PSC REF#:162522

Public Service Commission of Wisconsin
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Traditional Cost Study With Adjusted Class Peaking Factors

1. Oak Creek is submitting two cost-of-service studies to the Commission. This 1st cost of service study uses the traditional allocation methodology, but adjusts demand factors to more accurately reflect actual system usage and peak demands.

2. Cost associated with transmission-size water mains will be allocated using a 2-part "base-cost / extra-capacity max day" allocation. This is the method that has been used in prior rate cases.

3. Max Day to average day ratios (MD:AD or MD ratio) for the total system, for Franklin, and for Franklin on the day of the system MD have been calculated for 2008, 2009, 2010, and 2011. The study uses the 4-year average for these factors.

4. The customer class peaking factors used in this cost study were developed by Eric Rothstein in his tech memo filed with the PSCW on 09/06/2011 (PSC Ref#152733) and are shown on Table 1.

5. The study includes a component representing "unaccounted-for-water" or "non-revenue water." The percentage of "Unacctd. Water" (%Unacctd. Water) will be calculated by taking the sum total of the volume pumped into the distribution system as shown in each of the *PSC Annual Reports* for the last 4 years, subtracting the volume of water sold (Revenue Water) in each of those 4 years, and dividing by the 4-year total of water pumped into the distribution system. The estimated system pumpage for the Test Year will be the gallons of "Revenue Water" estimated for the Test Year divided by (1 - %Unacctd. Water).

6. Public Fire Protection was allocated between retail and wholesale customers using the same method as the PSCW Staff developed for the most recent Milwaukee Water Works rate case.

PRESENT & ESTIMATED RATES

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

General Water Service - Metered

Meter Size	Quarterly Customer Charge Present	Quarterly Customer Charge Estimated
5/8"	$21.63	$28.75
3/4"	21.63	28.75
1"	33.99	44.00
1½	64.89	83.00
2"	95.79	122.00
3"	169.95	213.00
4"	278.10	342.00
6"	556.20	666.00
8"	896.10	1,065.00
10"	1,328.70	1,572.00
12"	1,761.30	2,079.00

Usage In Mgal	Present Charge $/Mgal	Estimated Charge $/Mgal
First 6,000	$2.71	$3.14
Next 18,000	$1.99	$2.42
Over 24,000	$1.50	$1.93

General Water Service - Unmetered

	Quarterly Customer Charge Present	Quarterly Customer Charge Estimated
Unmetered Water Customers	$68.34	$75.85

est. @ 18.0 Mgal per period for "Present" rates

est. @ 15.0 Mgal per period for "Estimated" rates

Private Fire Protection

Size of Connection	Quarterly Customer Charge Present	Quarterly Customer Charge Estimated
2	$12.00	$12.00
3	21.00	21.00
4	39.00	39.00
6	72.00	72.00
8	102.00	102.00
10	150.00	150.00
12	192.00	192.00
14	246.00	246.00
16	300.00	300.00

PRESENT & ESTIMATED RATES

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Resale Water Service

		Present	Estimated	Charge Based on Actual No. of Meters	
Quarterly Charge					
Franklin	4-10",	$5,315	$5,316	$5,316	4-10",
Caledonia	1- 8", 2- 6"	$3,121	$2,007	$2,007	1- 8", 2- 6"
Volume Charge ($/Mgal)					
Franklin		$2.16	$2.91		
Caledonia		$2.16	$2.91		
Public Fire Prot. ($/Year)					
Franklin		$85,099	$267,790		
Caledonia		$33,866	$76,393		

PRESENT & ESTIMATED RATES

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Public Fire Protection

	Present	Estimated
Annual Charge To Municipality	$0	$0

Meter Size	Quarterly Customer Charge Present	Quarterly Customer Charge Estimated
5/8"	$17.61	$14.40
3/4"	17.61	14.40
1"	43.57	36.30
1½"	87.45	72.00
2"	139.67	117.00
3"	262.65	219.00
4"	435.69	363.00
6"	874.47	726.00
8"	1,396.68	1,161.00
10"	2,095.02	1,740.00
12"	2,793.36	2,322.00

WATER BILL COMPARISON

INCLUDING FIRE PROTECTION DIRECT CHARGE

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Qtrly Usage	0.75 " METER				1 " METER				2 " METER			
Mgal	Present	Estimated	$ Chg	% Chg	Present	Estimated	$ Chg	% Chg	Present	Estimated	$ Chg	% Chg
0	39.24	43.15	3.91	10.0%								
1	41.95	46.29	4.34	10.3%								
2	44.66	49.43	4.77	10.7%								
3	47.37	52.57	5.20	11.0%								
4	50.08	55.71	5.63	11.2%								
5	52.79	58.85	6.06	11.5%	Avg. Resid. =		**14.8**	Units/Quarter				
6	55.50	61.99	6.49	11.7%	Typical Resid. =		**15.0**	Units/Quarter				
7	58.21	65.13	6.92	11.9%	Typical % of Avg. =		**101.1%**					
8	60.92	68.27	7.35	12.1%								
9	63.63	71.41	7.78	12.2%								
10	66.34	74.55	8.21	12.4%	104.66	111.70	7.04	6.7%				
11	69.05	77.69	8.64	12.5%	107.37	114.84	7.47	7.0%				
12	71.76	80.83	9.07	12.6%	110.08	117.98	7.90	7.2%				
13	74.47	83.97	9.50	12.8%	112.79	121.12	8.33	7.4%				
14	77.18	87.11	9.93	12.9%	115.50	124.26	8.76	7.6%				
15	**79.89**	**90.25**	**10.36**	**13.0%**	118.21	127.40	9.19	7.8%				
16	82.60	93.39	10.79	13.1%	120.92	130.54	9.62	8.0%				
17	85.31	96.53	11.22	13.2%	123.63	133.68	10.05	8.1%				
18	88.02	99.67	11.65	13.2%	126.34	136.82	10.48	8.3%				
19	90.73	102.81	12.08	13.3%	129.05	139.96	10.91	8.5%				
20	93.44	105.95	12.51	13.4%	131.76	143.10	11.34	8.6%				
24	104.28	118.51	14.23	13.6%	142.60	155.66	13.06	9.2%				
25	106.99	121.65	14.66	13.7%	145.31	158.80	13.49	9.3%	303.21	317.50	14.29	4.7%
30	120.54	137.35	16.81	13.9%	158.86	174.50	15.64	9.8%	316.76	333.20	16.44	5.2%
35	134.09	153.05	18.96	14.1%	172.41	190.20	17.79	10.3%	330.31	348.90	18.59	5.6%
40	147.64	168.75	21.11	14.3%	185.96	205.90	19.94	10.7%	343.86	364.60	20.74	6.0%
45	161.19	184.45	23.26	14.4%	199.51	221.60	22.09	11.1%	357.41	380.30	22.89	6.4%
50	174.74	200.15	25.41	14.5%	213.06	237.30	24.24	11.4%	370.96	396.00	25.04	6.8%
60	201.84	231.55	29.71	14.7%	240.16	268.70	28.54	11.9%	398.06	427.40	29.34	7.4%
70	228.94	262.95	34.01	14.9%	267.26	300.10	32.84	12.3%	425.16	458.80	33.64	7.9%
80	256.04	294.35	38.31	15.0%	294.36	331.50	37.14	12.6%	452.26	490.20	37.94	8.4%
90	283.14	325.75	42.61	15.0%	321.46	362.90	41.44	12.9%	479.36	521.60	42.24	8.8%
100	310.24	357.15	46.91	15.1%	348.56	394.30	45.74	13.1%	506.46	553.00	46.54	9.2%
150	445.74	514.15	68.41	15.3%	484.06	551.30	67.24	13.9%	641.96	710.00	68.04	10.6%
200	581.24	671.15	89.91	15.5%	619.56	708.30	88.74	14.3%	777.46	867.00	89.54	11.5%
300	852.24	985.15	132.91	15.6%	890.56	1,022.30	131.74	14.8%	1,048.46	1,181.00	132.54	12.6%
400	1,123.24	1,299.15	175.91	15.7%	1,161.56	1,336.30	174.74	15.0%	1,319.46	1,495.00	175.54	13.3%
500	1,394.24	1,613.15	218.91	15.7%	1,432.56	1,650.30	217.74	15.2%	1,590.46	1,809.00	218.54	13.7%
750	2,071.74	2,398.15	326.41	15.8%	2,110.06	2,435.30	325.24	15.4%	2,267.96	2,594.00	326.04	14.4%
1000	2,749.24	3,183.15	433.91	15.8%	2,787.56	3,220.30	432.74	15.5%	2,945.46	3,379.00	433.54	14.7%
2000	5,459.24	6,323.15	863.91	15.8%	5,497.56	6,360.30	862.74	15.7%	5,655.46	6,519.00	863.54	15.3%
3000	8,169.24	9,463.15	1,293.91	15.8%	8,207.56	9,500.30	1,292.74	15.8%	8,365.46	9,659.00	1,293.54	15.5%

WATER BILL COMPARISON

INCLUDING FIRE PROTECTION DIRECT CHARGE

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Meter Size (in.)	Customer Type	Mgal Used	Quarterly Bill @ Present	Proposed	$ Change	% Change
			$	$	$	%
0.750	Small Residential	8	60.92	68.27	7.35	12.1%
0.750	Typical Residential	15	79.89	90.25	10.36	13.0%
0.750	Large Residential	30	120.54	137.35	16.81	13.9%
0.750	Small Commercial	56	191.00	218.99	27.99	14.7%
1.000	Typical Commercial	111	378.37	428.84	50.47	13.3%
1.500	Large Commercial	333	1,054.77	1,200.62	145.85	13.8%
2.000	Very Large Commercial	2,500	7,010.46	8,089.00	1,078.54	15.4%
2.000	Industrial	4,000	11,075.46	12,799.00	1,723.54	15.6%
8.000	Very Large Industrial	62,500	112,122.78	138,931.00	26,808.22	23.9%
2.000	Public Authority	1,000	2,945.46	3,379.00	433.54	14.7%
2.000	P/A - School	10,000	24,455.46	28,759.00	4,303.54	17.6%

WATER BILL COMPARISON

WHOLESALE CUSTOMERS

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Meter Size	Customer	Usage Mgal	Annual General Water Service: Present Rates	Estimated Rates	Incr./(Decr.)	% Incr.	Annual Public Fire Protection: Present Rates	Estimated Rates	Incr./(Decr.)	% Incr.	Combined: GWS & Fire Protection: Present Rates	Estimated Rates	Incr./(Decr.)	% Incr.	Overall Increase Reqd. in Utility's Revenues	Total "Sales of Water" per latest PSC Rpt	Whsle Average $/Mgal
			$	$	$	%	$	$	$	%	$	$	$	%	%	$	
4-10"	Franklin	1,011,233	$2,205,522	$2,963,952	$758,430	34.4%	$85,099	$267,790	$182,692	214.7%	$2,290,621	$3,231,742	$941,121	41.1%	21.7%	$4,342,116	$3.196
1- 8" 2- 6"	Caledonia	181,527	$404,582	$536,272	$131,690	32.5%	$33,866	$76,393	$42,526	125.6%	$438,448	$612,664	$174,216	39.7%	19.5%	$894,633	$3.375
	Total	1,192,760	$2,610,104	$3,500,224	$890,119	34.1%	$118,965	$344,183	$225,218	189.3%	$2,729,069	$3,844,407	$1,115,337	40.9%	21.3%	$5,236,749	$3.223
														Incr. in GWS	17.0%		

% of Total PFP System Costs	**18.1%**	**52.3%**
% of Total System Usage	**47.3%**	**47.3%**

Assumptions: Fire flow set at 5,000 gpm for 5.0 hours

Wholesale Rate =	$	2.91	per 1,000 gallons
Wholesale Increase =	$	0.75	per 1,000 gallons
Average Retail Increase =	$	0.43	per 1,000 gallons
Composite Rate of Return =	4.8500%		
Retail Rate of Return =	4.2016%		
Wholesale Rate of Return =	6.0000%		

Other:

