

SUMMARY ADDENDUM
TO
PRELIMINARY ENGINEERING REPORT
DATED: **SEPTEMBER 17th, 2018**
FOR
**FRITZ-WINTER CAPACITY IMPROVEMENTS, WATER LINE REPLACEMENT,
& EXTENSIONS PROJECT**
SIMPSON COUNTY WATER DISTRICT
APPLICANT CONTACT PERSON: **RYAN J. LEISEY, P.E.**
APPLICANT PHONE NUMBER: **270-842-0052**
APPLICANT TAX IDENTIFICATION NUMBER (TIN): **61-0675557**

In order to avoid unnecessary delays in application processing, the applicant and its consulting engineer should prepare a summary of the preliminary report in accordance with this guide.

Please complete the applicable sections of the Summary Addendum. *Please note, if water and sewer revenue will both be taken as security for the loan, all user information and characteristics of both utility systems will be needed even though the project will benefit only one utility.*

Feasibility reviews and grant determinations may be processed more accurately and more rapidly if the Summary/Addendum is submitted simultaneously with the preliminary engineering report, or as soon thereafter as possible.

I. GENERAL

A. Proposed Project: Provide a brief description of the proposed project. In addition to this summary, the applicant/engineer should submit a project map of the service area.

The proposed Fritz-Winter Capacity Improvements portion of the project includes construction of 4,500 feet of 12" PVC water line, 11,000 feet of 8" PVC waterline, boring interstate highway I-65, a new 200 GPM pump station, and two master meters. The proposed project has been determined to be the most economical and robust solution for serving the Fritz-Winter water demand. This hydraulic route will also increase system redundancy to the northern part of the county which will allow water distribution to continue during leak repairs. The 4,500 feet of 12" PVC water line will be extended from the end of an existing 12" line in the central part of Simpson County, across interstate I-65, and to an existing 8" line at the intersection of Gold City Road and Chaney Road. This large water main extension will allow the Gold City pump station to run without substantially impacting the operations of the proposed, new pump station. The 11,000 feet of 8" PVC water line will be constructed along Salmons Blackjack Road from Blackjack Road to Uhls Road. This water main extension will supply the suction side of the new pump station with enough capacity to meet the Fritz-Winter demand and other system needs.

At the intersection of Salmons Blackjack Road and Uhls Road a new 200 gpm pump station will be constructed. This pump station will pump primarily to the 500,000-gallon Salmons tank that serves the Fritz-Winter plant. The pump station will also contain an electric operated control valve which will allow for 80 gpm of energy efficient free-flow during off-peak operation.

The new master meter sites will be located at the intersection of Gold City Road and Chaney Road and at the new pump station. The master meters will maintain water source accountability while allowing for transmission through the Blackjack Source.

The water line replacements are designed as 4" lines with possible upgrades to 6" lines at strategic locations for increased transmission capacity or fire protection. The water line replacements and water line extensions will occur along the following roads for the following distances:

Line I.D.	Road Name	Proposed Size	Length
1	Blackjack Road	4" PVC	1,460
2	Roark Road (South)	4" PVC	1,100
3	Sportsman Lake Road Sect. 2	4" PVC	2,720
4	Rutherford Road	4" PVC	940
5	Lake Springs Road	4" PVC	3,940
6	Blackjack Road (North)	4" PVC	6,200
7	Roundpond- Rapids Road Area	4" PVC	4,160
8	Macedonia Road	4" PVC	1,680
9	Witt Road	4" PVC	900
10	Sportsman Lake Road Sect. 1	4" PVC	7,180
A	Albert Elliot Road (3)	4" PVC	3,200
B	Stevenson Rd (2)	4" PVC	4,200
Total:			37,680

See the attached Exhibits A & B for the project maps.

II. FACILITY CHARACTERISTICS OF EXISTING SEWER SYSTEM

Not Applicable

III. FACILITY CHARACTERISTICS OF EXISTING WATER SYSTEM

A. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also, describe the adequacy of Water Purchase Contract if applicable.

The District's existing distribution system currently includes approximately 400 miles of water lines with mains as large as 16". The District operates 7 storage tanks and 8 pump stations. There are approximately 3,060 residential and 370 commercial water customers. These customers generate an average demand of approximately 1,000,000 gallons per day (gpd). The District purchases water from White House Utility District, headquartered in White House, Tennessee. The White House UD WTP has ample capacity to supply The District's existing customers and projected future growth. White House draws water from the Cumberland River. The District has a long-term contract with White House UD which includes incremental growth triggers for capacity upgrades.

If the applicant purchases water, list the Seller(s):

Seller(s): **White House Utility District**

Price/1,000 gallons: **\$2.66**

Present Estimated Market Value of Existing System: **\$16,500,000**

B. Water Storage:

Type: Ground Storage Tank: **Yes** Elevated Tank: **Yes**
 Standpipe: **No** Other: **No**

Number of Storage Structures: **7**

Total Storage Volume Capacity: **2,150,000 Gallons**

Date(s) Storage Tank(s) Constructed: **1966 – 2001**

C. Water Distribution System

Pipe Material: **Polyvinyl Chloride, Cast Iron, Ductile Iron, Asbestos Cement**

Lineal Feet of Pipe: 3" Diameter: **627,152** 4": **807,210**

 6": **322,044** 8": **222,685**

 10": **52,756** 12": **33,154**

Date(s) Water Lines Constructed: **1966 – 2018**

Number and Capacity of Pump Station(s): **8, Capacity: 90 – 1,100 GPM**

D. Condition of Existing Water System:

Briefly describe the condition and suitability for continued use of the facility now owned by the applicant. Include any major renovation that will be needed within five to ten years.

