

Preliminary Engineering Report

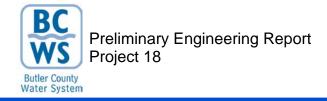
Project 18

November, 2016

Butler County Water System



Prepared by the Engineering Staff of Butler County Water System, Inc.



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General

Butler County Water System, Inc. (Butler Water) provides water service to Butler County, KY outside the service area of the Morgantown Utilities Commission. In addition, Butler Water serves a portion of eastern Muhlenberg County. As of November 2016, Butler Water serves approximately 4,800 active customers. It is estimated that there are approximately 13 households within the Water System's service area that do not have access to an approved public water supply. The people living in almost all of these households are drinking contaminated water and the Water System is continuing its efforts to alleviate this problem. The Water System will also install an Automatic Meter Reading (AMR) system to improve the efficiency of the meter reading operation and improve water accountability for the entire service area.

The Water System has applied to Rural Development (RD) for funds to construct water lines in five (5) areas of Butler County that do not have a source of pure drinking water. The project also includes installation of an AMR system. The information provided in this report more fully describes the proposed project (Project 18), the need for the improvements, and supplies appropriate financial summaries.

Summary and Conclusions

The water line extensions and other system improvements referred to as Project 18 and as illustrated on the enclosed map (Exhibit A) are greatly needed to alleviate a serious health hazard. Examples of the current water supplies for the specific households effected by the project are collecting rain water off the house roof, drawing water from a wet-weather pond, and hauling water in a 275 gallon plastic tote on a trailer. These methods of obtaining water expose the members of the household to fecal material and parasites.

The proposed project to serve approximately 10 new households and upgrade the metering system is economically feasible with a 9.75 percent general rate increase and a \$1,730,000 loan from RD. The project qualifies for the RD intermediate level interest rate on loan funds (1.875 percent).

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Project Description

The proposed project consists of construction of approximately 22,860 feet of 4-inch water mains and appurtenances. Approximately 10 meters will be installed adjacent to the mains to serve approximately 23 people. As shown on the enclosed map (Exhibit A), the extensions are located throughout the Water System's service area. The AMR system installation will require modifications to all 4,800 customer meters.

The Project Budget, which includes estimates of various costs and funding sources for the project, is presented on the next page.



PROJECT BUDGET WATER SYSTEM ADDITIONS - PROJECT 18 LINE EXTENSIONS & AMR SYSTEM BUTLER COUNTY WATER SYSTEM, INC.

PROJECT COSTS:

1. Construction			
a. Distribution Lines	\$385,000.00		
b. Automated Meter Reading System	\$950,000.00		
c. Accoustic Listening Devices	\$200,000.00		
		\$ 1	,535,000.00
2. Engineering			
a. Design & General Engineering During Construction	\$ 46,800.00		
b. Inspection	\$ 15,400.00		
		\$	62,200.00
3. Administrative Expenses		\$	10,000.00
4. Easement and Site Acquisition		\$	5,000.00
5. Legal Costs		\$	6,200.00
6. Interest During Construction		\$	33,500.00
7. Contingency		\$	82,600.00
TOTAL PROJECT COST		\$ 1	,734,500.00
PROJECT FUNDING:			
1. RD Loan		\$ 1	,730,000.00
2. Water System Contribution - Tap Fees		\$	4,500.00
TOTAL FUNDING		\$ 1	,734,500.00



Household Income Information

Qualifications for funding from RD are based in part on the median income level of the households affected by the project. In order to qualify for the intermediate interest rate available, the median income level for households in the project area must be below \$43,342. An examination of U.S. Census data indicates that the median household income in Butler County is \$34,581. Since this income level is well below the required amount, the project qualifies for the intermediate level interest rate of 1.875 percent on RD loan funds.