1. For O&M main maintenance, 0% was split btwn T&D using inch-feet and 100% was split btwn T&D using feet only

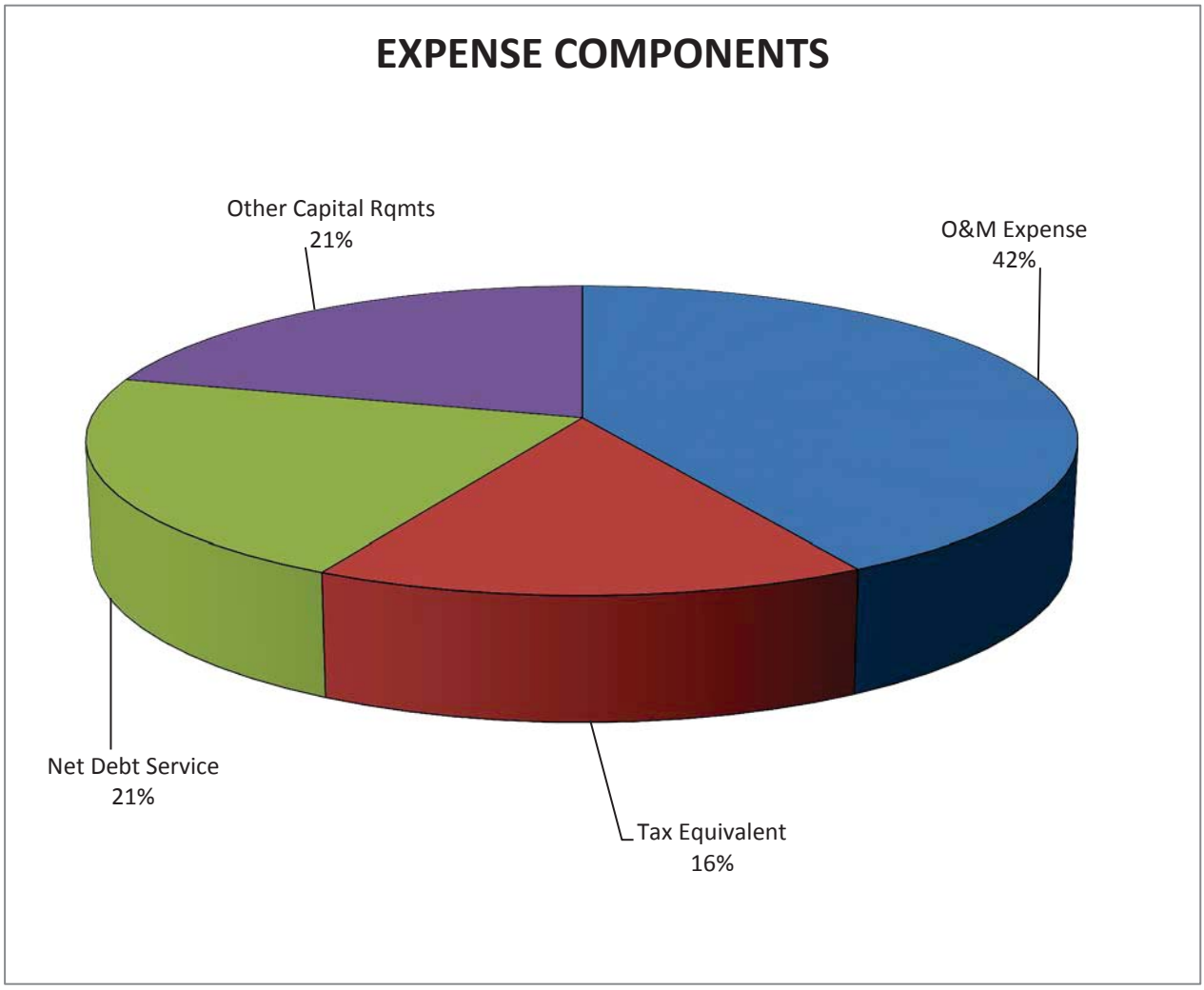
COMPARISON WITH OTHER WATER RATES

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Municipality:	Class	Date of Last Rate Order	QUARTERLY BILLS 5/8" or 3/4" Meter Bill @ Usage of Minimum	3.75 Mgal	7.5 Mgal	18.75 Mgal	45 Mgal	75 Mgal
Menasha	AB	06/16/2010	27.00	47.59	68.18	**129.94**	274.05	433.35
Fond du Lac	AB	01/01/2010	41.00	57.76	74.18	**122.89**	236.55	366.45
Appleton	AB	01/01/2009	19.35	39.70	60.05	**121.10**	263.55	426.35
Port Washington	AB	09/02/2008	20.25	36.50	52.75	**101.50**	215.25	337.25
Oshkosh	AB	07/01/2007	16.00	32.85	49.70	**100.25**	214.00	343.20
Neenah	AB	01/01/2006	15.00	31.80	48.60	**99.00**	216.60	351.00
Two Rivers	AB	09/01/2010	30.00	43.01	56.03	**95.06**	181.53	279.03
Oak Creek	**AB**	**Estimated**	28.75	40.53	52.30	**87.63**	170.05	264.25
Ashwaubenon	AB	06/01/2006	24.00	36.68	49.35	**87.38**	176.10	277.50
Franklin	AB	12/17/2009	19.20	32.33	45.45	**86.14**	190.70	310.70
New Berlin	AB	09/01/2009	20.60	33.46	46.33	**84.91**	173.95	273.85
Sturgeon Bay	AB	06/01/2009	22.50	33.75	45.00	**78.75**	152.25	231.75
Marinette	AB	06/10/2010	19.50	31.69	43.88	**77.15**	154.59	242.01
Beaver Dam	AB	03/01/2005	13.20	24.85	36.50	**71.45**	153.00	234.60
Oak Creek	**AB**	**07/04/2008**	21.00	30.86	40.73	**70.31**	139.35	218.25
Waukesha	AB	06/05/2009	22.50	30.19	37.88	**66.19**	147.00	249.00
Oconomowoc	AB	07/01/2010	18.54	28.07	37.59	**66.17**	132.09	206.79
Ripon	C	07/01/2010	23.49	31.79	40.09	**64.99**	123.09	189.49
Cedarburg	C	01/03/2009	21.00	29.66	38.33	**64.31**	124.95	194.25
Green Bay	AB	11/01/2010	15.00	24.75	34.50	**63.75**	132.00	210.00
Racine	AB	03/25/2009	16.50	25.75	35.00	**62.75**	127.50	201.50
Madison	AB	12/29/2009	12.75	22.40	32.05	**61.00**	128.55	205.75
Milton	C	09/03/2009	26.16	32.99	39.81	**60.29**	108.06	162.66
Wausau	AB	07/01/2010	15.45	23.90	32.35	**57.70**	116.85	178.05
Germantown	AB	09/15/2010	14.40	22.50	30.60	**54.90**	111.60	176.40
Brookfield	AB	03/03/2003	13.35	21.56	29.78	**54.41**	111.90	177.60
Eau Claire	AB	05/01/2009	17.10	24.55	32.00	**54.35**	106.50	160.85
Kenosha	AB	12/31/2009	14.46	22.41	30.36	**54.21**	109.23	170.03
Beloit	AB	04/30/2008	20.40	26.50	32.60	**50.90**	93.60	142.40
Manitowoc	AB	01/01/2010	10.95	17.50	24.05	**43.70**	89.55	138.65
Sheboygan	AB	04/01/2010	10.50	16.25	22.00	**39.25**	79.50	125.50
La Crosse	AB	01/01/2010	16.50	20.25	24.00	**35.25**	60.60	87.00
Average w/o Oak Creek			$19.22	$30.10	$40.97	**$73.65**	$150.16	$236.10
Oak Creek	AB	07/04/2008	21.63	31.79	41.96	72.44	143.58	224.88
Oak Creek	AB	Estimated	28.75	40.53	52.30	87.63	170.05	264.25
Mean of All Class AB Utilities -		11/30/2010	$18.40	$29.03	$39.68	$71.92	$146.94	$230.43
Mean of All Classes -		11/30/2010	$23.69	$34.65	$45.80	$79.43	$153.56	$233.10
Present Rates +/- Selected Communities			12.53%	5.63%	2.42%	-1.65%	-4.38%	-4.75%
Present Rates +/- Mean Class "AB"			17.56%	9.51%	5.73%	0.73%	-2.29%	-2.41%
Present Rates +/- Mean All Classes			-8.68%	-8.24%	-8.40%	-8.80%	-6.50%	-3.52%
Estimated Rates +/- Selected Communities			49.57%	34.64%	27.67%	18.97%	13.25%	11.92%
Estimated Rates +/- Mean Class "AB"			56.26%	39.59%	31.80%	21.84%	15.73%	14.67%
Estimated Rates +/- Mean All Classes			21.38%	16.97%	14.18%	10.31%	10.74%	13.37%

Figure 1

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED



EXPENSE COMPONENTS	$	% of Total Expense
O&M Expense	4,211,298	41.9%
Tax Equivalent	1,586,203	15.8%
Net Debt Service	2,171,031	21.6%
Other Capital Rqmts	2,091,066	20.8%
Total Revenue Needed	$10,059,598	100.00%
REVENUE NEEDED FROM RATES	$10,059,598	

SUMMARY - PRESENT & ESTIMATED REVENUES

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	Revenues Under			
	Present Rates	Estimated Rates	Dollar Change	Percent Change
	$	$	$	%
Residential	1,932,689	2,354,665	421,975	21.8%
Commercial	1,313,405	1,546,904	233,499	17.8%
Industrial	890,161	1,080,911	190,750	21.4%
Public Auth.	77,936	92,341	14,405	18.5%
Whsle -Franklin	2,205,522	2,963,952	758,430	34.4%
Whsle -Caledonia	404,582	536,272	131,690	32.5%
Public Fire Prot. - Direct Charge	885,509	728,887	(156,621)	-17.7%
Public Fire Prot. Whsle- Franklin	85,099	267,790	182,692	214.7%
Public Fire Prot. Whsle- Caledonia	33,866	76,393	42,526	125.6%
Private Fire Prot.	147,264	147,264	0	0.0%
Misc. Revenues	261,200	261,200	0	0.0%
Total Revenues	8,237,234	10,056,578	1,819,344	22.1%
Revenues from Water Customers				
R, C, I, P/A, & Direct Charge PFP	5,099,700	5,803,707	704,007	13.8%

SUMMARY - PRESENT & ESTIMATED REVENUES

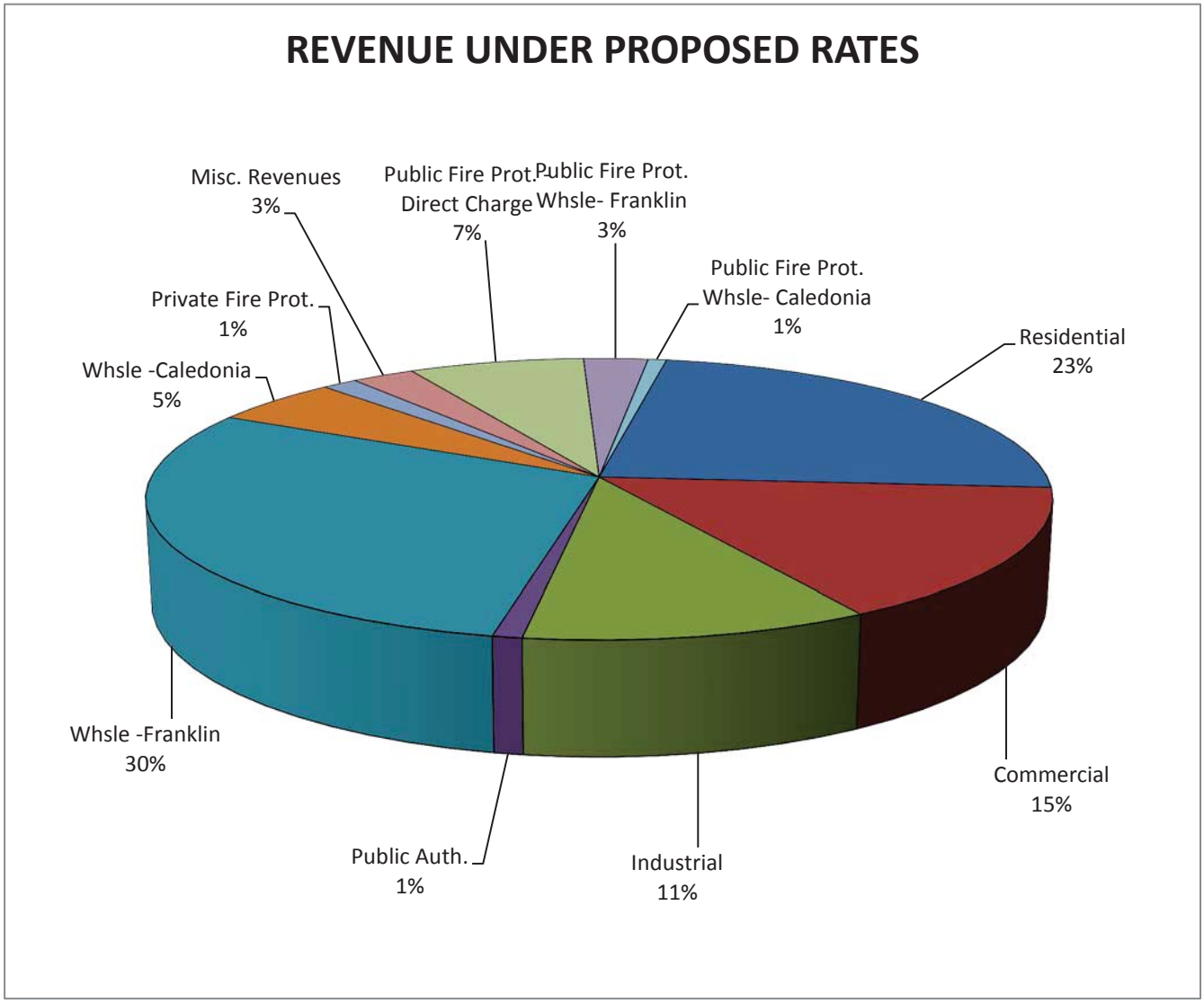
RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	Revenue Under Present Rates	Adj. Cost of Service	Revenue Under Estimated Rates	Dollar Increase Over Present Rates	Cost of Service Increase Indicated	Achieved Increase Over Present Rates	% Over/ (Under) Cost of Service	Direct Charge PFP Revenues	Total Combined Revenues	Total Combined Increase
	$	$	$	$	%	%	%	$	$	%
Residential	1,932,689	2,294,664	2,354,665	421,975	18.7%	21.8%	2.6%	451,225	2,805,890	12.9%
Commercial	1,313,405	1,570,492	1,546,904	233,499	19.6%	17.8%	-1.5%	228,312	1,775,216	11.8%
Industrial	890,161	1,124,048	1,080,911	190,750	26.3%	21.4%	-3.8%	23,088	1,103,999	20.3%
Public Auth.	77,936	86,131	92,341	14,405	10.5%	18.5%	7.2%	26,262	118,603	8.3%
Whsle -Franklin	2,205,522	2,965,186	2,963,952	758,430	34.4%	34.4%	0.0%	267,790	3,231,742	41.1%
Whsle -Caledonia	404,582	534,711	536,272	131,690	32.2%	32.5%	0.3%	76,393	612,664	39.7%
Public Fire Prot. - Ad Valorem	0	0	0	0		0.0%			-	
Public Fire Prot. - Direct Charge	885,509	731,719	728,887	(156,621)	-17.4%	-17.7%	-0.4%			
Public Fire Prot. Direct - Residential	551,772	451,225	451,225	(100,547)	-18.2%	-18.2%	0.0%			
Public Fire Prot. Direct - Commercial	274,438	228,312	228,312	(46,126)	-16.8%	-16.8%	0.0%			
Public Fire Prot. Direct - Industrial	27,741	23,088	23,088	(4,653)	-16.8%	-16.8%	0.0%			
Public Fire Prot. Direct - Public Auth.	31,558	26,262	26,262	(5,296)	-16.8%	-16.8%	0.0%			
Public Fire Prot. Whsle- Franklin	85,099	267,790	267,790	182,692		214.7%	0.0%			
Public Fire Prot. Whsle- Caledonia	33,866	76,393	76,393	42,526		125.6%	0.0%			
Private Fire Prot.	147,264	147,264	147,264	0	0.0%	0.0%	0.0%		147,264	
Misc. Revenues	261,200	261,200	261,200	0	0.0%	0.0%	0.0%		261,200	
Total Revenues	8,237,234	10,059,598	10,056,578	1,819,344	22.1%	22.1%	0.0%	1,073,070	10,056,578	22.1%
Less: Private Fire Prot.	(147,264)	(147,264)	(147,264)	-					(147,264)	0.0%
Less: Misc. Revenues	(261,200)	(261,200)	(261,200)						(261,200)	0.0%
Less: PFP - Ad Valorem	-	-	-						-	0.0%
Net Revenues from Utility Customers	7,828,770	9,651,134	9,648,114	1,819,344	23.3%	23.2%	0.0%	1,073,070	9,648,114	**23.2%**
Net Cash Flow for Construction	**2,088,046**		**Whsle Rate:**	**$2.91**						