The existing water distribution system is in good condition. Within five to ten years there will be several tanks that need to be recoated and additional aging water lines will need to be replaced. Two pump stations will need to be upgraded.

E. Percentage of Water Loss for the Existing System: **14%**

IV. EXISTING LONG-TERM INDEBTEDNESS

A. List of Bonds and Notes

<u>Date of Issue</u>	<u>Bond/Note Holder</u>	<u>Principal Balance</u>	<u>Payment Date</u>	<u>Bond Type Water/Sewer*</u>	<u>Amount on Deposit in Reserve Account</u>
1995	USDA	\$692,000	Jan 1/ July 1	100%/0%	\$0.00
2012	KRWFC	\$1,215,000	Feb 1/ Aug 1	100%/0%	\$0.00
2013	KRWFC	\$70,000	Feb 1/ Aug 1	100%/0%	\$0.00

*If a combined issue, show attributable portion to each system.

B. Principal and Interest Payments: (begin with the next fiscal year payment)

<u>Date of Issue</u>	<u>Bond/Note Holder</u>	<u>Payment Year 2019</u>		<u>Payment Year 2020</u>		<u>Payment Year 2021</u>	
		<u>Principal Payment</u>	<u>Interest Payment</u>	<u>Principal Payment</u>	<u>Interest Payment</u>	<u>Principal Payment</u>	<u>Interest Payment</u>
1995	USDA	29,000	33,028	30,000	31,590	32,000	30,079
2012	KRWFC	65,000	41,571	65,000	39,491	70,000	37,331
2013	KRWFC	40,000	1,150	30,000	345	0	0

V. EXISTING SHORT-TERM INDEBTEDNESS

A. List of all Short-Term Debts (Do Not Show Any Debt Listed in Paragraph IV Above)

None

VI. LAND AND RIGHTS – EXISTING SYSTEM(S)

Number of Treatment Plant Sites:	Water	N/A	Sewer	N/A
Number of Storage Tank Sites:	Water	7	Sewer	N/A
Number of Pump Stations:	Water	8	Sewer	N/A
Total Acreage:	Water	3±	Sewer	N/A Acres
Purchase Price:	Water	\$90,000±	Sewer	N/A

VII. NUMBER OF EXISTING USERS

	Water	Sewer
Residential (In Town) *	0	N/A
Residential (Out of Town) *	3,060	N/A
Non-Residential (In Town)	0	N/A
Non-Residential (Out of Town)	370	N/A
Total	3,430	N/A
Number to Total Potential Users Living in the Service Area	4	N/A

*Note: Residential Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residence.

IX. CURRENT WATER AND SEWER CONNECTION FEES FOR EACH SIZE WATER

METER CONNECTION

<u>Meter Size</u>	<u>Water Connection Fee</u>	<u>Sewer Connection Fee</u>
5/8" x 3/4"	\$450.00	NA
1 – Inch	\$850.00	NA

X. SEWER RATES – EXISTING SYSTEM

Not Applicable

XI. WATER RATES - EXISTING SYSTEM

5/8 X 3/4-Inch Meter

First	2,000 Gallons	\$ 16.11 Minimum Bill
Next	8,000 Gallons	5.80 per 1,000 Gallons
Next	190,000 Gallons	5.19 per 1,000 Gallons
Next	400,000 Gallons	4.86 per 1,000 Gallons
Over	600,000 Gallons	3.58 per 1,000 Gallons

3/4-Inch Meter

First	3,000 Gallons	\$22.42 Minimum Bill
Next	7,000 Gallons	5.80 per 1,000 Gallons
Next	190,000 Gallons	5.19 per 1,000 Gallons
Next	400,000 Gallons	4.86 per 1,000 Gallons
Over	600,000 Gallons	3.58 per 1,000 Gallons

1--Inch Meter

First	5,000 Gallons	\$34.52 Minimum Bill
Next	5,000 Gallons	5.80 per 1,000 Gallons
Next	190,000 Gallons	5.19 per 1,000 Gallons
Next	400,000 Gallons	4.86 per 1,000 Gallons
Over	600,000 Gallons	3.58 per 1,000 Gallons

1-1/2-Inch Meter

First	10,000 Gallons	\$69.54 Minimum Bill
Next	190,000 Gallons	5.19 per 1,000 Gallons
Next	400,000 Gallons	4.86 per 1,000 Gallons
Over	600,000 Gallons	3.58 per 1,000 Gallons

2-Inch Meter

First	16,000 Gallons	\$102.19 Minimum Bill
Next	184,000 Gallons	5.19 per 1,000 Gallons
Next	400,000 Gallons	4.86 per 1,000 Gallons
Over	600,000 Gallons	3.58 per 1,000 Gallons

3-Inch Meter

First	30,000 Gallons	\$201.90 Minimum Bill
Next	170,000 Gallons	5.19 per 1,000 Gallons
Next	400,000 Gallons	4.86 per 1,000 Gallons
Over	600,000 Gallons	3.58 per 1,000 Gallons

4-Inch Meter

First	50,000 Gallons	\$311.71 Minimum Bill
Next	150,000 Gallons	5.19 per 1,000 Gallons
Next	400,000 Gallons	4.86 per 1,000 Gallons
Over	600,000 Gallons	3.58 per 1,000 Gallons

6-Inch Meter

First	100,000 Gallons	\$585.25 Minimum Bill
Next	100,000 Gallons	5.19 per 1,000 Gallons
Next	400,000 Gallons	4.86 per 1,000 Gallons
Over	600,000 Gallons	3.58 per 1,000 Gallons

8-Inch Meter

First	160,000 Gallons	\$916.71 Minimum Bill
Next	40,000 Gallons	5.19 per 1,000 Gallons
Next	400,000 Gallons	4.86 per 1,000 Gallons
Over	600,000 Gallons	3.58 per 1,000 Gallons

10-Inch Meter

First	550,000 Gallons	\$2,838.09 Minimum Bill
Next	50,000 Gallons	4.86 per 1,000 Gallons
Over	600,000 Gallons	3.58 per 1,000 Gallons

* These rates apply to all customer classifications and are subject to 10 percent late payment charge if paid after the due date.