Financial Considerations and Proposed Water Rates

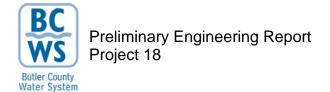
The methodology used in developing the Butler Water's existing rate schedule was taken from the American Water Works Association, Manual M-1, <u>Water Rates</u>, Section 5, "Rate Design for Small Utilities", published by the AWWA in 2000. Basic philosophy and methodology presented in other sections of that manual were also incorporated into the rate design.

It was determined that with the additional debt service and operating expenses resulting from the proposed project, a rate increase averaging 9.75 percent is required. This increase will also allow an adequate margin for depreciation funds to be accumulated for system maintenance, minor improvements, and special programs.



As Butler Water's facilities continue to age and more facilities are added, the need for expenditures on maintenance and upkeep is expected to increase. Examples of major upcoming expenditures from depreciation funds include tank maintenance, plant maintenance, meter and line replacement programs. These are only a few examples of the many uses of depreciation funds that are required for system upkeep. Therefore, it is very important for Butler Water to implement water rates that result in sufficient revenue so that these funds will be available.

The schedule of water rates recommended in conjunction with this project is shown on the following page. Following the rate schedule is the Proforma Adjustment which shows the estimated revenues (which include the rate increase) and expenses for the first full year of operation after the completion of Project 18. Appendix A contains the Analysis of Actual Water Usage and Forecast of Water Usage income for the first year of operation. Appendix B contains the Forecast of Water Usage income for the new users.



Schedule of Proposed Water Rates (Includes 9.75% Rate Adjustment)

5/8 X 3/4-Inch Meter

First	2,000 Gallons
Next	4,000 Gallons
Next	44,000 Gallons
Next	50,000 Gallons
Over	100,000 Gallons

1-Inch Meter

First	5,000 Gallons
Next	1,000 Gallons
Next	44,000 Gallons
Next	50,000 Gallons
Over	100,000 Gallons

1-1/2-Inch Meter

First	10,000 Gallons
Next	40,000 Gallons
Next	50,000 Gallons
Over	100,000 Gallons

2-Inch Meter

First	16,000 Gallons
Next	34,000 Gallons
Next	50,000 Gallons
Over	100,000 Gallons

3-Inch Meter

First	25,000 Gallons
Next	25,000 Gallons
Next	50,000 Gallons
Over	100,000 Gallons

4-Inch Meter

First	30,000 Gallons
Next	20,000 Gallons
Next	50,000 Gallons
Over	100,000 Gallons

6-Inch Meter

First	60,000 Gallons
Next	40,000 Gallons
Over	100,000 Gallons

8-Inch Meter

First	80,000 Gallons
Next	20,000 Gallons
Over	100,000 Gallons

\$20.35 Minimum Bill 5.89 per 1,000 Gallons 5.24 per 1,000 Gallons 4.50 per 1,000 Gallons 3.75 per 1,000 Gallons

\$38.61 Minimum Bill 5.89 per 1,000 Gallons 5.24 per 1,000 Gallons 4.50 per 1,000 Gallons 3.75 per 1,000 Gallons

\$68.99 Minimum Bill 5.24 per 1,000 Gallons 4.50 per 1,000 Gallons 3.75 per 1,000 Gallons

\$101.26 Minimum Bill 5.24 per 1,000 Gallons 4.50 per 1,000 Gallons 3.75 per 1,000 Gallons

\$164.37 Minimum Bill 5.24 per 1,000 Gallons 4.50 per 1,000 Gallons 3.75 per 1,000 Gallons

\$227.39 Minimum Bill 5.24 per 1,000 Gallons 4.50 per 1,000 Gallons 3.75 per 1,000 Gallons

\$397.19 Minimum Bill 4.50 per 1,000 Gallons 3.75 per 1,000 Gallons

\$503.80 Minimum Bill 4.50 per 1,000 Gallons 3.75 per 1,000 Gallons

PROFORMA ADJUSTMENT WITH LINE EXTENSIONS & AMR WATER SYSTEM ADDITIONS - PROJECT 18 BUTLER COUNTY WATER SYSTEMS, INC.