COSS	Achieved	
20.43%	20.42%	Incr. in Retail GWS
-17.69%	-17.69%	Incr. in Retail PFP
13.87%	13.80%	Incr. in Retail Total
	$704,007	Incr. In Retail Revenue
	34.10%	Incr. in Whsle GWS
	189.31%	Incr. in Whsle PFP
	40.87%	Incr. in Whsle Total
	$1,115,337	Incr. in Whsle

Resale Ave. Cost w/o Distr. System	$3.043
Target Composite Wholesale Volume Charge	$2.910
Composite Wholesale GWS plus PFP	$3.223
Adjustment to Whsle Rate	**$0.000**
Proposed Resale Rate - Franklin	**$2.91**
Proposed Resale Rate - Caledonia	**$2.91**
Proposed Resale Rate - x	**$2.91**

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED



REVENUE UNDER PROPOSED RATES	$	% of Total Revenues
Residential	2,354,665	23.4%
Commercial	1,546,904	15.4%
Industrial	1,080,911	10.7%
Public Auth.	92,341	0.9%
Whsle -Franklin	2,963,952	29.5%
Whsle -Caledonia	536,272	5.3%
Private Fire Prot.	147,264	1.5%
Misc. Revenues	261,200	2.6%
Public Fire Prot. - Direct Charge	728,887	7.2%
Public Fire Prot. Whsle- Franklin	267,790	2.7%
Public Fire Prot. Whsle- Caledonia	76,393	0.8%
USER CHARGE REVENUE	$10,056,578	100.0%

REASONS FOR THE CHANGE IN WATER RATES

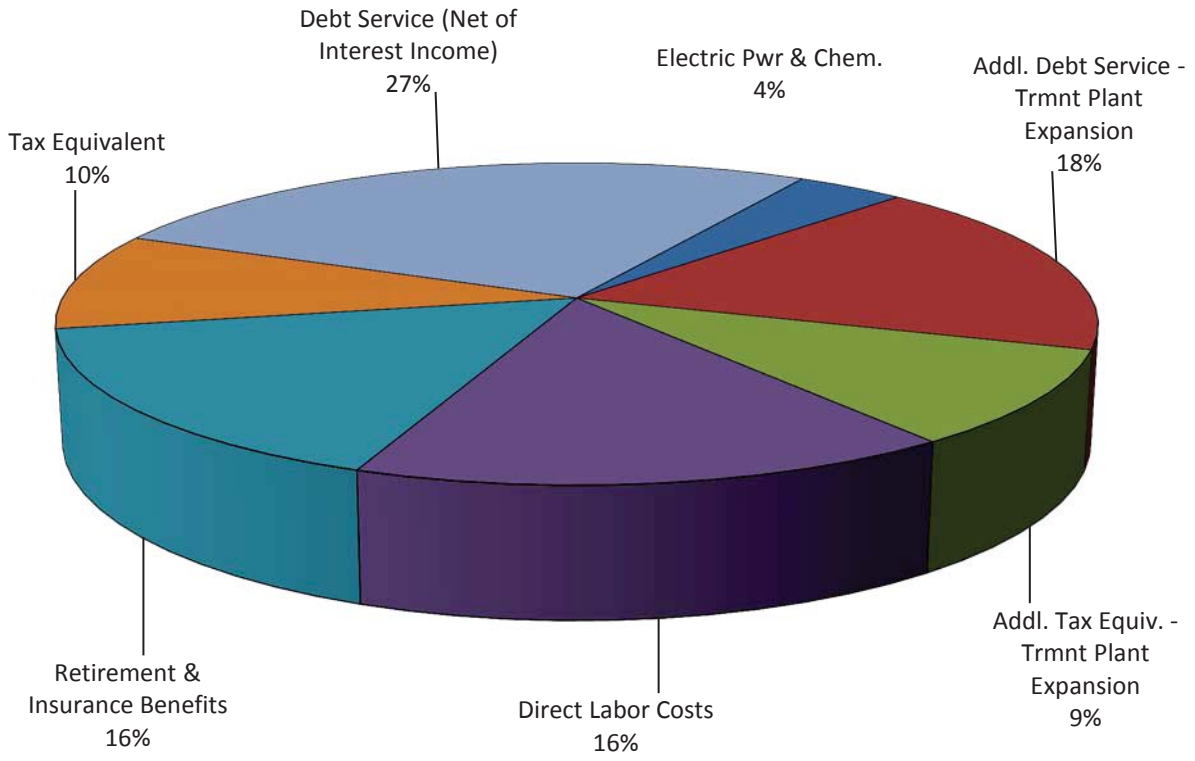
RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	Basis For Present Rates	Present Revenues & Expenses	Increase/ (Decrease)	% Increase/ (Decrease)	
	$	$	$	%	
REVENUES:					
Residential	2,059,049	1,932,689	(126,360)	-6.14%	
Commercial	1,355,154	1,313,405	(41,749)	-3.08%	
Industrial	973,119	890,161	(82,957)	-8.52%	
Public Auth.	77,863	77,936	73	0.09%	
Unmetered	14,000	10,900	(3,100)	-22.14%	
Sales for Resale (Wholesale Customers)	2,513,352	2,610,104	96,752	3.85%	
TOTAL WATER SERVICE	6,992,537	6,835,196	(157,341)	-2.25%	
Private Fire Protection	128,712	147,264	18,552	14.41%	
Public Fire Protection (Direct Charge)	813,179	885,509	72,330	8.89%	
Public Fire Prot. (Wholesale Cust.)	115,500	118,965	3,465	3.00%	
Late Payment Charge	40,100	50,200	10,100	25.19%	
Misc. Revenues	78,700	166,000	87,300	110.93%	
Other Water Revenues	26,800	34,100	7,300	27.24%	
TOTAL OPERATING REVENUES	8,195,528	8,237,234	41,706	0.51%	
OPERATING EXPENSES:					Annualized % Chg.
Purchased Water	650	0	(650)	-100.00%	-100.00%
Direct Labor Costs	1,201,900	1,564,800	362,900	30.19%	9.22%
Retirement & Insurance Benefits	644,850	1,004,571	359,721	55.78%	15.97%
Electric Power	363,200	374,650	11,450	3.15%	1.04%
Chemicals	154,700	231,250	76,550	49.48%	14.38%
All Other Costs	1,191,360	1,036,027	(155,333)	-13.04%	-4.56%
Total O&M Expense (Incl. FICA)	3,556,660	4,211,298	654,638	18.41%	5.81%
Tax Equivalent	1,152,901	1,586,203	433,302	37.58%	11.25%
CASH OPERATING EXPENSES	4,709,561	5,797,501	1,087,940	23.10%	7.19%
CAPITAL COSTS:					
Principal & Interest on Debt	1,485,019	2,186,331	701,312	47.23%	13.80%
Less: Interest Income / TIF / Spec. Assess.	(311,500)	(15,300)	296,200	-95.09%	-63.48%
Cash Contingency	2,312,448	2,091,066	(221,381)	-9.57%	-3.31%
TOTAL CAPITAL REQUIREMENTS	3,485,966	4,262,097	776,131	22.26%	6.95%
TOTAL OPERATING & CAPITAL EXPENSES	$8,195,528	$10,059,598	$1,864,070	22.74%	7.09%
TOTAL CHANGE IN REVENUES REQUIRED	$0	$1,822,364	$1,822,364	22.12%	6.91%

Figure 3

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

REASONS FOR THE CHANGE



REASONS FOR THE CHANGE	$	%	Rate Incr. Required	
Electric Pwr & Chem.	88,000	3.9%	1.1%	
Addl. Debt Service - Trmnt Plant Expansion	399,498	17.8%	4.8%	7.5%
Addl. Tax Equiv. - Trmnt Plant Expansion	215,879	9.6%	2.6%	
Direct Labor Costs	362,900	16.2%	4.4%	
Retirement & Insurance Benefits	359,721	16.0%	4.4%	
Tax Equivalent	217,423	9.7%	2.6%	
Debt Service (Net of Interest Income)	598,014	26.7%	7.3%	
Sub-total	$2,241,435	100.0%		
Less: Increase in Revenue	(41,706)			
Purchased Water	(650)			
O&M Exp. (w/o Elec, Chem, Labor & Benefits)	(155,333)		-1.9%	
Other Capital Rqmts	(221,381)		-2.7%	
NET CHANGE REQUIRED	$1,822,364		22.6%	

RATE BASE & RATE OF RETURN - RETAIL & WHOLESALE

		2007	2008	2009	2010	Basis For New Rates 2011
Utility Plant-In-Service:						
Balance - Beginning of Period		48,397,940	50,516,367	50,484,873	52,557,517	67,408,243
Balance - End of Period		50,516,367	50,484,873	52,557,517	67,408,243	70,962,833
Test Year Adjustment			0			1,686,655
Average Balance		49,457,154	50,500,620	51,521,195	59,982,880	70,872,192
Less Accumulated Depreciation:						
Balance - Beginning of Period		13,679,317	14,785,184	16,018,839	17,231,714	18,312,792
Balance - End of Period		14,785,184	16,018,839	17,231,714	18,312,792	20,062,283
Test Year Adjustment						13,655
Average Balance		14,232,251	15,402,012	16,625,277	17,772,253	19,201,193
Less Regulatory Liability:						
Balance - Beginning of Period		3,035,429	2,856,874	2,678,320	2,499,765	2,321,210
Balance - End of Period		2,856,874	2,678,320	2,499,765	2,321,210	2,142,656
Average Balance		2,946,152	2,767,597	2,589,042	2,410,488	2,231,933
Plus Materials & Supplies:						
Balance - Beginning of Period		61,089	62,047	58,462	53,310	64,561
Balance - End of Period		62,047	58,462	53,310	64,561	59,600
Average Balance		61,568	60,255	55,886	58,936	62,081
AVERAGE NET INVESTMENT RATE BASE		$32,340,319	$32,391,266	$32,362,762	$39,859,074	$49,501,147
Net Operating Income		$1,835,719	$1,690,059	$2,153,373	$998,049	$578,443
Rate of Return in Percent (F-20)		5.676%	5.218%	6.654%	2.504%	1.169%
Return on Net Rate Base at	4.8500%					$2,400,807
$ Amount of Increase Required						$1,822,364
Percent of Increase Required:						
on Total Revenues of	$8,237,234					22.12%
on "User Charge" Revenues of	$7,986,934					22.82%

CASH FLOW COVERAGE COMPUTATIONS

COVERAGE CALCULATION:	Present Rates	2011 Revenue @ 4.85% Return
Sources of Funds:		
Net Income	$578,443	$2,400,807
Plus: Depreciation & Amortization	1,861,290	1,861,290
Plus: Interest Income	15,300	15,300
Total Sources	2,455,033	4,277,397
Uses of Funds:		
Principal	1,402,566	1,402,566
Interest	783,765	783,765
Less: TIF Revenues / Spec. Assess.	0	0
Plus: Payment to Municipality	0	0
Total Uses	2,186,331	2,186,331
Net Cash Flow for Capital Construction	$268,702	$2,091,066
Net Cash Flow for Capital Constr. Excl. Interest Inc.	$253,402	$2,075,766
Debt Service Coverage Ratio	1.123	1.956
Debt Service Coverage Ratio Excl. Interest Inc. & Other Revenue	1.116	1.949
Net Cash Flow as a % of:		
Gross Revenues	3.26%	20.79%
Total Cash Outlay	3.37%	26.19%
Total Cash Outlay Excl. Interest Income	3.17%	26.00%
Total Gross Revenues	8,237,234	10,059,598
Cash Expenditures:		
Local O&M Expenses	4,082,748	4,082,748
Property Tax Equiv., PSC Remainder, FICA	1,714,753	1,714,753
Debt Service	2,186,331	2,186,331
Total Cash Expenditures	7,983,832	7,983,832
Total Cash Expenditures (Excl. Purchased Water)	7,983,832	7,983,832
Cash Cushion: 8.00% of local cash expenditures	638,700	638,700
Cash Cushion: 1.25 times debt service coverage	546,600	546,600

Rate of Return of	**4.85000%**	is the desired return.
Rate of Return of	**1.92%**	is need to meet **targeted cash requirements**.
Additional Return of	**2.93%**	is included to meet desired return level.
Rate of Return of	**4.85%**	is requested.

	Target	Achieved		Retail ROR	Whsle ROR
Cash Cushion:	$2,091,066	$2,088,046	for capital construction	**4.20163%**	**6.0000%**
Cash Cushion:	26.19%	26.15%	of local cash expenditures	**Retail Target Incr.**	**Whsle Incr.**
Cash Cushion:	1.956	1.955	times debt service coverage	**13.87%**	**40.87%**
Rate of Return:	4.85000%	4.8439%		**1.80% ROR Diff.**	
$ Increase Over Present:	$1,822,364	$1,819,344			
% Increase Over Present:	22.12%	22.09%			
% Incr. over User Charge Revenues:	22.82%	22.78%			

$2,091,066	**Target Cash**
$1,930,483	**Target Cash w/ 5-yr avg P&I**
$2,164,920	**Target Cash w/ 10-yr avg P&I**
$1,678,940	**8-yr Inflation Adj. Construction**

CASH FLOW ADEQUACY	Present	Target Proposed	Achieved Proposed	For Rev. Bonds w/o Tax Equiv. Present	Target Proposed	Achieved Proposed
Operating Revenues	8,237,234	10,059,598	10,056,578	8,237,234	10,059,598	10,056,578
Less: Oper. Exp. (Excl. Depr.)	(5,797,501)	(5,797,501)	(5,797,501)			
Less: Oper. Exp. (Excl. Depr. & Tax Equiv.)				(4,211,298)	(4,211,298)	(4,211,298)
Plus: Interest Income	15,300	15,300	15,300	15,300	15,300	15,300
Total Cash Available for Debt Service	2,455,033	4,277,397	4,274,377	4,041,236	5,863,600	5,860,580
Principal	1,402,566	1,402,566	1,402,566	1,402,566	1,402,566	1,402,566
Interest	783,765	783,765	783,765	783,765	783,765	783,765
Less: TIF Revenues / Spec. Assess.	0	0	0	0	0	0
Plus: Payment to Municipality	0	0	0	0	0	0
Total Debt Service	2,186,331	2,186,331	2,186,331	2,186,331	2,186,331	2,186,331
Cash Cushion	268,702	2,091,066	2,088,046	1,854,905	3,677,269	3,674,249
Debt Service Coverage	1.123	1.956	1.955	1.848	2.682	2.681
Cash Cushion as % of Cash Expenditures	3.37%	26.19%	26.15%	23.23%	46.06%	46.02%