XII. ANALYSIS OF ACTUAL SEWER USAGE - EXISTING SYSTEM

Not Applicable

XIII. ANALYSIS OF ACTUAL, WATER USAGE - EXISTING SYSTEM – 12 MONTH PERIOD

For Period January 1st, 2018 to December 31st, 2018.

ANALYSIS OF ACTUAL WATER USAGE AND FORECAST OF WATER USAGE INCOME
(INCLUDES 9.75% RATE INCREASE AS PROPOSED)

5/8" METERS:

USAGE/MON	AVG	RESIDENTIAL			COMMERCIAL				
		AVG BILL	NO. BILLS	USAGE	INCOME	NO. BILLS	USAGE	INCOME	
0 TO	2,000	1,128	17.68	9,535	10,755,480	\$168,579	1,727	1,948,056	\$30,533
2 TO	3,000	2,509	20.92	5,924	14,863,316	123,930	209	524,381	4,372
3 TO	4,000	3,485	27.14	5,491	19,136,135	149,026	94	327,590	2,551
4 TO	5,000	4,478	33.46	4,812	21,548,136	161,010	92	411,976	3,078
5 TO	6,000	5,465	39.75	3,232	17,662,880	128,472	83	453,595	3,299
6 TO	7,000	6,470	46.15	1,995	12,907,650	92,069	64	414,080	2,954
7 TO	8,000	7,472	52.54	1,279	9,556,688	67,199	57	425,904	2,995
8 TO	9,000	8,481	58.96	859	7,285,179	50,647	50	424,050	2,948
9 TO	10,000	9,475	65.30	615	5,827,125	40,160	35	331,625	2,286
10 TO	11,000	10,466	71.30	466	4,877,156	33,226	31	324,446	2,210
11 TO	12,000	11,484	77.10	309	3,548,556	23,824	17	195,228	1,311
12 TO	14,000	12,956	85.49	414	5,363,784	35,393	37	479,372	3,163
14 TO	16,000	14,973	96.99	318	4,761,414	30,843	31	464,163	3,007
16 TO	18,000	16,980	108.43	179	3,039,420	19,409	27	458,460	2,928
18 TO	20,000	18,948	119.64	137	2,595,876	16,391	29	549,492	3,470
20 TO	25,000	22,097	137.59	109	2,408,573	14,997	40	883,880	5,504
25 TO	30,000	27,500	168.39	73	2,007,500	12,292	30	825,000	5,052
30 TO	40,000	34,326	207.30	79	2,711,754	16,377	25	858,150	5,183
40 TO	50,000	44,244	263.83	43	1,902,492	11,345	22	973,368	5,804
50 TO	75,000	59,842	352.74	43	2,573,206	15,168	17	1,017,314	5,997
75 TO	100,000	86,441	504.35	17	1,469,497	8,574	8	691,528	4,035
100 TO	150,000	120,228	696.94	11	1,322,508	7,666	2	240,456	1,394
150 TO	200,000	165,532	955.17	10	1,655,320	9,552	5	827,660	4,776
200 TO	300,000	234,929	1337.81	7	1,644,503	9,365	2	469,858	2,676
300 TO	400,000	323,747	1811.21	2	647,494	3,622	0	0	0
400 TO	500,000	0	0.00	0	0	0	0	0	0
500 TO	ABOVE	1,529,000	6934.61	0	0	0	0	3,058,000	13,869
SUBTOTALS				35,959	162,071,642	\$1,249,136	2,736	17,577,632	\$125,395
AVG. RATE						\$7.65			
AVG. USAGE						4,507		6,425	

1" METERS

USAGE/MON	AVG	RESIDENTIAL			COMMERCIAL				
		AVG BILL	NO. BILLS	USAGE	INCOME	NO. BILLS	USAGE	INCOME	
0 TO	5,000	2,117	37.89	186	393,762	7,048	239	505,963	9,056
5 TO	6,000	5,504	41.10	33	181,632	1,356	19	104,576	781
6 TO	7,000	6,448	47.11	29	186,992	1,366	13	83,824	612
7 TO	8,000	7,502	53.83	32	240,064	1,723	18	135,036	969
8 TO	9,000	8,551	60.51	17	145,367	1,029	17	145,367	1,029
9 TO	10,000	9,559	66.93	17	162,503	1,138	13	124,267	870
10 TO	11,000	10,472	72.43	25	261,800	1,811	13	136,136	942
11 TO	12,000	11,436	77.93	18	205,848	1,403	14	160,104	1,091
12 TO	14,000	12,925	86.41	13	168,025	1,123	23	297,275	1,987
14 TO	16,000	14,848	97.37	8	118,784	779	16	237,568	1,558
16 TO	18,000	17,078	110.08	9	153,702	991	14	239,092	1,541
18 TO	20,000	19,077	121.48	7	133,539	850	10	190,770	1,215
20 TO	25,000	22,443	140.67	20	448,860	2,813	17	381,531	2,391
25 TO	30,000	27,571	169.89	8	220,568	1,359	26	716,846	4,417
30 TO	40,000	35,184	213.29	6	211,104	1,280	59	2,075,856	12,584
40 TO	50,000	44,764	267.89	1	44,764	268	30	1,342,920	8,037
50 TO	75,000	58,836	348.11	1	58,836	348	31	1,823,916	10,791
75 TO	100,000	85,418	499.62	0	0	0	16	1,366,688	7,994
100 TO	150,000	118,362	687.40	0	0	0	7	828,534	4,812
150 TO	200,000	187,337	1080.56	3	562,011	3,242	0	0	0
200 TO	300,000	248,637	1411.98	6	1,491,822	8,472	0	0	0
300 TO	400,000	338,683	1891.92	3	1,016,049	5,676	0	0	0
400 TO	500,000	0	0.00	0	0	0	0	0	0
500 TO	ABOVE	0	0.00	0	0	0	0	0	0
SUBTOTALS				442	6,406,032	\$44,075	595	10,896,269	\$72,677