	EXISTING SYSTEM	CHANGES ON EXISTING SYSTEM		CHANGES DUE TO NEW PROJECT 18 CUSTOMERS		TOTAL FUTURE SYSTEM AFTER PROJECT
OPERATING REVENUE:	<u>0.0.2.m</u>	<u></u>		<u>00010112110</u>		
METERED & OTHER						
Meter Sales Revenue	\$1,844,222	\$179,857	(1)	\$3,144	(3)	\$2,027,223
Forfeited Discounts	31,389	0		0		31,389
Misc. Service Revenue	27,595	0		0		27,595
Other Water Revenue	55	0		0		55
Income-Interest	7,670	0		0		7,670
Disposition Gain/Losses.	<u>3,875</u>	<u>0</u>		<u>0</u>		<u>3,875</u>
TOTAL OPERATING REVENUE	\$1,914,806	\$179,857		\$3,144		\$2,097,807
OPERATING EXPENSE: SOURCE OF SUPPLY & PUMP. EXP.						
Salaries and Wages	\$365,290	\$0		(\$60,000)	(4)	\$305,290
Commissioner Fees	18,000	¢0 0		(\$00,000)	(-)	18,000
Employee Overhead	238,758	0		(39,217)	(4)	199,541
Purchased Water	0	0		0	()	0
Purchased Power	129,443	0		163	(5)	129,606
Chemicals	54,220	0		68	(5)	54,288
Materials & Supplies	46,336	0		360	(5)	
Cont. Services-Engr	0	0		0		
Cont. Services-Accounting	9,474	0		0		9,474
Cont. Services-Legal	0	0		0		0
Cont. Services-Other	143,795	0		181	(5)	143,976
Rental of Building & Utilities	15,400	0		0	_	15,400
Equipment Expense	56,403	0		438	(5)	56,841
Insurance-Gen'l Liability	23,999	0		0 0		
Insurance-Other	1,065 3,697	0		0		
Regulatory Expense Bad Debt Expense	2,402	0		5		2,407
Misc. Expense	<u>3,170</u>	<u>0</u>		<u>0</u>		<u>3,170</u>
	0,110	<u>v</u>		<u>v</u>		<u>0,110</u>
TOTAL OPERATING EXPENSE	\$1,111,452	\$0		(\$98,002)		\$1,013,450
OTHER EXPENSES						
Depreciation	\$589,994	\$0		\$65,200	(6)	\$655,194
Misc. Non-Operating Income	(21)	0		0		(21)
Misc. Non Operating Expense	0	0		0		0
Unamortized Debt Expense	<u>6,440</u>	<u>0</u>		<u>0</u>		<u>6,440</u>
TOTAL OTHER EXPENSES	596,413	0		65,200		661,613
PRINCIPAL & INTEREST EXPENSE:						
Existing Principal - Other	\$150,000	(10,000)	(2)	0		140,000
Existing Interest - Other	96,520	(16,100)	(2)	0		80,420
Existing Principal - RDA	59,908	(6,766)	(2)	0		53,142
Existing Interest - RDA	69,518	(10,135)	(2)	0		59,383
New Principal - RDA	0	0		54,879	(7)	54,879
New Interest - RDA	<u>0</u>	<u>0</u>		<u>32,438</u>	(7)	<u>32,438</u>
TOTAL PRINCIPAL & INTEREST	375,946	(43,001)		87,316		420,261
TOTAL EXPENSES	<u>\$2,083,811</u>	<u>(\$43,001)</u>	-	<u>\$54,515</u>		<u>\$2,095,325</u>
NET UTILITY OPERATING INCOME	<u>(\$169,005)</u>	\$222,858		<u>(\$51,371)</u>		<u>\$2,482</u>

NOTES:

(1) PROJECT 18 RATE INCREASE ON EXISTING CUSTOMERS OF 9.75%

(2) ADJUSTMENT BASED ON LOAN AMORTIZATION SCHEDULES FOR FIRST FULL YEAR OF OPERATION

(3) REVENUE FROM NEW CUSTOMERS

(4) METER READING LABOR & OVERHEAD SAVINGS DUE TO AMR

(5) INCREASE IN EXPENSE BASED ON IMPROVEMENTS TO SERVE NEW CUSTOMERS

(6) DEPRECIATION FOR WATER LINE IMPROVEMENTS (50 YR) & AMR SYSTEM (20 YR)

(7) PRINCIPAL & INTEREST PAYMENT FOR PROJECT BASED ON 25 YR TERM &1.875% INTEREST RATE



Appendix A

ANALYSIS OF ACTUAL WATER USAGE AND FORECAST OF WATER USAGE INCOME

INCLUDES 9.75% RATE INCREASE AS PROPOSED)

5/8" METERS:

<u>5/8 IV</u>	IETER	<u>5:</u>				RESIDENTIAL				
				AVG						-
USAC	GE/MO	N	AVG	<u>BILL</u>	NO. BILLS	<u>USAGE</u>	INCOME	NO. BILLS	<u>USAGE</u>	INCOME
0	то	2,000	934	20.35	16,312	15,235,408	\$331,949	2,274	2,123,916	\$46,276
2	то	3,000	2,513	23.37	9,672	24,305,736	226,035	212	532,756	4,954
3	то	4,000	3,484	29.09	9,084	31,648,656	264,254	141	491,244	4,102
4	то	5,000	4,479	34.95	6,204	27,787,716	216,830	113	506,127	3,949
5	то	6,000	5,466	40.76	4,234	23,143,044	172,578	95	519,270	3,872
6	то	7,000	6,463	46.34	2,604	16,829,652	120,669	64	413,632	2,966
7	то	8,000	7,474	51.63	1,575	11,771,550	81,317	35	261,590	1,807
8	то	9,000	8,450	56.75	1,178	9,954,100	66,852	30	253,500	1,703
9	то	10,000	9,456	62.02	716	6,770,496	44,406	34	321,504	2,109
10	то	11,000	10,470	67.33	502	5,255,940	33,800	19	198,930	1,279
11	то	12,000	11,463	72.54	336	3,851,568	24,373	14	160,482	1,016
12	то	14,000	12,924	80.19	339	4,381,236	27,184	36	465,264	2,887
14	то	16,000	14,920	90.65	218	3,252,560	19,762	32	477,440	2,901
16	то	18,000	16,935	101.21	188	3,183,780	19,027	24	406,440	2,429
18	то	20,000	18,923	111.63	125	2,365,375	13,954	15	283,845	1,674
20	то	25,000	22,248	129.05	168	3,737,664	21,680	19	422,712	2,452
25	то	30,000	27,128	154.62	87	2,360,136	13,452	22	596,816	3,402
30	то	40,000	34,066	190.98	73	2,486,818	13,942	22	749,452	4,202
40	то	50,000	44,108	243.60	19	838,052	4,628	6	264,648	1,462
50	то	75,000	61,536	326.38	13	799,968	4,243	7	430,752	2,285
75	то	100,000	87,860	444.84	18	1,581,480	8,007	13	1,142,180	5,783
100	то	150,000	116,393	560.94	15	1,745,895	8,414	16	1,862,288	8,975
150	то	200,000	171,373	767.12	2	342,746	1,534	1	171,373	767
200	то	300,000	0	0.00	0	0	0	0	0	0
300	то	400,000	346,290	1423.06	1	346,290	1,423	0	0	0
400	то	500,000	0	0.00	0	0	0	0	0	0
500	то	ABOVE	0	0.00	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
		SUBTOTA	LS AVG. RATE		53,683	203,975,866 \$8.54	\$1,740,313	3,244	13,056,161	\$113,252
			AVG. USAG	E		3,800			4,025	