TOTAL REVENUE REQUIREMENT @ RETAIL RATE OF RETURN

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Description		Alloc. Code	Total	Base Cost		Extra Capacity					Customer Cost			Fire Hyrants
				Total System	Distr. Only	Maximum Day		Maximum Hour			Billing Mtr Rdng	Equiv. Meters	Equiv. Services	
						System	Distr.	System	Distr.	Storage				
			$	$	$	$	$	$	$	$	$	$	$	$
SUMMARY: REVENUE REQUIREMENT														
Total O & M Expense			4,082,748	2,098,230	181,209	955,030	-	-	258,223	58,305	164,542	115,239	141,836	110,134
Depreciation Expense		24	1,861,290	1,011,393	10,604	650,160	-	-	15,111	33,212	-	51,698	54,652	34,459
Tax Equivalent Payment		20	1,586,203	641,139	132,985	410,068	-	-	189,503	25,558	-	27,486	91,940	67,525
Taxes - FICA	Alt. Code 25	20	120,450	48,686	10,098	31,139	-	-	14,390	1,941	-	2,087	6,982	5,128
PSC Remainder Assess.	Alt. Code 22	20	8,100	3,274	679	2,094	-	-	968	131	-	140	469	345
Return on Rate Base - Oak Creek Retail ROR		22	2,079,855	1,111,063	23,505	707,821	-	-	33,494	50,368	-	54,169	54,302	45,133
TOTAL REVENUE REQUIREMENT			9,738,646	4,913,784	359,080	2,756,313	-	-	511,690	169,515	164,542	250,819	350,180	262,724
% OF TOTAL			100.00%	50.46%	3.69%	28.30%	0.00%	0.00%	5.25%	1.74%	1.69%	2.58%	3.60%	2.70%
O&M Expense (incl. FICA)			4,211,298	2,150,189	191,986	988,263	-	-	273,581	60,376	164,542	117,467	149,287	115,607
Capital Related			5,527,348	2,763,594	167,094	1,768,050	-	-	238,109	109,138	-	133,353	200,893	147,117
TOTAL REVENUE REQUIREMENT			9,738,646	4,913,784	359,080	2,756,313	-	-	511,690	169,515	164,542	250,819	350,180	262,724
% OF TOTAL			100.00%	50.46%	3.69%	28.30%	0.00%	0.00%	5.25%	1.74%	1.69%	2.58%	3.60%	2.70%

Billable Units	2,520,300	**# Bills**	**Eq. Mtrs**	**Eq. Svcs**	**# Hyd.**
Unit Costs	$2.0922	8,847	13,269	9,770	2,107
Elec. Power & Chem. Cost (Incl. Purch. Water)	$0.2404				
Base Cost Excluding Distr. System	$1.9497	**$/Bill**	**$/Eq. Mtr**	**$/Eq. Svc**	**$/Hyd.**
Resale Ave. Cost w/o Distr. System	$3.0433	$18.60	$18.90	$35.84	$124.69

TOTAL REVENUE REQUIREMENT @ WHOLESALE RATE OF RETURN

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Description		Alloc. Code	Total	Base Cost		Extra Capacity					Customer Cost			Fire Hyrants
				Total System	Distr. Only	Maximum Day		Maximum Hour			Billing Mtr Rdng	Equiv. Meters	Equiv. Services	
						System	Distr.	System	Distr.	Storage				
			$	$	$	$	$	$	$	$	$	$	$	$
SUMMARY: REVENUE REQUIREMENT														
Total O & M Expense			4,082,748	2,098,230	181,209	955,030	-	-	258,223	58,305	164,542	115,239	141,836	110,134
Depreciation Expense		24	1,861,290	1,011,393	10,604	650,160	-	-	15,111	33,212	-	51,698	54,652	34,459
Tax Equivalent Payment		20	1,586,203	641,139	132,985	410,068	-	-	189,503	25,558	-	27,486	91,940	67,525
Taxes - FICA	Alt. Code 25	20	120,450	48,686	10,098	31,139	-	-	14,390	1,941	-	2,087	6,982	5,128
PSC Remainder Assess.	Alt. Code 23	20	8,100	3,274	679	2,094	-	-	968	131	-	140	469	345
Return on Rate Base - Whsle Customer ROR		22	2,970,069	1,586,616	33,565	1,010,781	-	-	47,831	71,927	-	77,354	77,544	64,451
TOTAL REVENUE REQUIREMENT			10,628,860	5,389,338	369,141	3,059,273	-	-	526,026	191,073	164,542	274,005	373,422	282,041
% OF TOTAL			100.00%	50.70%	3.47%	28.78%	0.00%	0.00%	4.95%	1.80%	1.55%	2.58%	3.51%	2.65%
O&M Expense (incl. FICA)			4,211,298	2,150,189	191,986	988,263	-	-	273,581	60,376	164,542	117,467	149,287	115,607
Capital Related			6,417,562	3,239,148	177,154	2,071,010	-	-	252,445	130,697	-	156,538	224,135	166,434
TOTAL REVENUE REQUIREMENT			10,628,860	5,389,338	369,141	3,059,273	-	-	526,026	191,073	164,542	274,005	373,422	282,041
% OF TOTAL			100.00%	50.70%	3.47%	28.78%	0.00%	0.00%	4.95%	1.80%	1.55%	2.58%	3.51%	2.65%

Billable Units	2,520,300	**# Cust.**	**Eq. Mtrs**	**Eq. Svcs**	**# Hyd.**
Unit Costs	$2.2848	8,847	13,269	9,770	2,107
Elec. Power & Chem. Cost (Incl. Purch. Water)	$0.2404				
Base Cost Excluding Distr. System	$2.1384	**$/Cust.**	**$/Eq. Mtr**	**$/Eq. Svc**	**$/Hyd.**
Resale Ave. Cost w/o Distr. System	$3.3522	$18.60	$20.65	$38.22	$133.86

OPERATION & MAINTENANCE EXPENSE

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Description	Alloc. Code	Verified OK Total	Base Cost Total System	Base Cost Distr. Only	Extra Capacity Maximum Day System	Extra Capacity Maximum Day Distr.	Extra Capacity Maximum Hour System	Extra Capacity Maximum Hour Distr.	Extra Capacity Maximum Hour Storage	Customer Cost Billing Mtr Rdng	Customer Cost Equiv. Meters	Customer Cost Equiv. Services	Fire Hyrants
		$	$	$	$	$	$	$	$	$	$	$	$
Source of Supply Expense:													
Labor	3	39,300	23,703	-	15,597	-	-	-	-	-	-	-	-
Other Source of Supply Expense	3	65,186	39,316	-	25,870	-	-	-	-	-	-	-	-
Pumping Expenses:													
Labor - High Service (Full System)	3	159,550	96,230	-	63,320	-	-	-	-	-	-	-	-
Elec. Power & Fuel for Pumping	1	374,650	374,650	-	-	-	-	-	-	-	-	-	-
Mtce. of Pumping Eqmt. - HS System	3	111,950	67,521	-	44,429	-	-	-	-	-	-	-	-
All Other Pumping Expense	3	152,940	92,244	-	60,696	-	-	-	-	-	-	-	-
Water Treatment Expense:													
Chemicals	1	231,250	231,250	-	-	-	-	-	-	-	-	-	-
Labor	3	480,400	289,747	-	190,653	-	-	-	-	-	-	-	-
All Other Water Treatment Expense	3	321,889	194,143	-	127,746	-	-	-	-	-	-	-	-
Trans. & Distr. Expense:													
Operation Labor		229,550	37,699	36,109	19,436	-	-	51,455	11,629	-	22,998	28,270	21,954
Distr. Reservoirs	10	38,850	16,021	-	-	-	-	-	22,829	-	-	-	-
Transmission Mains	3	96,147	57,990	-	38,157	-	-	-	-	-	-	-	-
Distribution Mains	6	171,903	-	70,888	-	-	-	101,015	-	-	-	-	-
Services	13	55,500	-	-	-	-	-	-	-	-	-	55,500	-
Meters	12	45,150	-	-	-	-	-	-	-	-	45,150	-	-
Hydrants	14	43,100	-	-	-	-	-	-	-	-	-	-	43,100
All Other Trans. & Distr. Expense		28,810	4,731	4,532	2,439	-	-	6,458	1,459	-	2,886	3,548	2,755
Customer Account Expense:													
Meter Reading	11	5,450	-	-	-	-	-	-	-	5,450	-	-	-
Customer Acctg. & Collecting	11	96,050	-	-	-	-	-	-	-	96,050	-	-	-
O&M w/o Pwr & Chem.		2,141,725	919,345	111,528	588,344	-	-	158,928	35,918	101,500	71,035	87,318	67,809
% of Total	25	100.00%	42.93%	5.21%	27.47%	0.00%	0.00%	7.42%	1.68%	4.74%	3.32%	4.08%	3.17%
O&M w/o Pwr, Chem., & Billing		2,040,225	919,345	111,528	588,344	-	-	158,928	35,918	-	71,035	87,318	67,809
% of Total	26	100.00%	45.06%	5.47%	28.84%	0.00%	0.00%	7.79%	1.76%	0.00%	3.48%	4.28%	3.32%
Labor Expense		1,010,300	447,379	36,109	289,006	-	-	51,455	11,629	101,500	22,998	28,270	21,954
% of Total	27	100.00%	44.28%	3.57%	28.61%	0.00%	0.00%	5.09%	1.15%	10.05%	2.28%	2.80%	2.17%

OPERATION & MAINTENANCE EXPENSE

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Description	Alloc. Code	Verified OK Total	Base Cost Total System	Base Cost Distr. Only	Extra Capacity Maximum Day System	Extra Capacity Maximum Day Distr.	Extra Capacity Maximum Hour System	Extra Capacity Maximum Hour Distr.	Extra Capacity Maximum Hour Storage	Customer Cost Billing Mtr Rdng	Customer Cost Equiv. Meters	Customer Cost Equiv. Services	Fire Hyrants
		$	$	$	$	$	$	$	$	$	$	$	$
Admin. & General Expense:													
A & G Salaries	25	114,127	48,990	5,943	31,351	-	-	8,469	1,914	5,409	3,785	4,653	3,613
Office Supplies & Expense	25	53,800	23,094	2,802	14,779	-	-	3,992	902	2,550	1,784	2,193	1,703
Outside Services	25	129,700	55,674	6,754	35,629	-	-	9,624	2,175	6,147	4,302	5,288	4,106
Property Insurance	20	4,900	1,981	411	1,267	-	-	585	79	-	85	284	209
Injuries & Damages	25	59,450	25,519	3,096	16,331	-	-	4,412	997	2,817	1,972	2,424	1,882
Pensions & Benefits	25	884,121	379,513	46,040	242,873	-	-	65,607	14,827	41,900	29,324	36,046	27,992
Regulatory Commission Exp.	25	25,000	10,731	1,302	6,868	-	-	1,855	419	1,185	829	1,019	792
Misc. General Expense	25	64,025	27,483	3,334	17,588	-	-	4,751	1,074	3,034	2,124	2,610	2,027
Total A & G Expense		1,335,123	572,985	69,681	366,687	-	-	99,295	22,387	63,042	44,205	54,517	42,325
TOTAL O&M EXPENSE		4,082,748	2,098,230	181,209	955,030	-	-	258,223	58,305	164,542	115,239	141,836	110,134
% OF TOTAL		100.00%	51.39%	4.44%	23.39%	0.00%	0.00%	6.32%	1.43%	4.03%	2.82%	3.47%	2.70%

DEPRECIATION EXPENSE

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Description	Alloc. Code	Verified OK Total	Base Cost Total System	Base Cost Distr. Only	Extra Capacity Maximum Day System	Extra Capacity Maximum Day Distr.	Extra Capacity Maximum Hour System	Extra Capacity Maximum Hour Distr.	Extra Capacity Maximum Hour Storage	Customer Cost Billing Mtr Rdng	Customer Cost Equiv. Meters	Customer Cost Equiv. Services	Fire Hyrants
		$	$	$	$	$	$	$	$	$	$	$	$
SOURCE OF SUPPLY PLANT:													
Lake & Other Intakes	3	96,432	58,162	-	38,270	-	-	-	-	-	-	-	-
Wells & springs	3	5,813	3,506	-	2,307	-	-	-	-	-	-	-	-
Supply Mains	3	6,882	4,151	-	2,731	-	-	-	-	-	-	-	-
PUMPING PLANT:													
Struct. & Improv. (High Srvc. Total System)	3	63,392	38,234	-	25,158	-	-	-	-	-	-	-	-
Other Power Prod. Eqmt.	3	158,934	95,859	-	63,075	-	-	-	-	-	-	-	-
Elec. Pump. Eqmt (High Srvc. Total System)	3	133,767	80,680	-	53,087	-	-	-	-	-	-	-	-
WATER TREATMENT PLANT:													
Struct. & Improv.	3	391,169	235,928	-	155,241	-	-	-	-	-	-	-	-
Water Treatment Eqmt.	3	423,478	255,415	-	168,063	-	-	-	-	-	-	-	-
TRANS. & DISTRIBUTION PLANT:													
Distr. Reserv. & Stand.	9	51,505	21,239	-	-	-	-	-	30,266	-	-	-	-
Transmission Mains	3	213,034	128,488	-	84,545	-	-	-	-	-	-	-	-
Distribution Mains	6	23,434	-	9,664	-	-	-	13,771	-	-	-	-	-
Services	13	49,803	-	-	-	-	-	-	-	-	-	49,803	-
Meters	12	47,111	-	-	-	-	-	-	-	-	47,111	-	-
Hydrants	14	31,402	-	-	-	-	-	-	-	-	-	-	31,402
Sub-total B4 General		1,696,156	921,662	9,664	592,478	-	-	13,771	30,266	-	47,111	49,803	31,402
% of Total	23	100.00%	54.34%	0.57%	34.93%	0.00%	0.00%	0.81%	1.78%	0.00%	2.78%	2.94%	1.85%
GENERAL PLANT:													
Struct. & Improv.	23	66,811	36,304	381	23,338	-	-	542	1,192	-	1,856	1,962	1,237
Office Furn. & Eqmt.	23	7,994	4,344	46	2,792	-	-	65	143	-	222	235	148
Office Eqmt. - Computer	23	9,100	4,945	52	3,179	-	-	74	162	-	253	267	168
Transport. Eqmt.	23	33,800	18,366	193	11,807	-	-	274	603	-	939	992	626
Tools, Shop, & Garage	23	1,900	1,032	11	664	-	-	15	34	-	53	56	35
Laboratory Equipment	23	417	227	2	146	-	-	3	7	-	12	12	8
Power Operated Eqmt.	23	5,800	3,152	33	2,026	-	-	47	103	-	161	170	107
Communications Eqmt.	23	17,500	9,509	100	6,113	-	-	142	312	-	486	514	324
SCADA System	23	16,200	8,803	92	5,659	-	-	132	289	-	450	476	300
Misc. Eqmt.	23	5,612	3,049	32	1,960	-	-	46	100	-	156	165	104
Total Genrl. & Intangible		165,134	89,731	941	57,682	-	-	1,341	2,947	-	4,587	4,849	3,057
DEPRECIATION EXPENSE		1,861,290	1,011,393	10,604	650,160	-	-	15,111	33,212	-	51,698	54,652	34,459
% OF TOTAL	24	100.00%	54.34%	0.57%	34.93%	0.00%	0.00%	0.81%	1.78%	0.00%	2.78%	2.94%	1.85%