1 1/2" METERS:

USAGE/MON	AVG	AVG			RESIDENTIAL			COMMERCIAL		
		BILL	NO. BILLS		USAGE	INCOME	NO. BILLS	USAGE	INCOME	
0 TO	10,000	3,017	76.32	0	0	0	51	153,867	3,892	
10 TO	11,000	0	0.00	0	0	0	0	0	0	
11 TO	12,000	11,467	84.68	0	0	0	6	68,802	508	
12 TO	14,000	13,267	94.94	0	0	0	6	79,602	570	
14 TO	16,000	14,933	104.44	0	0	0	12	179,196	1,253	
16 TO	18,000	17,550	119.36	0	0	0	4	70,200	477	
18 TO	20,000	19,017	127.72	0	0	0	6	114,102	766	
20 TO	25,000	22,000	144.72	0	0	0	2	44,000	289	
25 TO	30,000	27,357	175.25	0	0	0	14	382,998	2,454	
30 TO	40,000	34,752	217.41	0	0	0	25	868,800	5,435	
40 TO	50,000	46,384	283.71	0	0	0	13	602,992	3,688	
50 TO	75,000	60,229	362.63	0	0	0	20	1,204,580	7,253	
75 TO	100,000	78,850	468.77	0	0	0	2	157,700	938	
100 TO	150,000	127,425	745.64	0	0	0	12	1,529,100	8,948	
150 TO	200,000	152,500	888.57	0	0	0	1	152,500	889	
200 TO	300,000	270,740	1536.36	0	0	0	5	1,353,700	7,682	
300 TO	400,000	340,843	1910.01	0	0	0	7	2,385,901	13,370	
400 TO	500,000	0	0.00	0	0	0	0	0	0	
500 TO	ABOVE	0	0.00	0	0	0	0	0	0	
SUBTOTALS				0	0	\$0	186	9,348,040	\$58,412	

2" METERS:

USAGE/MON	AVG	AVG			RESIDENTIAL			COMMERCIAL		
		BILL	NO. BILLS		USAGE	INCOME	NO. BILLS	USAGE	INCOME	
0 TO	16,000	2,056	112.15	0	0	0	90	185,040	10,094	
16 TO	18,000	17,000	117.85	0	0	0	3	51,000	354	
18 TO	20,000	19,020	129.36	0	0	0	5	95,100	647	
20 TO	25,000	23,460	154.67	0	0	0	10	234,600	1,547	
25 TO	30,000	27,864	179.77	0	0	0	11	306,504	1,977	
30 TO	40,000	35,390	222.67	0	0	0	20	707,800	4,453	
40 TO	50,000	44,700	275.74	0	0	0	27	1,206,900	7,445	
50 TO	75,000	62,814	378.99	0	0	0	37	2,324,118	14,023	
75 TO	100,000	87,232	518.17	0	0	0	50	4,361,600	25,909	
100 TO	150,000	117,309	689.61	0	0	0	35	4,105,815	24,136	
150 TO	200,000	176,650	1027.86	0	0	0	8	1,413,200	8,223	
200 TO	300,000	228,742	1314.14	0	0	0	12	2,744,904	15,770	
300 TO	400,000	349,900	1959.92	0	0	0	2	699,800	3,920	
400 TO	500,000	415,300	2308.50	0	0	0	2	830,600	4,617	
500 TO	750,000	0	0.00	0	0	0	0	0	0	
750 TO	1.0 M	0	0.00	0	0	0	0	0	0	
1.0 TO	1.5 M	1,294,770	6023.40	0	0	0	10	12,947,700	60,234	
1.5 TO	ABOVE	1,520,250	6909.53	0	0	0	2	3,040,500	13,819	
SUBTOTALS				0	0	\$0	324	35,255,181	\$197,168	

3" METERS:

USAGE/MON	AVG	AVG			RESIDENTIAL			COMMERCIAL		
		BILL	NO. BILLS		USAGE	INCOME	NO. BILLS	USAGE	INCOME	
0 TO	30,000	0	0.00	0	0	0	0	0	0	
30 TO	40,000	0	0.00	0	0	0	0	0	0	
40 TO	50,000	0	0.00	0	0	0	0	0	0	
50 TO	75,000	50,700	339.58	0	0	0	1	50,700	340	
75 TO	100,000	0	0.00	0	0	0	0	0	0	
100 TO	150,000	123,000	751.69	0	0	0	2	246,000	1,503	
150 TO	200,000	182,750	1092.27	0	0	0	6	1,096,500	6,554	
200 TO	300,000	232,983	1366.39	0	0	0	6	1,397,898	8,198	
300 TO	400,000	360,150	2044.19	0	0	0	8	2,881,200	16,354	
400 TO	500,000	478,100	2672.86	0	0	0	1	478,100	2,673	
500 TO	750,000	0	0.00	0	0	0	0	0	0	
750 TO	1.0 M	0	0.00	0	0	0	0	0	0	
1.0 TO	1.5 M	0	0.00	0	0	0	0	0	0	
1.5 TO	ABOVE	0	0.00	0	0	0	0	0	0	
SUBTOTALS				0	0	\$0	24	6,150,398	\$35,622	

