

City of Grand Ledge

Water Rate Report

5/2/2016



Prepared By:

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BACKGROUND INFORMATION STARTING SHEET

Name of Community :	GRAND LEDGE WATER
Population Served :	7803
BUDGET USED FOR YEAR OF	2016
Current Rate Structure	
Are bills based on 1,000 gallons units or 100 cubic feet units?	1,000
Number of Residential Customer Invoices per Year	4
What are the dates of the Fiscal Year	July 1st
Year of Last Rate Increase	JULY 2015 - 16% INCREASE
List the names of the different Entities Served - Originating Entity	GRAND LEDGE WATER QUARTERLY <10
2nd Entity	GRAND LEDGE WATER MONTHLY
3rd Entity	GRAND LEDGE WATER > 10K
4th Entity	ONEIDA TWP QUARTERLY < 10K
5th Entity	ONEIDA TWP > 10K
6th Entity	

MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

2016

GRAND LEDGE WATER QU

RATE STRUCTURE

CURRENT RATE STRUCTURE

ARE ALL RESIDENTIAL CUSTOMERS METERED	YES
HOW MANY RESIDENTIAL CUSTOMERS ARE NOT METERED	0'
ARE ANY GALLONS INCLUDED WITH THE RESIDENTIAL "BASE RATE"?	NO
ARE COMMERCIAL & INDUSTRIAL CUSTOMERS METERED	YES
ARE ANY GALLONS ARE INCLUDED WITH THE COMMERCIAL & INDUSTRIAL "BASE RATE"	NO
"BASE RATES" OR "READY TO SERVE" CHARGES ARE BASED ON WHAT	NO BASE RATE
DEBT CHARGE BASED ON REU' - BASED ON METER SIZE	
ARE ANY RATES BASED ON RESIDENTIAL EQUIVALENT UNITS? (REU'S)	
NOTHING ON REU'S - METER SIZE ONLY	
HOW ARE MULTI-UNIT DWELLINGS BILLED? BY METER SIZE? OR # OF UNITS? OR?	
NOTHING ON REU'S - METER SIZE ONLY	
DO ANY CUSTOMERS GET A DISCOUNT? LIKE A SENIOR CITIZEN DISCOUNT? EXPLAIN	10,000 & UNDER GALLONS AT LOWER RATE
Is there a Declining / Inclining Rate adjustment, based on gallons used?	JUST 2 RATE <10,000 & >10,000
Do you have an annual cost of living increase built into the current rates / ordinance?	NO
DO ANY CUSTOMERS OR GROUP OF CUSTOMERS GET A SURCHARGE? IF YES EXPLAIN	TWP IS CHARGED DOUBLE
ARE ANY CUSTOMERS BILLED UNIQUELY, LIKE CHURCH'S, SCHOOLS, SENIORS ETC	NO
Are customers allowed irrigation only meters?	YES
Is there a "Ready to Serve Fee" for irrigation meters	NO & NO DEBT CHARGE ONLY USAGE
ALL IRRIGATION USAGE IS CHARGED AT THE HIGHER RATE OVER 10K REGARDLESS OF USAGE	
Do you serve any other entities - Such as townships etc?	ONEIDA TWP
Are townships charged a different or Higher rate than community customers?	TWICE THE CITY RATE
HOW ARE THE TOWNSHIPS DIFFERENT RATES CALCULATED?	TWICE THE CITY RATE FOR METERS
TWICE THE CITY RATE FOR READY TO SERVE & PER THOUSAND GALLONS.	
IS THERE A SIGNED CONTRACT WITH OTHER ENTITIES SECURING THIS HIGHER RATE	YES
IS THERE A DIFFERENT FEE FOR COMMERCIAL VS INDUSTRIAL VS RESIDENTIAL	NO
Is there still a monthly fee if a customers water is shut off at the curb?	???
What is the Turn on / Turn off fee for water customers	\$50 CHARGE FOR ON & \$50 OFF REGULAR HRS
Is there a Hydrant Rental Fee	NO
Are there any other major sources of income to help offset the rates	CELL PHONES ON WATER TOWER
Is there a charge for "Fire Service Lines"	NO