UTILITY FINANCED PLANT-IN-SERVICE / RATE BASE

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Description		Alloc. Code	Verified OK Total	Base Cost Total System	Base Cost Distr. Only	Extra Capacity Maximum Day System	Extra Capacity Maximum Day Distr.	Extra Capacity Maximum Hour System	Extra Capacity Maximum Hour Distr.	Extra Capacity Maximum Hour Storage	Customer Cost Billing Mtr Rdng	Customer Cost Equiv. Meters	Customer Cost Equiv. Services	Fire Hyrants
			$	$	$	$	$	$	$	$	$	$	$	$
SOURCE OF SUPPLY PLANT:														
Land & Land Rights		3	21,060	12,702	-	8,358	-	-	-	-	-	-	-	-
Lake & Other Intakes		3	5,672,464	3,421,269	-	2,251,195	-	-	-	-	-	-	-	-
Wells & springs		3	200,459	120,904	-	79,555	-	-	-	-	-	-	-	-
Supply Mains		3	382,344	230,606	-	151,738	-	-	-	-	-	-	-	-
PUMPING PLANT:														
Land & Land Rights		3	18,610	11,224	-	7,386	-	-	-	-	-	-	-	-
Struct. & Improv. (High Srvc. Total System)		3	1,981,008	1,194,818	-	786,190	-	-	-	-	-	-	-	-
Other Power Prod. Eqmt.		3	3,612,136	2,178,610	-	1,433,526	-	-	-	-	-	-	-	-
Elec. Pump. Eqmt (High Srvc. Total System)		3	3,040,149	1,833,624	-	1,206,525	-	-	-	-	-	-	-	-
Other Pumping Eqmt.		3	44,613	26,908	-	17,705	-	-	-	-	-	-	-	-
WATER TREATMENT PLANT:														
Land & Land Rights		3	31,500	18,999	-	12,501	-	-	-	-	-	-	-	-
Struct. & Improv.		3	12,224,038	7,372,761	-	4,851,277	-	-	-	-	-	-	-	-
Water Treatment Eqmt.		3	12,832,681	7,739,856	-	5,092,825	-	-	-	-	-	-	-	-
TRANS. & DISTRIBUTION PLANT:														
Land & Land Rights			27,556	11,769	795	6,957	-	-	1,133	1,704	-	1,833	1,837	1,527
Distr. Reserv. & Stand.		9	2,710,774	1,117,845	-	-	-	-	-	1,592,929	-	-	-	-
Transmission Mains	3 or 7	3	16,387,227	9,883,732	-	6,503,496	-	-	-	-	-	-	-	-
Distribution Mains	6 or 8	6	1,802,635	-	743,354	-	-	-	1,059,280	-	-	-	-	-
Services		13	1,717,328	-	-	-	-	-	-	-	-	-	1,717,328	-
Meters		12	1,713,124	-	-	-	-	-	-	-	-	1,713,124	-	-
Hydrants		14	1,427,356	-	-	-	-	-	-	-	-	-	-	1,427,356
Sub-total B4 General			65,847,063	35,175,628	744,150	22,409,234	-	-	1,060,413	1,594,633	-	1,714,956	1,719,166	1,428,883
% of Total		21	100.00%	53.42%	1.13%	34.03%	0.00%	0.00%	1.61%	2.42%	0.00%	2.60%	2.61%	2.17%
GENERAL PLANT:														
Land & Land Rights		21	19,717	10,533	223	6,710	-	-	318	477	-	514	515	428
Struct. & Improv.		21	2,303,832	1,230,711	26,036	784,046	-	-	37,101	55,792	-	60,002	60,150	49,993
Office Furn. & Eqmt.		21	137,830	73,629	1,558	46,907	-	-	2,220	3,338	-	3,590	3,599	2,991
Office Eqmt. - Computer		21	198,620	106,103	2,245	67,595	-	-	3,199	4,810	-	5,173	5,186	4,310
Transport. Eqmt.		21	452,142	241,535	5,110	153,874	-	-	7,281	10,950	-	11,776	11,805	9,811
Tools, Shop, & Garage		21	85,688	45,775	968	29,162	-	-	1,380	2,075	-	2,232	2,237	1,859
Laboratory Equipment		21	7,189	3,840	81	2,447	-	-	116	174	-	187	188	156
Power Operated Eqmt.		21	154,649	82,614	1,748	52,631	-	-	2,490	3,745	-	4,028	4,038	3,356
Communications Eqmt.		21	239,632	128,012	2,708	81,552	-	-	3,859	5,803	-	6,241	6,256	5,200
SCADA System		21	1,329,069	709,991	15,020	452,312	-	-	21,404	32,186	-	34,615	34,700	28,841
Misc. Eqmt.		21	96,761	51,690	1,094	32,930	-	-	1,558	2,343	-	2,520	2,526	2,100
Total Genrl. & Intangible		21	5,025,130	2,684,434	56,790	1,710,164	-	-	80,926	121,695	-	130,877	131,198	109,045

UTILITY FINANCED PLANT-IN-SERVICE / RATE BASE

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Description	Alloc. Code	Verified OK Total	Base Cost Total System	Base Cost Distr. Only	Extra Capacity Maximum Day System	Extra Capacity Maximum Day Distr.	Extra Capacity Maximum Hour System	Extra Capacity Maximum Hour Distr.	Extra Capacity Maximum Hour Storage	Customer Cost Billing Mtr Rdng	Customer Cost Equiv. Meters	Customer Cost Equiv. Services	Fire Hyrants
		$	$	$	$	$	$	$	$	$	$	$	$
TOTAL UTILITY FINANCED PLANT	21	70,872,192	37,860,062	800,940	24,119,399	-	-	1,141,339	1,716,328	-	1,845,834	1,850,364	1,537,928
Less: Accum. Depreciation	21	19,201,193	10,257,314	216,996	6,534,597	-	-	309,220	465,000	-	500,086	501,314	416,666
NET PLANT-IN-SERVICE		51,670,999	27,602,747	583,943	17,584,801	-	-	832,119	1,251,328	-	1,345,747	1,349,050	1,121,262
Add: Matrl. & Supplies	21	62,081	33,164	702	21,127	-	-	1,000	1,503	-	1,617	1,621	1,347
Less: Regulatory Liability & Other	21	2,231,933	1,192,303	25,223	759,577	-	-	35,943	54,051	-	58,130	58,272	48,433
NET RATE BASE		49,501,147	26,443,608	559,421	16,846,352	-	-	797,176	1,198,780	-	1,289,235	1,292,399	1,074,176
% OF TOTAL	22	100.00%	53.42%	1.13%	34.03%	0.00%	0.00%	1.61%	2.42%	0.00%	2.60%	2.61%	2.17%

TOTAL PLANT (UTILITY FINANCED & CONTRIBUTED)

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Description	Alloc. Code	Verified OK Total	Base Cost Total System	Base Cost Distr. Only	Extra Capacity Maximum Day System	Extra Capacity Maximum Day Distr.	Extra Capacity Maximum Hour System	Extra Capacity Maximum Hour Distr.	Extra Capacity Maximum Hour Storage	Customer Cost Billing Mtr Rdng	Customer Cost Equiv. Meters	Customer Cost Equiv. Services	Fire Hyrants
		$	$	$	$	$	$	$	$	$	$	$	$
SOURCE OF SUPPLY PLANT:													
Land & Land Rights	3	21,060	12,702	-	8,358	-	-	-	-	-	-	-	-
Lake & Other Intakes	3	5,672,464	3,421,269	-	2,251,195	-	-	-	-	-	-	-	-
Wells & springs	3	200,459	120,904	-	79,555	-	-	-	-	-	-	-	-
Supply Mains	3	382,344	230,606	-	151,738	-	-	-	-	-	-	-	-
PUMPING PLANT:													
Land & Land Rights	3	18,610	11,224	-	7,386	-	-	-	-	-	-	-	-
Struct. & Improv. (High Srvc. Total System)	3	2,638,173	1,591,178	-	1,046,995	-	-	-	-	-	-	-	-
Other Power Prod. Eqmt.	3	3,612,136	2,178,610	-	1,433,526	-	-	-	-	-	-	-	-
Elec. Pump. Eqmt (High Srvc. Total System)	3	3,334,590	2,011,212	-	1,323,378	-	-	-	-	-	-	-	-
Other Pumping Eqmt.	3	44,613	26,908	-	17,705	-	-	-	-	-	-	-	-
WATER TREATMENT PLANT:													
Land & Land Rights	3	31,500	18,999	-	12,501	-	-	-	-	-	-	-	-
Struct. & Improv.	3	12,224,038	7,372,761	-	4,851,277	-	-	-	-	-	-	-	-
Water Treatment Eqmt.	3	12,832,681	7,739,856	-	5,092,825	-	-	-	-	-	-	-	-
TRANS. & DISTRIBUTION PLANT:													
Land & Land Rights		27,556	7,255	3,947	4,423	-	-	5,624	759	-	816	2,729	2,004
Distr. Reserv. & Stand.	9	2,710,774	1,117,845	-	-	-	-	-	1,592,929	-	-	-	-
Transmission Mains	3	23,407,371	14,117,835	-	9,289,535	-	-	-	-	-	-	-	-
Distribution Mains	6	20,099,636	-	8,288,510	-	-	-	11,811,127	-	-	-	-	-
Services	13	5,730,298	-	-	-	-	-	-	-	-	-	5,730,298	-
Meters	12	1,713,124	-	-	-	-	-	-	-	-	1,713,124	-	-
Hydrants	14	4,208,593	-	-	-	-	-	-	-	-	-	-	4,208,593
Sub-total B4 General		98,910,021	39,979,164	8,292,457	25,570,398	-	-	11,816,751	1,593,688	-	1,713,940	5,733,027	4,210,597
% of Total	20	100.00%	40.42%	8.38%	25.85%	0.00%	0.00%	11.95%	1.61%	0.00%	1.73%	5.80%	4.26%
GENERAL PLANT:													
Land & Land Rights	20	19,717	7,970	1,653	5,097	-	-	2,356	318	-	342	1,143	839
Struct. & Improv.	20	2,303,832	931,203	193,150	595,591	-	-	275,238	37,120	-	39,921	133,535	98,074
Office Furn. & Eqmt.	20	137,830	55,711	11,555	35,632	-	-	16,467	2,221	-	2,388	7,989	5,867
Office Eqmt. - Computer	20	198,620	80,282	16,652	51,348	-	-	23,729	3,200	-	3,442	11,512	8,455
Transport. Eqmt.	20	452,142	182,755	37,907	116,889	-	-	54,017	7,285	-	7,835	26,207	19,248
Tools, Shop, & Garage	20	85,688	34,635	7,184	22,152	-	-	10,237	1,381	-	1,485	4,967	3,648
Laboratory Equipment	20	7,189	2,906	603	1,859	-	-	859	116	-	125	417	306
Power Operated Eqmt.	20	154,649	62,509	12,966	39,980	-	-	18,476	2,492	-	2,680	8,964	6,583
Communications Eqmt.	20	239,632	96,859	20,090	61,950	-	-	28,629	3,861	-	4,152	13,890	10,201
SCADA System	20	1,363,304	551,044	114,297	352,444	-	-	162,874	21,966	-	23,624	79,020	58,036
Misc. Eqmt.	20	96,761	39,111	8,112	25,015	-	-	11,560	1,559	-	1,677	5,608	4,119
Total Genrl. & Intangible	20	5,059,365	2,044,982	424,169	1,307,956	-	-	604,441	81,519	-	87,670	293,251	215,377
TOTAL ALL PLANT		103,969,386	42,024,146	8,716,626	26,878,354	-	-	12,421,191	1,675,207	-	1,801,610	6,026,278	4,425,974
% OF TOTAL	20	100.00%	40.42%	8.38%	25.85%	0.00%	0.00%	11.95%	1.61%	0.00%	1.73%	5.80%	4.26%

ALLOCATION CODES

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

Description	Alloc. Code	Total	Base Cost		Extra Capacity					Customer Cost			Fire Hyrants
			Total System	Distr. Only	Maximum Day		Maximum Hour			Billing Mtr Rdng	Equiv. Meters	Equiv. Services	
					System	Distr.	System	Distr.	Storage				
		$	$	$	$	$	$	$	$	$	$	$	$
Base 100% - Total System	1	100.00%	100.00%										
Base 100% - Distribution Only	2	100.00%		100.00%									
Max Day - Total System	3	100.00%	60.31%		39.69%								
Max Day - Distribution Only	4	100.00%		60.31%		39.69%							
Max Hour - Total System	5	100.00%	41.24%				58.76%						
Max Hour - Distribution Only	6	100.00%		41.24%				58.76%					
Base / Max Day / Max Hour - Total System	7	100.00%	41.24%		27.13%		31.63%						
Base / Max Day / Max Hour - Distr. Only	8	100.00%		41.24%		27.13%		31.63%					
Elevated Storage System % 100%	9	100.00%	41.24%	0.00%				0.00%	58.76%				
Elevated Storage Mtce. System % 100%	10	100.00%	41.24%	0.00%				0.00%	58.76%				
Billing 100%	11	100.00%								100.00%			
Equiv. Meters 100%	12	100.00%									100.00%		
Equiv. Services 100%	13	100.00%										100.00%	
Hydrants 100%	14	100.00%											100.00%
Total Plant %	20	100.00%	40.42%	8.38%	25.85%	0.00%	0.00%	11.95%	1.61%	0.00%	1.73%	5.80%	4.26%
Utility Financed Plant %	21	100.00%	53.42%	1.13%	34.03%	0.00%	0.00%	1.61%	2.42%	0.00%	2.60%	2.61%	2.17%
Rate Base %	22	100.00%	53.42%	1.13%	34.03%	0.00%	0.00%	1.61%	2.42%	0.00%	2.60%	2.61%	2.17%
Depreciation Expense % B4 A&G	23	100.00%	54.34%	0.57%	34.93%	0.00%	0.00%	0.81%	1.78%	0.00%	2.78%	2.94%	1.85%
Depreciation Expense %	24	100.00%	54.34%	0.57%	34.93%	0.00%	0.00%	0.81%	1.78%	0.00%	2.78%	2.94%	1.85%
O&M w/o Pwr & Chem B4 A&G	25	100.00%	42.93%	5.21%	27.47%	0.00%	0.00%	7.42%	1.68%	4.74%	3.32%	4.08%	3.17%
O&M w/o Pwr, Chem., & Billing	26	100.00%	45.06%	5.47%	28.84%	0.00%	0.00%	7.79%	1.76%	0.00%	3.48%	4.28%	3.32%
Labor Expense %	27	100.00%	44.28%	3.57%	28.61%	0.00%	0.00%	5.09%	1.15%	10.05%	2.28%	2.80%	2.17%