4" METERS:

<u>USAGE/MON</u>		<u>AVG</u>	<u>AVG</u>		<u>RESIDENTIAL</u>			<u>COMMERCIAL</u>		
			<u>BILL</u>	<u>NO. BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	<u>NO. BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	
0 TO	50,000	14,325	342.10	0	0	0	62	888,150	21,210	
50 TO	75,000	61,297	406.49	0	0	0	6	367,782	2,439	
75 TO	100,000	93,000	587.20	0	0	0	6	558,000	3,523	
100 TO	150,000	126,114	775.95	0	0	0	29	3,657,306	22,503	
150 TO	200,000	159,333	965.30	0	0	0	3	477,999	2,896	
200 TO	300,000	220,130	1304.39	0	0	0	3	660,390	3,913	
300 TO	400,000	346,176	1976.22	0	0	0	5	1,730,880	9,881	
400 TO	500,000	432,756	2437.69	0	0	0	9	3,894,804	21,939	
500 TO	750,000	581,044	3228.06	0	0	0	8	4,648,352	25,824	
750 TO	1.0 M	0	0.00	0	0	0	0	0	0	
1.0 TO	1.5 M	0	0.00	0	0	0	0	0	0	
1.5 TO	ABOVE	0	0.00	0	0	0	0	0	0	
SUBTOTALS				0	0	\$0	131	16,883,663	\$114,128	

6" METERS:

<u>USAGE/MON</u>		<u>AVG</u>	<u>AVG</u>		<u>RESIDENTIAL</u>			<u>COMMERCIAL</u>		
			<u>BILL</u>	<u>NO. BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	<u>NO. BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	
0 TO	100,000	18,270	642.31	0	0	0	58	1,059,660	37,254	
100 TO	150,000	127,550	799.35	0	0	0	6	765,300	4,796	
150 TO	200,000	172,943	1058.09	0	0	0	14	2,421,202	14,813	
200 TO	300,000	227,177	1357.16	0	0	0	13	2,953,301	17,643	
300 TO	400,000	324,450	1875.63	0	0	0	4	1,297,800	7,503	
400 TO	500,000	442,100	2502.70	0	0	0	2	884,200	5,005	
500 TO	750,000	0	0.00	0	0	0	0	0	0	
750 TO	1.0 M	0	0.00	0	0	0	0	0	0	
1.0 TO	1.5 M	0	0.00	0	0	0	0	0	0	
1.5 TO	2.0 M	1,903,167	8465.76	0	0	0	3	5,709,501	25,397	
2.0 TO	2.5 M	2,050,600	9045.17	0	0	0	4	8,202,400	36,181	
2.5 TO	3.0 M	2,611,800	11250.68	0	0	0	1	2,611,800	11,251	
3.0 TO	4.0 M	0	0.00	0	0	0	0	0	0	
4.0 TO	5.0 M	0	0.00	0	0	0	0	0	0	
5.0 TO	ABOVE	0	0.00	0	0	0	0	0	0	
SUBTOTALS				0	0	\$0	105	25,905,164	\$159,843	

8" METERS:

<u>USAGE/MON</u>		<u>AVG</u>	<u>AVG</u>		<u>RESIDENTIAL</u>			<u>COMMERCIAL</u>		
			<u>BILL</u>	<u>NO. BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	<u>NO. BILLS</u>	<u>USAGE</u>	<u>INCOME</u>	
0 TO	160,000	60,933	1006.09	0	0	0	39	2,376,387	39,238	
160 TO	200,000	0	0.00	0	0	0	0	0	0	
200 TO	300,000	260,933	1558.86	0	0	0	6	1,565,598	9,353	
300 TO	400,000	350,133	2034.30	0	0	0	12	4,201,596	24,412	
400 TO	500,000	451,450	2574.32	0	0	0	2	902,900	5,149	
500 TO	750,000	630,100	3484.38	0	0	0	5	3,150,500	17,422	
750 TO	1.0 M	865,560	4409.74	0	0	0	5	4,327,800	22,049	
1.0 TO	1.5 M	1,314,450	6173.88	0	0	0	8	10,515,600	49,391	
1.5 TO	2.0 M	1,686,400	7635.64	0	0	0	3	5,059,200	22,907	
2.0 TO	2.5 M	0	0.00	0	0	0	0	0	0	
2.5 TO	3.0 M	0	0.00	0	0	0	0	0	0	
3.0 TO	4.0 M	0	0.00	0	0	0	0	0	0	
4.0 TO	5.0 M	0	0.00	0	0	0	0	0	0	
5.0 TO	ABOVE	0	0.00	0	0	0	0	0	0	
SUBTOTALS				0	0	\$0	80	32,099,581	\$189,921	

4" FIRE SERVICE METERS:

USAGE/MON	AVG	RESIDENTIAL			COMMERCIAL			
		AVG BILL	NO. BILLS	USAGE	INCOME	NO. BILLS	USAGE	INCOME
0 TO 50,000	35	142.96	0	0	0	108	3,780	15,440
50 TO 75,000	0	0.00	0	0	0	0	0	0
75 TO 100,000	0	0.00	0	0	0	0	0	0
100 TO 150,000	0	0.00	0	0	0	0	0	0
150 TO 200,000	0	0.00	0	0	0	0	0	0
200 TO 300,000	0	0.00	0	0	0	0	0	0
300 TO 400,000	0	0.00	0	0	0	0	0	0
400 TO 500,000	0	0.00	0	0	0	0	0	0
500 TO 750,000	0	0.00	0	0	0	0	0	0
750 TO 1.0 M	0	0.00	0	0	0	0	0	0
1.0 TO 1.5 M	0	0.00	0	0	0	0	0	0
1.5 TO ABOVE	0	0.00	0	0	0	0	0	0
SUBTOTALS			0	0	\$0	108	3,780	\$15,440