1" METERS

<u>1" ME</u>	TERS					<u>RESIDENTIAL</u>		COMMERCIAL			
				AVG							
USAGE/MON AVG BILL		<u>BILL</u>	NO. BILLS	<u>USAGE</u>	INCOME	<u>NO. BILLS</u>	<u>USAGE</u>	INCOME			
0	то	5,000	1,606	38.61	174	279,444	6,718	128	205,568	4,942	
5	то	6,000	5,550	41.85	27	149,850	1,130	6	33,300	251	
6	то	7,000	6,409	46.64	17	108,953	793	11	70,499	513	
7	то	8,000	7,402	51.85	15	111,030	778	11	81,422	570	
8	то	9,000	8,431	57.24	13	109,603	744	10	84,310	572	
9	то	10,000	9,456	62.61	10	94,560	626	12	113,472	751	
10	то	11,000	10,484	68.00	4	41,936	272	7	73,388	476	
11	то	12,000	11,513	73.39	8	92,104	587	11	126,643	807	
12	то	14,000	12,865	80.47	7	90,055	563	18	231,570	1,448	
14	то	16,000	14,944	91.37	10	149,440	914	8	119,552	731	
16	то	18,000	16,928	101.76	7	118,496	712	7	118,496	712	
18	то	20,000	18,921	112.21	8	151,368	898	8	151,368	898	
20	то	25,000	22,504	130.98	11	247,544	1,441	20	450,080	2,620	
25	то	30,000	27,597	157.67	8	220,776	1,261	25	689,925	3,942	
30	то	40,000	33,908	190.74	9	305,172	1,717	23	779,884	4,387	
40	то	50,000	44,039	243.82	3	132,117	731	6	264,234	1,463	
50	то	75,000	62,173	329.84	13	808,249	4,288	18	1,119,114	5,937	
75	то	100,000	87,382	443.28	1	87,382	443	11	961,202	4,876	
100	то	150,000	118,110	549.71	6	708,660	3,298	17	2,007,870	9,345	
150	то	200,000	173,849	758.73	2	347,698	1,517	11	1,912,339	8,346	
200	то	300,000	245,208	1026.33	2	490,416	2,053	11	2,697,288	11,290	
300	то	400,000	307,600	1260.30	0	0	0	1	307,600	1,260	
400	то	500,000	470,290	1870.39	0	0	0	1	470,290	1,870	
500	то	ABOVE	642,030	2514.41	<u>0</u>	<u>0</u>	<u>0</u>	1	<u>642,030</u>	<u>2,514</u>	
SUBTOTALS					355	4,844,853	\$31,484	382	13,711,444	\$70,521	

1 1/2" METERS:

<u> </u>						RESIDENTIAL		COMMERCIAL			
				AVG							
USAGE/MON AVG		<u>AVG</u>	<u>BILL</u>	<u>NO. BILLS</u>	<u>USAGE</u>	INCOME	<u>NO. BILLS</u>	<u>USAGE</u>	INCOME		
0	то	10,000	3,253	68.99	0	0	0	12	39,036	828	
10	то	11,000	0	0.00	0	0	0	0	0	0	
11	то	12,000	0	0.00	0	0	0	0	0	0	
12	то	14,000	0	0.00	0	0	0	0	0	0	
14	то	16,000	0	0.00	0	0	0	0	0	0	
16	то	18,000	17,100	106.19	0	0	0	1	17,100	106	
18	то	20,000	18,850	115.36	0	0	0	2	37,700	231	
20	то	25,000	24,150	143.14	0	0	0	2	48,300	286	
25	то	30,000	27,700	161.74	0	0	0	4	110,800	647	
30	то	40,000	31,100	179.55	0	0	0	1	31,100	180	
40	то	50,000	40,800	230.38	0	0	0	2	81,600	461	
50	то	75,000	60,425	325.50	0	0	0	4	241,700	1,302	
75	то	100,000	85,367	437.74	0	0	0	6	512,202	2,626	
100	то	150,000	104,250	519.53	0	0	0	2	208,500	1,039	
150	то	200,000	0	0.00	0	0	0	0	0	0	
200	то	300,000	0	0.00	0	0	0	0	0	0	
300	то	400,000	0	0.00	0	0	0	0	0	0	
400	то	500,000	0	0.00	0	0	0	0	0	0	
500	то	ABOVE	0	0.00	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
SUBTOTALS					0	0	\$0	36	1,328,038	\$7,706	