BILLS, EQUIVALENT METERS, & EQUIVALENT SERVICES

		Number of Bills		Equivalent Meters			Equivalent Services		
		# Cust.	% of Total	Ratio	# Equiv.	% of Total	Ratio	# Equiv.	% of Total
Residential									
	0.625	7,795		1.00	7,795.0		1.00	7,795.0	
	0.75	8		1.00	8.0		1.00	8.0	
	1	7		2.50	17.5		1.30	9.1	
	1.5	1		5.00	5.0		2.00	2.0	
	2	1		8.00	8.0		3.00	3.0	
Total		7,812	88.30%		7,833.5	59.04%		7,817.1	80.01%
Commercial									
	0.625	220		1.00	220.0		1.00	220.0	
	0.75	30		1.00	30.0		1.00	30.0	
	1	310		2.50	775.0		1.30	403.0	
	1.5	166		5.00	830.0		2.00	332.0	
	2	199		8.00	1,592.0		3.00	597.0	
	3	17		15.00	255.0		4.00	68.0	
	4	7		25.00	175.0		5.00	35.0	
	6	1		50.00	50.0		6.00	6.0	
Total		950	10.74%		3,927.0	29.60%		1,691.0	17.31%
Industrial									
	0.625	2		1.00	2.0		1.00	2.0	
	1	4		2.50	10.0		1.30	5.2	
	1.5	2		5.00	10.0		2.00	4.0	
	2	5		8.00	40.0		3.00	15.0	
	3	5		15.00	75.0		4.00	20.0	
	4	2		25.00	50.0		5.00	10.0	
	6	1		50.00	50.0		6.00	6.0	
	8	2		80.00	160.0		7.00	14.0	
Total		23	0.26%		397.0	2.99%		76.2	0.78%
Public Auth.									
	0.625	8		1.00	8.0		1.00	8.0	
	0.75	3		1.00	3.0		1.00	3.0	
	1	7		2.50	17.5		1.30	9.1	
	1.5	12		5.00	60.0		2.00	24.0	
	2	16		8.00	128.0		3.00	48.0	
	3	4		15.00	60.0		4.00	16.0	
	4	3		25.00	75.0		5.00	15.0	
	6	2		50.00	100.0		6.00	12.0	
Total		55	0.62%		451.5	3.40%		135.1	1.38%
Total (Inside)		8,840	99.92%		12,609.0	95.03%		9,719.4	99.48%

BILLS, EQUIVALENT METERS, & EQUIVALENT SERVICES

		Number of Bills		Equivalent Meters			Equivalent Services		
		# Cust.	% of Total	Ratio	# Equiv.	% of Total	Ratio	# Equiv.	% of Total
Wholesale									
Franklin									
	10	4		120.00	480.0		8.00	32.0	
		4	0.05%		480	3.62%		32	0.33%
Caledonia									
	6	2		50.00	100.0		6.00	12.0	
	8	1		80.00	80.0		7.00	7.0	
		3	0.03%		180	1.36%		19	0.19%
x									
		0	0.00%		0	0.00%		0	0.00%
Total		7.0	0.08%		660.0	4.97%		51.0	0.52%
Total - All Classes		8,847	100.00%		13,269.0	100.00%		9,770.4	100.00%

CUSTOMER CHARGE CALCULATION

Meter Size	Annual Cost per Cust.	Equiv. Meter Ratio	Annual Meter Cost	Equiv. Service Ratio	Annual Service Cost	Total Annual Cost For Quarterly Billing	Calc. Quarterly Bill	Present Quarterly Bill	Target Mthly	USE	% Incr. Over Present	% +/- COS	Round Factor	$ Adj.	% Adj.
5/8	18.60	1.00	18.90	1.00	35.84	73.34	18.34	21.63	7.25	28.75	33%	57%	4	$7.00	37.8%
3/4	18.60	1.00	18.90	1.00	35.84	73.34	18.34	21.63	7.25	28.75	33%	57%	4	$7.00	
1"	18.60	2.50	47.26	1.30	46.59	112.45	28.11	33.99	11.00	44.00	29%	57%	1	$11.00	
1¼"	18.60	3.70	69.94	1.70	60.93	149.47	37.37	50.99	17.00	65.00	27%	74%	1	$14.00	
1½"	18.60	5.00	94.51	2.00	71.68	184.79	46.20	64.89	22.00	83.00	28%	80%	1	$17.00	
2"	18.60	8.00	151.22	3.00	107.52	277.34	69.34	95.79	32.00	122.00	27%	76%	1	$26.00	
3"	18.60	15.00	283.54	4.00	143.36	445.50	111.38	169.95	57.00	213.00	25%	91%	1	$42.00	
4"	18.60	25.00	472.57	5.00	179.20	670.37	167.59	278.10	93.00	342.00	23%	104%	1	$63.00	
6"	18.60	50.00	945.13	6.00	215.05	1178.78	294.69	556.20	185.00	666.00	20%	126%	1	$111.00	
8"	18.60	80.00	1512.21	7.00	250.89	1781.70	445.42	896.10	299.00	1065.00	19%	139%	1	$168.00	
10"	18.60	120.00	2268.32	8.00	286.73	2573.65	643.41	1328.70	443.00	1572.00	18%	144%	1	$243.00	
12"	18.60	160.00	3024.43	9.00	322.57	3365.59	841.40	1761.30	587.00	2079.00	18%	147%	1	$318.00	

Customer Charge Data:	$
$/bill	$18.60
$/eq. meter	$18.90
$/eq. service	$35.84

PRIVATE FIRE PROTECTION CHARGE CALCULATION

Fire Protection (Excl Hydrants):		Pvt. Fire Size	Equiv. 6" Ratio	# of Conn.	# of 6" Equiv.	Annual Cost For 6" Equiv.	Total Annual Cost For Quarterly Billing	Calc. Quarterly Bill	Present Quarterly Bill	Target Mthly	USE	% Incr. Over Present	% +/- COS	Round Factor	$ Adj.
Fire Prot. Base Cost	0	2	0.16	159	25.440	$318.64	50.98	12.75	12.00	4.00	12.00	0%	-6%	4	$0.00
Fire Prot. Max Day	657,505	3	0.30	0	0.000	318.64	95.59	23.90	21.00	7.00	21.00	0%	-12%	4	$0.00
Fire Prot. Max Hour	187,863	4	0.50	76	38.000	318.64	159.32	39.83	39.00	13.00	39.00	0%	-2%	1	$0.00
Total	$845,369	6	1.00	169	169.000	318.64	318.64	79.66	72.00	24.00	72.00	0%	-10%	1	$0.00
		8	1.60	148	236.800	318.64	509.83	127.46	102.00	34.00	102.00	0%	-20%	1	$0.00
		10	2.40	12	28.800	318.64	764.74	191.18	150.00	50.00	150.00	0%	-22%	1	$0.00
		12	3.20	15	48.000	318.64	1,019.65	254.91	192.00	64.00	192.00	0%	-25%	1	$0.00
		14	4.00	0	0.000	318.64	1,274.57	318.64	246.00	82.00	246.00	0%	-23%	1	$0.00
		16	4.80	0	0.000	318.64	1,529.48	382.37	300.00	100.00	300.00	0%	-22%	1	$0.00
		# Hydrants (assume all 6-inch)			2,107.000										
		Total 6-inch Equivalents			2,653.040										

2	Cost-of-Service Based (1) Hold at Current Level (2)

CUSTOMER CHARGE CALCULATION - WHOLESALE CUSTOMERS

Meter Size	Annual Cost per Cust.	Equiv. Meter Ratio	Annual Meter Cost	Equiv. Service Ratio	Annual Service Cost	Total Annual Cost For Quarterly Billing	Calc. Quarterly Bill	Present Quarterly Bill	Target Mthly	USE	% Incr. Over Present	% +/- COS	Round Factor	$ Adj.	% Adj.
5/8	18.60	1.00	20.65	1.00	38.22	77.47	19.37	21.63	7.25	21.75	1%	12%	4	$0.00	
3/4	18.60	1.00	20.65	1.00	38.22	77.47	19.37	21.63	7.25	21.75	1%	12%	4	$0.00	
1"	18.60	2.50	51.62	1.30	49.69	119.91	29.98	33.99	11.00	33.00	-3%	10%	1	$0.00	
1¼"	18.60	3.70	76.40	1.70	64.97	159.98	39.99	50.99	17.00	51.00	0%	28%	1	$0.00	
1½"	18.60	5.00	103.25	2.00	76.44	198.29	49.57	64.89	22.00	66.00	2%	33%	1	$0.00	
2"	18.60	8.00	165.20	3.00	114.66	298.46	74.61	95.79	32.00	96.00	0%	29%	1	$0.00	
3"	18.60	15.00	309.75	4.00	152.88	481.23	120.31	169.95	57.00	171.00	1%	42%	1	$0.00	
4"	18.60	25.00	516.25	5.00	191.10	725.95	181.49	278.10	93.00	279.00	0%	54%	1	$0.00	
6"	18.60	50.00	1032.50	6.00	229.32	1280.42	320.10	556.20	185.00	555.00	0%	73%	1	$0.00	
8"	18.60	80.00	1652.00	7.00	267.54	1938.14	484.53	896.10	299.00	897.00	0%	85%	1	$0.00	
10"	18.60	120.00	2478.00	8.00	305.76	2802.35	700.59	1328.70	443.00	1329.00	0%	90%	1	$0.00	
12"	18.60	160.00	3304.00	9.00	343.98	3666.57	916.64	1761.30	587.00	1761.00	0%	92%	1	$0.00	

Customer Charge Data:	$
$/bill	$18.60
$/eq. meter	$20.65
$/eq. service	$38.22

DEMANDS: AVERAGE DAY & MAXIMUM DAY

Year	Annual Pumpage (Mgal)	Ave. Day (Mgal/day)	Max. (Mgal/day)	Max Day Ratio	Max Day Day/Date & Explanation		Water Sales (Mgal)	% Un-Accounted
	W-14							
2001	2,654,740	7253.4	15,594.0	2.150	07/09/2001	Dry weather	2,388,974	10.01%
2002	2,622,038	7183.7	15,627.0	2.175	07/16/2002	Dry, hot weather	2,413,249	7.96%
2003	2,683,324	7351.6	14,796.0	2.013	08/27/2003	Dry, hot weather	2,478,047	7.65%
2004	2,604,068	7134.4	13,570.0	1.902	08/02/2004	Dry, hot weather	2,398,473	7.90%
2005	3,016,413	8241.6	15,660.0	1.900	06/23/2006	Dry, hot weather	2,734,948	9.33%
2006	2,765,638	7577.1	13,490.0	1.780	08/15/2006	Dry, hot weather	2,613,670	5.49%
2007	2,840,594	7782.4	12,959.0	1.665	07/07/2007	Dry, hot weather	2,753,197	3.08%
2008	2,889,535	7916.5	13,930.0	1.760	08/18/2008	Dry, hot weather	2,690,237	6.90%
2009	2,824,750	7717.9	12,460.0	1.614	07/29/2009	Dry, hot weather	2,700,894	4.38%
2010	2,666,836	7306.4	11,660.0	1.596	05/24/2010	Dry, hot weather	2,503,570	6.12%
2011	2,656,023	7276.8	**12,054.9**	1.657			2,520,300	
			3-yr. Ave.	1.657			135,723 Unaccounted for Water	5.11% 4-yr. Avg. Unacctg.
			5-yr. Ave.	1.683				
			7-yr. Ave.	1.745				
			Max Day Ratio Used	**1.658**				
			Max Hour Ratio Used	**2.425**				
			Max Hour : Max Day Ratio Used	**1.463**				

SYSTEM PEAKING FACTORS

FLOWS:		Average Gallons Per Year	Day	Hour
Test Year Annual System Pumpage		2,656,023,000	7,276,775	303,199
Maximum Day			12,064,894	502,704
Maximum Hour				735,258
Fire Flow: (Gallons per minute)	5,000 gpm			
Fire Flow: Duration (Hours)	5.0 hrs			
Fire Flow			1,500,000	300,000
Average Day + Fire Flow			8,776,775	
Average Hour on Ave Day + Fire Flow				603,199

CALCULATED RATIOS:	Ratio	Base	Extra Capacity MD	MH
Max Day Allocation	1.6580	60.31%	39.69%	
Max Hour Allocation	2.4250	41.24%		58.76%
Base-Max Day-Max Hr		41.24%	27.13%	31.63%

SPECIAL ALLOCATIONS: Mains:	Utility Financed Water Main % Alloc.	Total Inch-Ft. Water Main % Alloc.	Total Water Main O&M Exp. % Alloc.
Transmission mains	90.09%	53.80%	35.87%
Distribution mains	9.91%	46.20%	64.13%

Trans. Main	
12	50.0%
14	100.0%

Water Main O&M Expense	
100%	on feet of main
0%	on inch-feet of main

3 **Select Option**

1 **Remove CIAC main using 8.8448800 inch equivalent size main from all size mains.**

2 **Remove CIAC main using PSCW Method which removes smallest mains first.**

3 **Remove CIAC main using actual CPR cost records of watermain construction costs by size.**

DETERMINATION OF FIRE FLOW REQUIREMENTS

			Wholesale Customers		
	Municipality:	Oak Creek	Franklin	Caledonia	x
2009	League of Municipalities Estimated Population:	32,600	33,700	25,200	
1% growth/yr	Estimated Current Population:	32,927	34,038	25,453	0
	Served Population:	31,280	26,774	6,170	0
	Served as % of Est. Population:	95.0%	78.7%	24.2%	n/a
		gpm	**gpm**	**gpm**	**gpm**

1. ISO Maximum Required Flow

   Maximum Aavailable Flow

   Average Available - All Hydrants Tested

   ISO Basic Fire Flow hours @

2. Freeman's Formula:

   a) Max. Flow Reqd. = 200 gpm x ((Pop. (000)) / (5) + 10 = 3,251 3,071 2,247 -

   b) Min. Flow Reqd. = 200 gpm x (1.7 x SQRT(Pop.(000)) + .03 x Pop.(000) = 2,089 1,920 882 -