6" FIRE SERVICE METERS:

USAGE/MON	AVG	RESIDENTIAL			COMMERCIAL			
		AVG BILL	NO. BILLS	USAGE	INCOME	NO. BILLS	USAGE	INCOME
0 TO 100,000	4	355.58	0	0	0	72	288	25,602
100 TO 150,000	0	0.00	0	0	0	0	0	0
150 TO 200,000	0	0.00	0	0	0	0	0	0
200 TO 300,000	0	0.00	0	0	0	0	0	0
300 TO 400,000	0	0.00	0	0	0	0	0	0
400 TO 500,000	0	0.00	0	0	0	0	0	0
500 TO 750,000	0	0.00	0	0	0	0	0	0
750 TO 1.0 M	0	0.00	0	0	0	0	0	0
1.0 TO 1.5 M	0	0.00	0	0	0	0	0	0
1.5 TO 2.0 M	0	0.00	0	0	0	0	0	0
2.0 TO 2.5 M	0	0.00	0	0	0	0	0	0
2.5 TO 3.0 M	0	0.00	0	0	0	0	0	0
3.0 TO 4.0 M	0	0.00	0	0	0	0	0	0
4.0 TO 5.0 M	0	0.00	0	0	0	0	0	0
5.0 TO ABOVE	0	0.00	0	0	0	0	0	0
SUBTOTALS			0	0	\$0	72	288	\$25,602

TOTALS	36,401	168,477,674	1,293,211	4,361	154,119,996	994,208
TOTAL CUSTOMERS	3,033			363		
AVG. CONSUMPTION PER MONTH		4,628			35,341	
ANNUAL WATER SOLD		168,477,674			154,119,996	
ANNUAL WATER PURCH. OR PROD.		<u>210,435,415</u>			<u>192,502,095</u>	
ANNUAL REVENUE			\$1,293,211			\$994,208
TOTAL ANNUAL WATER SOLD		322,597,670				
TOTAL ANNUAL WATER PURCH. OR PROD.		402,937,510				
TOTAL ANNUAL REVENUE			<u>\$2,287,419</u>	(1), (2)		

NOTES:

- (1) DOES NOT INCLUDE FULL YEAR OF FRITZ WINTER REVENUE
- (2) DOES NOT INCLUDE NEW CUSTOMERS

XIV. FACILITY CHARACTERISTICS OF PROPOSED SEWER SYSTEM

Not Applicable

XV. LAND AND RIGHTS - PROPOSED SEWER SYSTEM

Not Applicable

XVI. FACILITY CHARACTERISTICS OF PROPOSED WATER SYSTEM

A. Water Source: Describe adequacy of source (quality and quantity). Include an explanation of raw water source, raw water intake structure, treatment plant capacity, and current level of production (WTP). Also, describe the adequacy of Water Purchase Contract if applicable.

The District purchases water from White House Utility District, headquartered in White House, Tennessee. The White House UD WTP has ample capacity to supply The District's existing customers and projected future growth. White House draws water from the Cumberland River. The District has a long-term contract with White House UD which includes incremental growth triggers for capacity upgrades.

B. Water Storage:

Type: Ground Storage Tank: **Yes** Elevated Tank: **Yes**
 Standpipe: **No** Other:

Number of Storage Structures: **7**

Total Storage Volume Capacity: **2,150,000 Gallons**

Date(s) Storage Tank(s) Constructed: **1966 – 2001**

C. Water Distribution System

Pipe Material: **Polyvinyl Chloride, Cast Iron, Ductile Iron, Asbestos Cement**

Lineal Feet of Pipe: 3" Diameter: **627,152** 4": **807,210**
 6": **322,044** 8": **222,685**
 10": **52,756** 12": **33,154**

Date(s) Water Lines Constructed: **1966 – 2018**

Number and Capacity of Pump Station(s): **8, Capacity: 90 – 1,100 GPM**

XVII. LAND AND RIGHTS – PROPOSED WATER SYSTEM

Number of Treatment Plant Sites: Water **0** Sewer **NA**

Number of Storage Tank Sites: Water **7** Sewer **NA**

Number of Pump Stations: Water **8** Sewer **NA**

Total Acreage: Water **3±** Sewer **NA Acres**

Purchase Price: Water **\$90,000±** Sewer **NA**

XVIII. NUMBER OF NEW SEWER USERS

Not Applicable

XIX. PROPOSED SEWER CONNECTION FEES FOR EACH SIZE WATER METER

Not Applicable

XX. NUMBER OF NEW WATER USERS

Residential (In Town) *	ZERO
Residential (out of Town) *	5
Non-Residential (Out of Town)	ZERO
Total	5
Number to Total Potential Users Living in the Service Area	5

*Note: Residential Users: Classify by type of user regardless of quantity of water used. This classification should include those meters serving individual rural residence.