2" METERS:

						RESIDENTIAL		<u>COMMERCIAL</u>			
				AVG							
USAGE/MON AVG		<u>BILL</u>	<u>NO. BILLS</u>	<u>USAGE</u>	INCOME	NO. BILLS	<u>USAGE</u>	INCOME			
0	то	16,000	2,957	101.26	0	0	0	23	68,011	2,329	
16	то	18,000	0	0.00	0	0	0	0	0	0	
18	то	20,000	0	0.00	0	0	0	0	0	0	
20	то	25,000	22,267	134.10	0	0	0	3	66,801	402	
25	то	30,000	27,300	160.47	0	0	0	4	109,200	642	
30	то	40,000	36,770	210.09	0	0	0	10	367,700	2,101	
40	то	50,000	44,656	251.42	0	0	0	9	401,904	2,263	
50	то	75,000	57,380	312.63	0	0	0	10	573,800	3,126	
75	то	100,000	89,078	455.27	0	0	0	9	801,702	4,097	
100	то	150,000	113,509	555.08	0	0	0	11	1,248,599	6,106	
150	то	200,000	168,640	761.82	0	0	0	5	843,200	3,809	
200	то	300,000	235,180	1011.35	0	0	0	5	1,175,900	5,057	
300	то	400,000	0	0.00	0	0	0	0	0	0	
400	то	500,000	0	0.00	0	0	0	0	0	0	
500	то	750,000	0	0.00	0	0	0	0	0	0	
750	то	1.0 M	0	0.00	0	0	0	0	0	0	
1.0	то	1.5 M	0	0.00	0	0	0	0	0	0	
1.5	5 ТО	ABOVE	0	0.00	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
SUBTOTALS					0	0	\$0	89	5,656,817	\$29,932	

3" METERS:

						RESIDENTIAL		<u>COMMERCIAL</u>			
				AVG							
USAC	<u>GE/MC</u>	<u>N</u>	<u>AVG</u>	<u>BILL</u>	<u>NO. BILLS</u>	<u>USAGE</u>	INCOME	<u>NO. BILLS</u>	<u>USAGE</u>	INCOME	
0	то	25,000	0	164.37	0	0	0	12	0	1,972	
25	то	40,000	0	0.00	0	0	0	0	0	0	
40	то	50,000	0	0.00	0	0	0	0	0	0	
50	то	75,000	0	0.00	0	0	0	0	0	0	
75	то	100,000	0	0.00	0	0	0	0	0	0	
100	то	150,000	0	0.00	0	0	0	0	0	0	
150	то	200,000	0	0.00	0	0	0	0	0	0	
200	то	300,000	0	0.00	0	0	0	0	0	0	
300	то	400,000	0	0.00	0	0	0	0	0	0	
400	то	500,000	0	0.00	0	0	0	0	0	0	
500	то	750,000	0	0.00	0	0	0	0	0	0	
750	то	1.0 M	0	0.00	0	0	0	0	0	0	
1.0	то	1.5 M	0	0.00	0	0	0	0	0	0	
1.5	5 ТО	ABOVE	0	0.00	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
		SUBTOTA	LS		0			12	0	\$1,972	

4" METERS:

	<u>LI (0.</u>					<u>RESIDENTIAL</u>	COMMERCIAL			
				AVG						
USAGE/MON		<u>AVG</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	30,000	3,063	227.39	0	0	0	19	58,197	4,320
30	TO	50,000	41,900	289.75	0	0	0	1	41,900	290
50	то	75,000	56,750	362.57	0	0	0	6	340,500	2,175
75	ТО	100,000	0	0.00	0	0	0	0	0	0
100	то	150,000	0	0.00	0	0	0	0	0	0
150	ТО	200,000	0	0.00	0	0	0	0	0	0
200	то	300,000	0	0.00	0	0	0	0	0	0
300	то	400,000	0	0.00	0	0	0	0	0	0
400	то	500,000	0	0.00	0	0	0	0	0	0
500	то	750,000	0	0.00	0	0	0	0	0	0
750	то	1.0 M	0	0.00	0	0	0	0	0	0
1.0	то	1.5 M	0	0.00	0	0	0	0	0	0
1.5	то	ABOVE	0	0.00	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
SUBTOTALS					0			26	440,597	\$6,785

6" METERS:

	IERS.	<u>.</u>				RESIDENTIAL		COMMERCIAL		
				AVG						-
USAGE/MON			AVG	<u>BILL</u>	NO. BILLS	<u>USAGE</u>	INCOME	NO. BILLS	<u>USAGE</u>	INCOME
0	то	60,000	15,977	397.19	0	0	0	37	591,149	14,696
60	то	75,000	66,070	424.51	0	0	0	3	198,210	1,274
75	то	100,000	81,633	494.54	0	0	0	3	244,899	1,484
100	то	150,000	118,820	647.77	0	0	0	3	356,460	1,943
150	то	200,000	0	0.00	0	0	0	0	0	0
200	то	300,000	238,200	1095.44	0	0	0	1	238,200	1,095
300	то	400,000	378,600	1621.94	0	0	0	1	378,600	1,622
400	то	500,000 0 0.00		0	0	0	0	0	0	
500	то	750,000	0	0 0.00		0	0	0	0	0
750	то	1.0 M	0	0.00	0	0	0	0	0	0
1.0	от о	1.5 M	0	0.00	0	0	0	0	0	0
1.5	5 то	2.0 M	0	0.00	0	0	0	0	0	0
2.0	от о	2.5 M	0	0.00	0	0	0	0	0	0
2.5	5 то	3.0 M	0	0.00	0	0	0	0	0	0
3.0	от о	4.0 M	0	0.00	0	0	0	0	0	0
4.0	от о	5.0 M	0	0.00	0	0	0	0	0	0
5.0	то	ABOVE	0	0.00	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
SUBTOTALS					0	0	\$0	48	2,007,518	\$22,114
	тот				54.020	200 020 740	4 774 707	0.007	20 200 575	252,202
TOTALS		ALS			54,038	208,820,719	1,771,797	3,837	36,200,575	252,282

	TOTALS TOTAL CUSTOMERS	54,038 4.503	208,820,719	1,771,797	3,837 320	36,200,575	252,282
	AVG. CONSUMPTION PER MONTH	.,	3,864			9,435	
	ANNUAL WATER SOLD ANNUAL WATER PURCH. OR PROD.		208,820,719 264,953,200			36,200,575 45,931,500	
	ANNUAL REVENUE			\$1,771,797			\$252,282
TOTAL	ANNUAL WATER SOLD		245,021,294				
TOTAL	ANNUAL WATER PURCH. OR PROD.		310,884,700				
TOTAL	ANNUAL REVENUE		\$2,024,079				