3. N.B.F.U. Formula (National Board of Fire Underwriters)

   Reqd. Fire Flow = 1020 x SQRT(Pop. (000)) x (1 - .01 x SQRT(Pop.(000))) = 5,386 5,005 2,471 -

4. Kuickling Formula

   Reqd. Fire Flow = 700 x SQRT(Pop. (000)) = 3,915 3,622 1,739 -

Average: Freeman Max, Min, NBFU, & Kuickling	**3,660**	**3,404**	**1,834**	**-**
Estimated Fire Flow Hours	**3.7**	**3.4**	**1.8**	**0.0**
Last Rate Case: Fire Flow	5,000	5,000	-	-
Hours	5.0	5.0	0.0	0.0
Present Rate Case: Fire Flow	5,000		-	-
Hours	5.0	0.0	0.0	0.0

DEVELOPMENT OF ALLOCATION PERCENTS TO CUSTOMER GROUPS

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	Customer Class:	Annual Usage Mgal	Base Cost			Maximum Day						Maximum Hour						
			Avg. Day	System % Total	Distr. % Total	MD % Avg	Max Day	Excess (6)-(2)	% of Total	System % Total	Distr. % Total	MH % Avg	Max Hr	Excess (11)-(2)	% of Total	System % Total	Distr. % Total	Storage % Total
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
Inside:	Residential	463,461	1269.8	17.45%	31.67%	191	2425.2	1155.5	18.38%	18.38%	28.28%	241	3060.1	1790.4	10.19%	13.15%	27.80%	16.88%
Inside:	Commercial	409,123	1120.9	15.40%	27.96%	172	1927.9	807.0	12.83%	12.83%	19.75%	217	2432.3	1311.4	7.46%	9.63%	20.36%	12.36%
Inside:	Industrial	434,188	1189.6	16.35%	29.67%	114	1356.1	166.5	2.65%	2.65%	4.08%	120	1427.5	237.9	1.35%	1.75%	3.69%	2.24%
Inside:	Public Auth.	20,768	56.9	0.78%	1.42%	172	97.9	41.0	0.65%	0.65%	1.00%	217	123.5	66.6	0.38%	0.49%	1.03%	0.63%
Whsle:	Franklin	1,011,233	2770.5	38.07%		167.4	4637.8	1867.3	29.70%	29.70%		292.6	8106.5	5336.0	30.37%	39.18%		0.00%
Whsle:	Caledonia	181,527	497.3	6.83%		167.4	832.5	335.2	5.33%	5.33%		292.6	1455.2	957.9	5.45%	7.03%		0.00%
5.11%	Unacctd. Water	135,723	371.8	5.11%	9.28%	211.761	787.4	415.6	6.61%	6.61%	10.17%	279.989	1041.1	669.3	3.81%	4.91%	10.39%	0.00%
	Total Usage	2,656,023	7276.8	100.00%	100.00%	166	12064.9	4788.1	76.15%	76.15%	63.29%	243	17646.2	10369.4	59.02%	76.15%	63.29%	32.12%
0.0%	**Fire Protection**	0	0.0	0.00%	0.00%		1500.0	1500.0	23.85%	23.85%	36.71%		7200.0	7200.0	40.98%	23.85%	36.71%	67.88%
	TOTAL - ALL	2,656,023	7276.8	100.00%	100.00%		13564.9	6288.1	100.00%	100.00%	100.00%		24846.2	17569.4	100.00%	100.00%	100.00%	100.00%

Retail	1,327,540	3637.1	49.98%	1.597	5807.1	1.937	7043.4			**Allocation to MH Fire Prot. Limited to smaller of actual calculated % or the MD Fire Prot. %.**
Whsle	1,192,760	3267.8	44.91%	1.674	5470.4	2.926	9561.7			
Unacctd. Water	135,723	371.8	5.11%	2.118	787.4	2.800	1041.1			
Total	2,656,023	7276.8	100.00%	1.658	12064.9	2.425	17646.2	**Max Day**	**Max Hour**	

Fire Flow Requirement:	**5,000**	**gpm**	
Duration:	**5**	**hours**	

	Max Day	**Max Hour**
Actual System Peak Demands:	**1.658**	**2.425**
Calc. Non-Coin. Peak Demands (w/o Fire Flow)	**1.658**	**2.425**
Non-Coin./Coin. = System Diversity:	**1.000**	**1.000**

	Max Day	Max Hour
System	12,064.9	17,646.2
Sum GWS Cust.	11,277.5	16,605.1
Unacctd. Water	787.4	1,041.1

	Kgal/Day		
System Average Day less Unaccounted	**7,276.8**		
System Max Day	**12,064.9**	**1.658**	
System Max Hour	**17,646.2**		**2.425**
Non-Coin./Coin. = System Diversity:		**1.000000**	**1.000000**

DEVELOPMENT OF ALLOCATION PERCENTS TO CUSTOMER GROUPS

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

		Base Cost		Extra Capacity					Customer Cost			
		Total	Distr.	Maximum Day		Maximum Hour			Billing	Equiv.	Equiv.	Fire
	Customer Class:	System	Only	System	Distr.	System	Distr.	Storage	Mtr Rdng	Meters	Services	Hyrants
		%	%	%	%	%	%	%	%	%	%	%
Inside:	Residential	17.45%	31.67%	18.38%	28.28%	13.15%	27.80%	16.88%	88.30%	59.04%	80.01%	
Inside:	Commercial	15.40%	27.96%	12.83%	19.75%	9.63%	20.36%	12.36%	10.74%	29.60%	17.31%	
Inside:	Industrial	16.35%	29.67%	2.65%	4.08%	1.75%	3.69%	2.24%	0.26%	2.99%	0.78%	
Inside:	Public Auth.	0.78%	1.42%	0.65%	1.00%	0.49%	1.03%	0.63%	0.62%	3.40%	1.38%	
Whsle:	Franklin	38.07%	0.00%	29.70%	0.00%	39.18%	0.00%	0.00%	0.05%	3.62%	0.33%	
Whsle:	Caledonia	6.83%	0.00%	5.33%	0.00%	7.03%	0.00%	0.00%	0.03%	1.36%	0.19%	
	Unacctd. Water	5.11%	9.28%	6.61%	10.17%	4.91%	10.39%	0.00%				
	Total Usage	100.00%	100.00%	76.15%	63.29%	76.15%	63.29%	32.12%	100.00%	100.00%	100.00%	0.00%
	Fire Protection	0.00%	0.00%	23.85%	36.71%	23.85%	36.71%	67.88%				100.00%
	Totals	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

ALLOCATION OF FUNCTIONAL COSTS @ COMBINED RATE OF RETURN

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	Customer Class:	Class % of Total	Gross Allocated Costs	Base Cost		Extra Capacity					Customer Cost			Fire Hyrants
				Total System	Distr. Only	Maximum Day		Maximum Hour			Billing Mtr Rdng	Equiv. Meters	Equiv. Services	
						System	Distr.	System	Distr.	Storage				
				%	%	%	%	%	%	%	%	%	%	%
ALLOCATION OF FUNCTIONAL COSTS:														
Inside:	Residential	22.09%	2,222,054	857,427	113,732	506,489	-	-	142,254	28,614	145,292	148,074	280,172	-
Inside:	Commercial	14.80%	1,488,718	756,899	100,398	353,754	-	-	104,201	20,960	17,669	74,231	60,607	-
Inside:	Industrial	10.10%	1,016,188	803,271	106,548	73,000	-	-	18,903	3,802	428	7,504	2,731	-
Inside:	Public Auth.	0.82%	82,229	38,422	5,096	17,957	-	-	5,289	1,064	1,023	8,535	4,842	-
Whsle:	Franklin	29.54%	2,971,584	2,051,893	-	908,481	-	-	-	-	74	9,912	1,223	-
Whsle:	Caledonia	5.33%	535,917	368,337	-	163,082	-	-	-	-	56	3,717	726	-
	Unacctd. Water	5.17%	519,741	251,095	33,306	182,163	-	-	53,178	-	-	-	-	-
	Total Usage	87.84%	8,836,432	5,127,344	359,080	2,204,925	-	-	323,826	54,441	164,542	251,973	350,301	-
	Fire Protection	12.16%	1,223,166	-	-	657,505	-	-	187,863	115,074	-	-	-	262,724
	Totals	100.00%	10,059,598	5,127,344	359,080	2,862,430	-	-	511,690	169,515	164,542	251,973	350,301	262,724

Total GWS costs for System-wide customers	7,332,269	5,127,344	2,204,925	-
Total Water Sales to All Customers	2,656,023			
Wholesale Water Charge w/o Fire Protection	$2.761			

ALLOCATION OF FUNCTIONAL COSTS @ RETAIL RATE OF RETURN

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	Customer Class:	Class % of Total	Gross Allocated Costs	Base Cost		Extra Capacity					Customer Cost			Fire Hyrants
				Total System	Distr. Only	Maximum Day		Maximum Hour			Billing Mtr Rdng	Equiv. Meters	Equiv. Services	
						System	Distr.	System	Distr.	Storage				
				%	%	%	%	%	%	%	%	%	%	%
ALLOCATION OF FUNCTIONAL COSTS:														
Inside:	Residential	22.82%	2,222,054	857,427	113,732	506,489	-	-	142,254	28,614	145,292	148,074	280,172	-
Inside:	Commercial	15.29%	1,488,718	756,899	100,398	353,754	-	-	104,201	20,960	17,669	74,231	60,607	-
Inside:	Industrial	10.43%	1,016,188	803,271	106,548	73,000	-	-	18,903	3,802	428	7,504	2,731	-
Inside:	Public Auth.	0.84%	82,229	38,422	5,096	17,957	-	-	5,289	1,064	1,023	8,535	4,842	-
Whsle:	Franklin	27.72%	2,699,643	1,870,835	-	818,514	-	-	-	-	74	9,073	1,147	-
Whsle:	Caledonia	5.00%	486,906	335,835	-	146,932	-	-	-	-	56	3,402	681	-
	Unacctd. Water	5.34%	519,741	251,095	33,306	182,163	-	-	53,178	-	-	-	-	-
	Total Usage	87.44%	8,515,480	4,913,784	359,080	2,098,808	-	-	323,826	54,441	164,542	250,819	350,180	-
	Fire Protection	12.56%	1,223,166	-	-	657,505	-	-	187,863	115,074	-	-	-	262,724
	Totals	100.00%	9,738,646	4,913,784	359,080	2,756,313	-	-	511,690	169,515	164,542	250,819	350,180	262,724

Total GWS costs for System-wide customers	7,012,592	4,913,784	2,098,808	-
Total Water Sales to All Customers	2,656,023			
Wholesale Water Charge w/o Fire Protection	$2.640			

ALLOCATION OF FUNCTIONAL COSTS @ WHOLESALE RATE OF RETURN

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	Customer Class:	Class % of Total	Gross Allocated Costs	Base Cost		Extra Capacity					Customer Cost			Fire Hyrants
				Total System	Distr. Only	Maximum Day		Maximum Hour			Billing Mtr Rdng	Equiv. Meters	Equiv. Services	
						System	Distr.	System	Distr.	Storage				
				%	%	%	%	%	%	%	%	%	%	%
ALLOCATION OF FUNCTIONAL COSTS:														
Inside:	Residential	22.62%	2,403,801	940,409	116,918	562,159	-	-	146,240	32,253	145,292	161,762	298,767	-
Inside:	Commercial	15.24%	1,620,136	830,152	103,210	392,637	-	-	107,120	23,626	17,669	81,092	64,630	-
Inside:	Industrial	10.41%	1,106,825	881,011	109,534	81,023	-	-	19,433	4,286	428	8,198	2,912	-
Inside:	Public Auth.	0.84%	89,458	42,140	5,239	19,931	-	-	5,438	1,199	1,023	9,323	5,163	-
Whsle:	Franklin	27.96%	2,971,584	2,051,893	-	908,481	-	-	-	-	74	9,912	1,223	-
Whsle:	Caledonia	5.04%	535,917	368,337	-	163,082	-	-	-	-	56	3,717	726	-
	Unacctd. Water	5.33%	566,488	275,396	34,239	202,185	-	-	54,668	-	-	-	-	-
	Total Usage	87.44%	9,294,208	5,389,338	369,141	2,329,498	-	-	332,899	61,364	164,542	274,005	373,422	-
	Fire Protection	12.56%	1,334,652	-	-	729,775	-	-	193,127	129,709	-	-	-	282,041
	Totals	100.00%	10,628,860	5,389,338	369,141	3,059,273	-	-	526,026	191,073	164,542	274,005	373,422	282,041

Total GWS costs for System-wide customers	7,718,836	5,389,338	2,329,498	-	
Total Water Sales to All Customers	2,656,023				
Wholesale Water Charge w/o Fire Protection	$2.906				

SUMMARY - DETERMINATION OF RATE DESIGN TARGETS - RETAIL & WHOLESALE

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Gross Allocated Costs	Less: Penalties & Misc. Revenues	Net Cost of Service	Alloc. of Unacctd. Water	Less: Pvt. Fire + Whsle PFP	Less: Public Fire Revenue	Public Fire Alloc. To Customer Class	Adjusted Cost of Service w/o Fire	Facilities Charge Revenue	Volume Charge Revenue Reqd.	Billable Water Volume	Target Average $/Unit	Achieved Average $/Unit	GWS + PFP	% Total
	$	$	$	$	$	$	$	$	$	$	$	$	$	$	
Residential	2,222,054	83,077	2,138,977	155,687			-	2,294,664	899,397	1,395,267	463,461	$3.0105	$3.1400	2,294,664	23.42%
Commercial	1,488,718	55,660	1,433,059	137,433			-	1,570,492	262,258	1,308,234	409,123	$3.1977	$3.1400	1,570,492	16.03%
Industrial	1,016,188	37,993	978,195	145,853			-	1,124,048	22,218	1,101,830	434,188	$2.5377	$2.4383	1,124,048	11.47%
Public Auth.	82,229	3,074	79,154	6,976			-	86,131	27,129	59,002	20,768	$2.8410	$3.1400	86,131	0.88%
Franklin	2,971,584	68,960	2,902,624	62,562				2,965,186	21,264	2,943,922	1,011,233	$2.9097	$2.9100	2,965,186	30.26%
Caledonia	535,917	12,437	523,481	11,230				534,711	8,028	526,683	181,527	$2.9097	$2.9100	534,711	5.46%
Total	8,316,690	261,200 (1)	8,055,490	519,741	-	-	-	8,575,232	1,240,294	7,334,938	2,520,300	$2.9103	$2.9103	8,575,232	87.52%
Unacctd. Water															
70% Alloc. To Retail	363,819		363,819							-					
30% Alloc. To System	155,922		155,922												
Fire Protection	1,223,166		1,223,166		491,447	728,887	-	2,832	2,832	-				1,223,166	12.48%
TOTAL - ALL	10,059,598	261,200	9,798,398	519,741	491,447	728,887	0	8,578,064	1,243,126	7,334,938	2,520,300	$2.9103	$2.9103	9,798,398	100.00%

(1) $193,000 Alloc. To All Customers: 460 Unmetered revenue, 465 Sales to Irrigation, 467 Interdepartmental, 471 Misc. Service Rev., 472, Rents, 473 Interdept. Rent, 474 Other Water Rev. (Excluding Return on Sewer Meters)

$68,200 Alloc. To Non-Wholesale Customers only: 470 Late Payment Chg., 474 Other Water Rev. - Return on Meters paid by Sewer Dept.