XXI. PROPOSED WATER CONNECTION FEES FOR EACH SIZE WATER METER CONNECTION:

<u>Meter Size</u>	<u>Connection Fee</u>
5/8" x 3/4"	\$450.00
1 – Inch	\$850.00
1-1/2 – Inch	Actual Cost of Installation
2 – Inch	Actual Cost of Installation
3 – Inch	Actual Cost of Installation
4 – Inch	Actual Cost of Installation
5 – Inch	NA
6 – Inch	Actual Cost of Installation

XXII. SEWER RATES – PROPOSED

Not Applicable

XXIII. WATER RATES – PROPOSED

PROPOSED RATE SCHEDULE
SIMPSON COUNTY WATER DISTRICT

A. MONTHLY RATES*

1. General Service

5/8 X 3/4-Inch Meter

First	2,000 Gallons	\$ 17.68 Minimum Bill
Next	8,000 Gallons	6.37 per 1,000 Gallons
Next	190,000 Gallons	5.70 per 1,000 Gallons
Next	400,000 Gallons	5.33 per 1,000 Gallons
Over	600,000 Gallons	3.93 per 1,000 Gallons

3/4-Inch Meter

First	3,000 Gallons	\$24.61 Minimum Bill
Next	7,000 Gallons	6.37 per 1,000 Gallons
Next	190,000 Gallons	5.70 per 1,000 Gallons
Next	400,000 Gallons	5.33 per 1,000 Gallons
Over	600,000 Gallons	3.93 per 1,000 Gallons

1--Inch Meter

First	5,000 Gallons	\$37.89 Minimum Bill
Next	5,000 Gallons	6.37 per 1,000 Gallons
Next	190,000 Gallons	5.70 per 1,000 Gallons
Next	400,000 Gallons	5.33 per 1,000 Gallons
Over	600,000 Gallons	3.93 per 1,000 Gallons

1-1/2-Inch Meter

First	10,000 Gallons	\$76.32 Minimum Bill
Next	190,000 Gallons	5.70 per 1,000 Gallons
Next	400,000 Gallons	5.33 per 1,000 Gallons
Over	600,000 Gallons	3.93 per 1,000 Gallons

2-Inch Meter

First	16,000 Gallons	\$112.15 Minimum Bill
Next	184,000 Gallons	5.70 per 1,000 Gallons
Next	400,000 Gallons	5.33 per 1,000 Gallons
Over	600,000 Gallons	3.93 per 1,000 Gallons

3-Inch Meter

First	30,000 Gallons	\$221.59 Minimum Bill
Next	170,000 Gallons	5.70 per 1,000 Gallons
Next	400,000 Gallons	5.33 per 1,000 Gallons
Over	600,000 Gallons	3.93 per 1,000 Gallons

4-Inch Meter

First	50,000 Gallons	\$342.10 Minimum Bill
Next	150,000 Gallons	5.70 per 1,000 Gallons
Next	400,000 Gallons	5.33 per 1,000 Gallons
Over	600,000 Gallons	3.93 per 1,000 Gallons

6-Inch Meter

First	100,000 Gallons	\$642.31 Minimum Bill
Next	100,000 Gallons	5.70 per 1,000 Gallons
Next	400,000 Gallons	5.33 per 1,000 Gallons
Over	600,000 Gallons	3.93 per 1,000 Gallons

8-Inch Meter

First	160,000 Gallons	\$1,006.09 Minimum Bill
Next	40,000 Gallons	5.70 per 1,000 Gallons
Next	400,000 Gallons	5.33 per 1,000 Gallons
Over	600,000 Gallons	3.93 per 1,000 Gallons

10-Inch Meter

First	550,000 Gallons	\$3,114.80 Minimum Bill
Next	50,000 Gallons	5.33 per 1,000 Gallons
Over	600,000 Gallons	3.93 per 1,000 Gallons

* These rates apply to all customer classifications and are subject to 10 percent late payment charge if paid after the due date.

2. Private Fire Service Rates**

<u>Service Size</u>	<u>Monthly Customer Charge</u>
1-inch	\$10.37
1.5-inch	\$17.46
2-inch	\$27.03
3-inch	\$67.86
4-inch	\$142.96
6-inch	\$355.58
8-inch	\$713.09
10-inch	\$1,253.36

**Private Fire Service charges shall apply to all connections which provide service only for private fire protection facilities whether supplied through a fully metered service or an unmetered service with a detector check valve and bypass meter. Customer charges are lump sum charges according to the applicable service size with zero water usage. In case of a fire, charges for water usage shall be in accordance with Simpson County Water District Tariff Section II. F. Fire Protection. Charges for all water usage shall be computed in accordance with prevailing Simpson County Water District rates for general service. Where a detector check valve with a bypass meter is used, the water usage shall be based on the combined volume of water used through both the detector check valve (estimated) and the bypass meter. All rates are subject to a 10 percent late payment charge if paid after due date.

XXIV. FORECAST OF SEWER USAGE – INCOME – EXISTING SYSTEM – EXISTING USERS

Not Applicable

XXV. FORECAST OF SEWER USAGE – INCOME – NEW USERS – EXTENSION ONLY

Not Applicable

XXVI. FORECAST OF WATER USAGE - INCOME - EXISTING SYSTEM - EXISTING USERS

See section XXIII above.