Appendix B

5/8 X 3/4 INCH METER

	MONTHLY WATER USAGE Aver				<u>Average</u>	Average <u>Bill</u>		Residential/ <u>Farmer</u>	Non-Residential/ <u>Commercial</u>			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					<u></u>				Income	No. of		Income
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	-	2,000	Gal.	934	20.35	4	44,832	\$977	0	0	\$0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,000	-	3,000	Gal.	2,513	23.37	2	60,312	561	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-		Gal.		29.09			698	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4,000	-	5,000	Gal.	4,479	34.95	1		419	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,000	-	6,000	Gal.	5,466	40.76	1	65,592	489	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6,000	-	7,000	Gal.	0	0.00	0	0	0	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7,000	-	8,000	Gal.	0	0.00	0	0	0	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8,000	-	9,000	Gal.	0	0.00	0	0	0	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9,000	-	10,000	Gal.	0	0.00	0	0	0	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10,000	-	11,000	Gal.	0	0.00	0	0	0	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11,000	-	12,000	Gal.	0	0.00	0	0	0	0	0	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12,000	-	14,000	Gal.	0	0.00	0	0	0	0	0	0
18,000 - 20,000 Gal. 0 0.00 0 0 0 0 0 0 20,000 - 25,000 Gal. 0 0.00 0 0 0 0 0 0 25,000 - 30,000 Gal. 0 0.00 0 0 0 0 0 0 30,000 - 40,000 Gal. 0 0.00 0 0 0 0 0 0 40,000 - 50,000 Gal. 0 0.00 0 0 0 0 0 0 0 40,000 - 50,000 Gal. 0 0.00 <td>14,000</td> <td>-</td> <td>16,000</td> <td>Gal.</td> <td>0</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	14,000	-	16,000	Gal.	0	0.00	0	0	0	0	0	0
20,000 - 25,000 Gal. 0 0.00 0 0 0 0 0 0 25,000 - 30,000 Gal. 0 0.00 0 0 0 0 0 0 30,000 - 40,000 Gal. 0 0.00 0 0 0 0 0 0 40,000 - 50,000 Gal. 0 0.00 0 0 0 0 0 0 50,000 - 75,000 Gal. 0 0.00 0 0 0 0 0 50,000 - 75,000 Gal. 0 0.00 0 0 0 0 75,000 - 100,000 Gal. 0 0.00 0 0 0 0	16,000	-	18,000	Gal.	0	0.00	0	0	0	0	0	0
25,000 - 30,000 Gal. 0 0.00 0 0 0 0 0 0 30,000 - 40,000 Gal. 0 0.00 0 0 0 0 0 0 40,000 - 50,000 Gal. 0 0.00 0 0 0 0 0 0 50,000 - 75,000 Gal. 0 0.00 0 0 0 0 0 75,000 - 100,000 Gal. 0 0.00 0 0 0 0	18,000	-	20,000	Gal.	0	0.00	0	0	0	0	0	0
30,000 - 40,000 Gal. 0 0.00 0 0 0 0 0 40,000 - 50,000 Gal. 0 0.00 0	20,000	-	25,000	Gal.	0	0.00	0	0	0	0	0	0
40,000-50,000Gal.00.000000050,000-75,000Gal.00.000000075,000-100,000Gal.00.0000000	25,000	-	30,000	Gal.	0	0.00	0	0	0	0	0	0
50,000-75,000Gal.00.000000075,000-100,000Gal.00.0000000	30,000	-	40,000	Gal.	0	0.00	0	0	0	0	0	0
75,000 - 100,000 Gal. 0 0.00 0 0 0 0 0 0	40,000	-	50,000	Gal.	0	0.00	0	0	0	0	0	0
	50,000	-	75,000	Gal.	0	0.00	0	0	0	0	0	0
100,000 & ABOVE Gal. 0 0.00 0 0 0 0 0 0	75,000	-	100,000	Gal.	0	0.00	0	0	0	0	0	0
	100,000	&	ABOVE	Gal.	0	0.00	0	0	0	0	0	0
ANNUAL TOTALS 10 308,100 \$3,144 0 0			ANNUAL T	-		* 40.04	10	308,100	\$3,144	0	0	\$0

AVG. RATE \$10.21 AVG. USAGE

2,568



Exhibit A