$261,200

			Method:	1	OK
Public Fire Protection-Retail (Net of Pvt. Fire Rev.)	731,719	$885,509 Current Retail PFP	**0**	No Direct Charging of PFP	
Public Fire Protection Charged to Municipality	$0		**1**	Equivalent Meter	
Public Fire Protection Allocated to Customer Groups	$0		**2**	Equivalent Service	
Public Fire Protection Collected as a Direct Charge	$731,719		**3**	Property Value / Equiv. Meter	
Annual PFP per Equiv. Meter	$58.03		**4**	Square Feet of Improvements	
Annual PFP per Equiv. Service	$75.28		**5**	Water Sold	**$0.55 /Kgal**
Include ALL Meters (1); Include only INSIDE Meters (2)	1				

ALLOCATION OF PUBLIC FIRE PROTECTION COSTS TO RETAIL & WHOLESALE GROUPS

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	Customer Class:	Class % of Total	Gross Allocated Costs	Base Cost		Extra Capacity					Customer Cost			Fire Hyrants
				Total System	Distr. Only	Maximum Day		Maximum Hour			Billing Mtr Rdng	Equiv. Meters	Equiv. Services	
						System	Distr.	System	Distr.	Storage				
				$	$	$	$	$	$	$	$	$	$	$
ALLOCATION OF PUBLIC FIRE PROTECTION COSTS:														
	Fire Protection Allocated Costs		1,223,166	0	0	657,505	0	0	187,863	115,074	0	0	0	262,724
Retail:	Oak Creek	71.86%	878,983	-	-	313,322	-	-	187,863	115,074	-	-	-	262,724
Whsle:	Franklin	21.89%	267,790	-	-	267,790	-	-	-	-	-	-	-	-
Whsle:	Caledonia	6.25%	76,393	-	-	76,393	-	-	-	-	-	-	-	-
	Fire Protection - All	100.00%	1,223,166	-	-	657,505	-	-	187,863	115,074	-	-	-	262,724

DETERMINATION OF WHOLESALE PUBLIC FIRE PROTECTION

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

		Present PFP $	Gross Allocated Costs	Calc. % Incr.	Target % Incr.	PFP Level Estimated Rates	$ Incr.	Achieved % Incr.	$ per Equiv. Resid. Cust.	100% Diff. Point	Factor
Whsle:	Franklin	85,099	**267,790**	214.68%	214.68%	267,790	182,692	214.68%	$21.21	214.68%	9.4
Whsle:	Caledonia	33,866	**76,393**	125.57%	125.57%	76,393	42,526	125.57%	$25.88	125.57%	5.5
	Total Whsle PFP	118,965	**344,183**	189.31%		344,183	225,218	189.31%		189.31%	8.3

Increase limited to larger of **3** **times overall customer increase, or**
100% **of the difference between COSS & present revenues.**

Set to Match Target	22.82%
Target Overall Increase	22.82%

ALLOCATION OF PUBLIC FIRE PROTECTION COSTS TO RETAIL & WHOLESALE GROUPS

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	Calc. Density	# Resid. Cust. Served	Served Population	Fire Flow in gpm: Freeman Maximum	Freeman Minimum	N.B.F.U.	Kuickling	Average	Fire Flow in Hours	Est. Fire Flow	(A) Fire Flow %
Oak Creek	4.0	7,812	31,280	3,251	2,089	5,386	3,915	3,660	3.7	13,543	47.65%
Franklin	4.1	6,486	26,774	3,071	1,920	5,005	3,622	3,404	3.4	11,575	40.73%
Caledonia	2.6	2,338	6,170	2,247	882	2,471	1,739	1,834	1.8	3,302	11.62%
										28,420	100.00%

	Inch-Feet Water Main	(B) In.-Ft. %	Annual Water Usage	Average Resid. Usage	# Equiv. Resid. Customers	(C) ERC %		(A) Fire Flow %	(B) In.-Ft. %	(C) ERC %	Weighted %
Oak Creek	11,426,558	50.94%	1,327,540	59.3	22,402	58.99%		47.65%	50.94%	58.99%	47.65%
Franklin	9,056,662	40.37%	1,011,233	80.1	12,625	33.24%		40.73%	40.37%	33.24%	40.73%
Caledonia	1,950,092	8.69%	181,527	61.5	2,952	7.77%		11.62%	8.69%	7.77%	11.62%
	22,433,312	100.00%	2,520,300		37,979	100.00%		100.00%	100.00%	100.00%	100.00%
							Weighting Factors	1.0	0.0	0.0	

	Base Cost: Total System	Base Cost: Distr. Only	Extra Capacity: Maximum Day System	Maximum Day Distr.	Maximum Hour System	Maximum Hour Distr.	Maximum Hour Storage	Customer Cost: Billing Mtr Rdng	Equiv. Meters	Equiv. Services	Fire Hyrants
	%	%	%	%	%	%	%	%	%	%	%
Weighted Percentages											
Oak Creek	47.65%	100.00%	47.65%	100.00%	47.65%	100.00%	100.00%				100.00%
Franklin	40.73%		40.73%		40.73%						
Caledonia	11.62%		11.62%		11.62%						
	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%	100.00%

PRIVATE FIRE REVENUE UNDER PRESENT & ESTIMATED RATES

RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

PRESENT RATES

Conn. Size	# of Conn.	Charge per Quarter	Revenue $
2	159	$12.00	7,632
3	0	$21.00	0
4	76	$39.00	11,856
6	169	$72.00	48,672
8	148	$102.00	60,384
10	12	$150.00	7,200
12	15	$192.00	11,520
14	0	$246.00	0
16	0	$300.00	0
Pvt. Fire Revenue	579		$147,264
Less: Meter Taps			0
Net Pvt. Fire Prot.			$147,264

Meter Size	Effective # Taps	Charge per Quarter	Meter Tap Deduction
5/8"	0	$21.63	0.00
3/4"	0	$21.63	0.00
1	0	$33.99	0.00
1¼	0	$50.99	0.00
1½	0	$64.89	0.00
2	0	$95.79	0.00
2½	0	$0.00	0.00
3	0	$169.95	0.00
4	0	$278.10	0.00
6	0	$556.20	0.00
8	0	$896.10	0.00
10	0	$1,328.70	0.00
Meter Tap Deduct	0		$0.00

ESTIMATED RATES

Conn. Size	# of Conn.	Charge per Quarter	Revenue $
2	159	$12.00	7,632
3	0	$21.00	0
4	76	$39.00	11,856
6	169	$72.00	48,672
8	148	$102.00	60,384
10	12	$150.00	7,200
12	15	$192.00	11,520
14	0	$246.00	0
16	0	$300.00	0
Private Fire Revenue	579		$147,264
Less: Meter Taps			0
Net Private Fire Protection			$147,264

Meter Size	Effective # Taps	Charge per Quarter	Meter Tap Deduction
5/8"	0	$12.00	0.00
3/4"	0	$21.00	0.00
1	0	$39.00	0.00
1¼	0	$72.00	0.00
1½	0	$102.00	0.00
2	0	$150.00	0.00
2½	0	$192.00	0.00
3	0	$246.00	0.00
4	0	$0.00	0.00
6	0	$0.00	0.00
8	0	$0.00	0.00
10	0	$0.00	0.00
Meter Tap Deduct	0		$0.00

GENERAL WATER SERVICE - ALL CUSTOMERS
REVENUE UNDER PROPOSED RATES
RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

		Authorized Rates		Residential		Commercial		Industrial		Public Auth.		Other		Total GWS	
				Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount
Volume Charge:															
First	6,000	$3.14	/Mgal	463,461	$1,455,268	409,123	$1,284,646	142,845	$448,533	20,768	$65,212	0	$0	1,036,197	$3,253,659
Next	18,000	$2.42	/Mgal	0	$0	0	$0	97,689	$236,407	0	$0	0	$0	97,689	$236,407
Over	24,000	$1.93	/Mgal	0	$0	0	$0	193,654	$373,752	0	$0	0	$0	193,654	$373,752
SUBTOTALS				463,461	$1,455,268	409,123	$1,284,646	434,188	$1,058,693	20,768	$65,212	0	$0	1,327,540	$3,863,818
				No. of Meters	Annual Revenues	No. of Meters	Annual Revenues	No. of Meters	Annual Revenues	No. of Meters	Annual Revenues	No. of Meters	Annual Revenues	No. of Meters	Annual Revenues
Meter Charges:															
5/8		$28.75	/Qtr.	7,795	$896,425	220	$25,300	2	$230	8	$920	0	$0	8,025	$922,875
3/4		$28.75	/Qtr.	8	$920	30	$3,450	0	$0	3	$345	0	$0	41	$4,715
1		$44.00	/Qtr.	7	$1,232	310	$54,560	4	$704	7	$1,232	0	$0	328	$57,728
1½		$83.00	/Qtr.	1	$332	166	$55,112	2	$664	12	$3,984	0	$0	181	$60,092
2		$122.00	/Qtr.	1	$488	199	$97,112	5	$2,440	16	$7,808	0	$0	221	$107,848
3		$213.00	/Qtr.	0	$0	17	$14,484	5	$4,260	4	$3,408	0	$0	26	$22,152
4		$342.00	/Qtr.	0	$0	7	$9,576	2	$2,736	3	$4,104	0	$0	12	$16,416
6		$666.00	/Qtr.	0	$0	1	$2,664	1	$2,664	2	$5,328	0	$0	4	$10,656
8		$1,065.00	/Qtr.	0	$0	0	$0	2	$8,520	0	$0	0	$0	2	$8,520
SUBTOTALS				7,812	$899,397	950	$262,258	23	$22,218	55	$27,129	0	$0	8,840	$1,211,002
Total GWS Proposed Revenue					$2,354,665		$1,546,904		$1,080,911		$92,341		$0		$5,074,820
Present Revenue					$1,932,689		$1,313,405		$890,161		$77,936		$0		$4,214,192
$ Increase					$421,975		$233,499		$190,750		$14,405		$0		$860,629
% Increase					21.83%		17.78%		21.43%		18.48%		#DIV/0!		20.42%
Adj. Cost of Service					$2,294,664		$1,570,492		$1,124,048		$86,131		$0		5,075,335
$ Over/(Under) Cost of Service					60,001		(23,588)		(43,137)		6,210		0		(515)
% Over/(Under) Cost of Service					2.61%		-1.50%		-3.84%		7.21%		#DIV/0!		-0.01%

WHOLESALE WATER CUSTOMERS
REVENUE UNDER PROPOSED RATES
RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

	$ per	Whsle #1		Whsle #2		Whsle #3		Total Whsle	
Wholesale	**Qtr.**	# Cust.	$ Rev.	# Cust.	$ Rev.	# Cust.	$ Rev.	# Cust.	$ Rev.
Franklin	$5,316	1	$21,264	0	$0	0	$0	1	21,264
Caledonia	$2,007	0	$0	1	$8,028	0	$0	1	8,028
x	$0	0	$0	0	$0	0	$0	0	0
Cust. Charge Revenue		1	21,264	1	8,028	0	0	2	29,292
Volume	**$/Unit**								
Franklin	$2.910	1,011,233	2,942,688	0	0	0	0	1,011,233	2,942,688
Caledonia	$2.910	0	0	181,527	528,244	0	0	181,527	528,244
x	$2.910	0	0	0	0	0	0	0	0
Volumetric Revenue		1,011,233	2,942,688	181,527	528,244	0	0	1,192,760	3,470,932
Total Wholesale Revenue			2,963,952		536,272		0		3,500,224
Present Revenue			2,205,522		404,582		0		2,610,104
$ Increase			758,430		131,690		0		890,119
% Increase			34.39%		32.55%		#DIV/0!		34.10%
Adj. Cost of Service			2,965,186		534,711		0		3,499,897
$ Over/(Under) Cost of Service			(1,234)		1,560		0		327
% Over/(Under) Cost of Service			-0.04%		0.29%		#DIV/0!		0.01%

DIRECT CHARGE PUBLIC FIRE PROTECTION - METER SIZE
REVENUE UNDER PROPOSED RATES
RATE STUDY USING UTILITY REVENUE REQUIREMENT AS PROPOSED

			Residential		Commercial		Industrial		Public Auth.		Other		Total	
			No. of Meters	Annual Revenues	No. of Meters	Annual Revenues	No. of Meters	Annual Revenues	No. of Meters	Annual Revenues	No. of Meters	Annual Revenues	No. of Meters	Annual Revenues
Direct PFP Charge - Inside														
5/8	$14.40	/Qtr.	7,795	$448,992	220	$12,672	2	$115	8	$461	0	$0	8,025	$462,240
3/4	$14.40	/Qtr.	8	$461	30	$1,728	0	$0	3	$173	0	$0	41	$2,362
1	$36.30	/Qtr.	7	$1,016	310	$45,012	4	$581	7	$1,016	0	$0	328	$47,626
1½	$72.00	/Qtr.	1	$288	166	$47,808	2	$576	12	$3,456	0	$0	181	$52,128
2	$117.00	/Qtr.	1	$468	199	$93,132	5	$2,340	16	$7,488	0	$0	221	$103,428
3	$219.00	/Qtr.	0	$0	17	$14,892	5	$4,380	4	$3,504	0	$0	26	$22,776
4	$363.00	/Qtr.	0	$0	7	$10,164	2	$2,904	3	$4,356	0	$0	12	$17,424
6	$726.00	/Qtr.	0	$0	1	$2,904	1	$2,904	2	$5,808	0	$0	4	$11,616
8	$1,161.00	/Qtr.	0	$0	0	$0	2	$9,288	0	$0	0	$0	2	$9,288
TOTAL			7,812	$451,225	950	$228,312	23	$23,088	55	$26,262	0	$0	8,840	$728,887
Direct PFP Charge - Outside														
TOTAL			0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
TOTAL DIRECT CHARGE - PFP				$451,225		$228,312		$23,088		$26,262		$0		$728,887
Total Cost-of-Service														$731,719
Amount Over / (Under)														($2,832)