XXVII. FORECAST OF WATER USAGE – INCOME – NEW USERS – EXTENSION ONLY

5/8 X 3/4 INCH METER

<u>MONTHLY WATER USAGE</u>			<u>Average</u>	<u>Average Bill</u>	No. of Users	<u>Residential/ Farmer Usage</u>	Income
0	-	2,000 Gal.	1,128	17.68	1	13,536	\$212
2,000	-	3,000 Gal.	2,509	20.92	1	30,108	251
3,000	-	4,000 Gal.	3,485	27.14	1	41,820	326
4,000	-	5,000 Gal.	4,478	33.46	1	53,736	402
5,000	-	6,000 Gal.	0	0.00	0	0	0
6,000	-	7,000 Gal.	0	0.00	0	0	0
7,000	-	8,000 Gal.	0	0.00	0	0	0
8,000	-	9,000 Gal.	0	0.00	0	0	0
9,000	-	10,000 Gal.	0	0.00	0	0	0
10,000	-	11,000 Gal.	0	0.00	0	0	0
11,000	-	12,000 Gal.	0	0.00	0	0	0
12,000	-	14,000 Gal.	0	0.00	0	0	0
14,000	-	16,000 Gal.	0	0.00	0	0	0
16,000	-	18,000 Gal.	0	0.00	0	0	0
18,000	-	20,000 Gal.	0	0.00	0	0	0
20,000	-	25,000 Gal.	0	0.00	0	0	0
25,000	-	30,000 Gal.	0	0.00	0	0	0
30,000	-	40,000 Gal.	0	0.00	0	0	0
40,000	-	50,000 Gal.	0	0.00	0	0	0
50,000	-	75,000 Gal.	0	0.00	0	0	0
75,000	-	100,000 Gal.	0	0.00	0	0	0
100,000	&	ABOVE Gal.	0	0.00	0	0	0
ANNUAL TOTALS					4	139,200	\$1,190
AVG. RATE				\$8.55			
AVG. USAGE				2,900			

CURRENT OPERATION BUDGET – (SEWER SYSTEM)

(As of the last full operating year.)

Not Applicable

XXVIII. PROPOSED OPERATING BUDGET – (SEWER SYSTEM) – EXISTING SYSTEM
AND NEW USERS (1st Full Year of Operation) Year Ending 2014

Not Applicable

XXIX. PROPOSED OPERATING BUDGET – (SEWER SYSTEM) – NEW USERS –
EXTENSION ONLY (1st Full Year of Operation) Year Ending 2014

Not Applicable

XXX. CURRENT OPERATING BUDGET – (WATER SYSTEM)
(As of the last full operating year.)

A. Operating Income	
Meter Sales Revenue	\$2,083,705
Forfeited Discounts	26,694
Misc. Service Revenue	23,905
Other Water Revenue	2,047
Income-Interest	13,701
Rental Income/ Utility Prop	19,061
Total Operating Income	\$2,169,113
B. Operation and Maintenance Expenses	
Source of Supply	\$1,063,594
Pumping	22,947
Water Treatment	0
Transmission & Dist.	421,256
Customer Accounts	86,932
Admin. & General	51,367
Total Operating Expenses	<u>\$1,646,096</u>
Net Operating Income	\$523,017
C. Other Expenses	
Short Lived Assets – Annual Reserve	<u>\$272,000</u>
D. Net Income	\$251,017
E. Debt Repayment	
Interest – RD & KRWFC Existing Loans	\$84,534
Principal – RD & KRWFC Existing Loans	131,000
Total Debt Payment	<u>\$215,534</u>
F. Balance Available for Coverage	\$35,483

XXXI. PROPOSED OPERATING BUDGET – (WATER SYSTEM) – EXISTING SYSTEM
AND NEW USERS (1st Full Year of Operation) Year Ending 12/31/2021

A.	Operating Income	
	Meter Sales Revenue	\$2,298,609
	Forfeited Discounts	26,694
	Misc. Service Revenue	23,905
	Other Water Revenue	2,047
	Income-Interest	13,701
	Rental Income/ Utility Prop	19,061
	Total Operating Income	\$2,384,017
B.	Operation and Maintenance Expenses	
	Source of Supply	\$1,063,964
	Pumping	26,772
	Water Treatment	0
	Transmission & Dist.	425,215
	Customer Accounts	86,932
	Admin. & General	51,690
	Total Operating Expenses	<u>\$1,654,573</u>
	Net Operating Income	\$729,444
C.	Other Expenses	
	Short Lived Assets – Annual Reserve	<u>\$272,000</u>
D.	Net Income	\$457,444
E.	Debt Repayment	
	Interest – RD & KRWFC & New Loans	\$143,089
	Principal – RD & KRWFC & New Loans	125,409
	Total Debt Payment	<u>\$268,498</u>
F.	Balance Available for Coverage	\$188,946

XXXII. PROPOSED OPERATING BUDGET – (WATER SYSTEM) – NEW USERS – EXTENSION ONLY (1st Full Year of Operation) Year Ending 2018

A. Operating Income	
Meter Sales Revenue	\$1,190
Forfeited Discounts	0
Misc. Service Revenue	0
Other Water Revenue	0
Total Operating Income	\$1,190
B. Operation and Maintenance Expenses	
Source of Supply	\$370
Pumping	3,825
Water Treatment	0
Transmission & Dist.	3,959
Customer Accounts	0
Admin. & General	323
Total Operating Expenses	<u>\$8,477</u>
Net Operating Income	-\$7,287
C. Other Expenses	
Short Lived Assets – Annual Reserve	\$0
D. Net Income	-\$7,287
E. Debt Repayment	
RD Interest (Proposed Loan)	53,533
RD Principal (Proposed Loan)	18,089
Interest – RD & KRWFC Existing Loans	\$0
Principal – RD & KRWFC Existing Loans	0
Total Debt Payment	\$71,622
F. Balance Available for Coverage	-\$64,335

XXXIII. ESTIMATED PROJECT COST – SEWER

Not Applicable

XXXIV. PROPOSED PROJECT FUNDING – SEWER

Not Applicable

XXXV. ESTIMATED PROJECT COST – WATER

Development	\$ 1,895,000.00
Land and Rights	5,000.00
Legal	6,000.00
Engineering	163,000.00
Interest	33,300.00
Contingencies	190,000.00
Initial Operating and Maintenance	0.00
Administrative	<u>25,000.00</u>
 TOTAL	 \$ 2,317,300.00

XXXVI. ESTIMATED PROJECT FUNDING

Rural Development Loan	\$ 1,529,500.00
EDA Grant	665,000.00
District Contribution w/ Tap Fees	<u>122,800.00</u>
 TOTAL	 \$ 2,317,300.00