

John Renfro

Brend Brasen

Ashton Petre

Shirley Brasen

Marie Pannell

Marilyn Burlison

Eddie Hazen

Noah Thompson

Marla Stapp

Mary Thompson

Belda Sullivan

Bill Martin

Don Reese

Becky Ramesbotham

Mary Ky

Sandra Tomlin

Nellie Stapp

Mrs. Homer C. Truax

Frank J. Dufren

James D. Dufren

Paula Dufren

Leon Tephaw

Alicia Webb

Constance Tephaw

Ray H. McBride

Dorothy L. Costello

Barbara McBride

Robert Saffith

H.D. McBride

JIM ROBERTSON

Darrell Mosley

Rozell Robertson

Leslie Hamilton

Claudia LaShant

Albert Dykora

Lynn Willis

Ernie Duff

MIRZA A. BAIG

Janet Dullum

Paul E. Graham

Stu Dowsy



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**SPECIAL MEETING  
OF THE CITY COUNCIL  
JANUARY 28, 1993  
7:00 P.M.**

### AGENDA

1. Discussion by Willis Engineering and Mayor Joseph Beyer of technical and financial questions relating to the sewer project.
2. Discussion and/or action on whether to rescind Resolution No. 111292-B and continue the sewer project or notify Farmers Home Administration to de-obligate \$1.7 million in Loan and Grant funds obligated to the City of Cottonwood Shores for construction of the sewer project.

I certify that the above notice was posted on the bulletin board located at 3915 Cottonwood Drive, Cottonwood Shores, Texas this 25th day of January, 1993.

Respectfully,

*Shirley Pitts*

Shirley Pitts  
City Secretary/Clerk