GRAND LEDGE WATER CURRENT RATE CHARGES													GRAND LEDGE WATER MONTHLY													GRAND LEDGE WATER OVER 10K													ONEIDA TWP QUARTERLY < 10K													ONEIDA TWP > 10K													BASE RATE				
RATE CLASS 1													RATE CLASS 2													RATE CLASS 3													RATE CLASS 4													RATE CLASS 5																	
GRAND LEDGE WATER QUARTERLY <10													GRAND LEDGE WATER MONTHLY													GRAND LEDGE WATER OVER 10K													ONEIDA TWP QUARTERLY < 10K													ONEIDA TWP > 10K																	
Customers Are Invoiced QUARTERLY PER													THESE CUSTOMERS ARE INVOICED ON A MONTHLY BASIS.													THESE ARE GALLONS OF WATER OVER 3,333 GALLONS PER MONTH OR 10,000 GALLONS PER QUARTER.													ALL OF THE ONEIDA TWP CUSTOMERS ARE LISTED HERE - THEY ARE ALL INVOICED ON A QUARTERLY BASIS - AND ALL OF THE WATER INVOICED UNDER 10K GALLONS PER QUARTER - TOWNSHIP CUSTOMERS ARE INVOICED AT TWICE THE CITY RATE FOR BOTH READY TO SERVE AND PER UNIT OF WATER.													THIS IS JUST THE GALLONS OF WATER INVOICED OVER 10K GALLONS PER QUARTER - ALL OF THE CUSTOMERS ARE LISTED UNDER RATE CLASS 4																	
TYPE OF WATER UNITS	1,000 GALLONS	UNDER 10,000 GALLONS PER QUARTER DOES NOT INCLUDE SPRINKLER ACCOUNTS											TYPE OF WATER UNITS	1,000 GALLONS	Ratio Entry # 2 vs. 1												TYPE OF WATER UNITS	1,000 GALLONS	Ratio Entry # 3 vs. 1												TYPE OF WATER UNITS	1,000 GALLONS	Ratio Entry # 4 vs. 1												TYPE OF WATER UNITS	1,000 GALLONS	Ratio Entry # 5 vs. 1												
COST PER WATER UNIT	\$3.79												COST PER WATER UNIT	\$3.79	1.00												COST PER WATER UNIT	\$5.14	1.36												COST PER WATER UNIT	\$7.58	2.00												COST PER WATER UNIT	\$10.28	2.71												
INVOICES PER YEAR	4												INVOICES PER YEAR	12													INVOICES PER YEAR	4													INVOICES PER YEAR	4													INVOICES PER YEAR	4													
METER SIZE - INCHES	CURRENT 'BASE RATE' CHARGE	NUMBER OF METERS	INVOICE FREQUENCY	ANNUAL INCOME	METER SIZE - INCHES	CURRENT 'BASE RATE' CHARGE	Ratio Entry # 2 vs. 1	NUMBER OF METERS	INVOICE FREQUENCY	ANNUAL INCOME	METER SIZE - INCHES	CURRENT 'BASE RATE' CHARGE	Ratio Entry # 3 vs. 1	NUMBER OF METERS	INVOICE FREQUENCY	ANNUAL INCOME	METER SIZE - INCHES	CURRENT 'BASE RATE' CHARGE	Ratio Entry # 4 vs. 1	NUMBER OF METERS	INVOICE FREQUENCY	ANNUAL INCOME	METER SIZE - INCHES	CURRENT 'BASE RATE' CHARGE	Ratio Entry # 5 vs. 1	NUMBER OF METERS	INVOICE FREQUENCY	ANNUAL INCOME	METER SIZE - INCHES	CURRENT 'BASE RATE' CHARGE	Ratio Entry # 5 vs. 1	NUMBER OF METERS	INVOICE FREQUENCY	ANNUAL INCOME	CURRENT ANNUAL INCOME																																		
3/4	\$21.98	2709.0	4	\$238,175	3/4	\$7.33	0.33	5	12	\$440	3/4		0.00				3/4	\$43.96	2.00	365	4	\$64,182	3/4		0.00									0	\$0	\$302,796																																	
1	\$54.95	31.0	4	\$6,814	1	\$18.32		5	12	\$1,099	1						1	\$109.90		15	4	\$6,594	1											0	\$0	\$14,507																																	
1.5	\$109.90	16	4	\$7,034	1.5	\$36.63		11	12	\$4,836	1.5						1.5	\$219.80		4	4	\$0	1.5										0	\$0	\$11,869																																		
2	\$175.84	16	4	\$11,254	2	\$58.61		26	12	\$18,287	2						2	\$351.68		2	4	\$2,813	2										0	\$0	\$32,355																																		
3	\$351.68	1	4	\$1,407	3	\$117.23		5	12	\$7,034	3						3	\$703.36			4	\$0	3										0	\$0	\$8,440																																		
4	\$549.50		4	\$0	4	\$183.17		3	12	\$6,594	4						4	\$1,099.00			4	\$0	4										0	\$0	\$6,594																																		
6	\$1,099.00		4	\$0	6	\$366.33		1	12	\$4,396	6						6	\$2,198.00			4	\$0	6										0	\$0	\$4,396																																		
TOTALS		2773		\$264,683				56		\$42,685				0		\$0				382		\$73,589									0.0		\$0	\$380,957																																			

GRAND LEDGE WATER QUARTERLY <10					
CONCLUSION OF ANALYSIS					
COST PER	CURRENT RATES		CALCULATED RATES		DIFFERENCE
1,000 GAL.	\$3.79		\$4.60		\$0.81
BASE RATE / READY TO SERVE CHARGE PER QUARTER					
METER SIZE - INCHES	CURRENT RATES		CALCULATED RATES		DIFFERENCE
"3/4	\$21.98		\$34.91		\$12.93
1	\$54.95		\$87.27		\$32.32
1.5	\$109.90		\$174.55		\$64.65
2	\$175.84		\$279.28		\$103.44
3	\$351.68		\$558.56		\$206.88
4	\$549.50		\$872.75		\$323.25
6	\$1,099.00		\$1,745.49		\$646.49

The above rates are based on an input budget of \$1,931,182
The above rates are based on invoicing the following gallons of water / sewer 203,481,983
The above rates are based on the following number of customers 3,211
The above rates are based on the following number of Residential Equivalent Units (REU's) 17,332

If all numbers listed above stay true the new calculated rates will generate the input budget "exactly". Not a penny more or a penny less.

This Rate Analysis uses "Full Cost Pricing" to determine the user fees.

The above table shows the Current Rate, the new Calculated Rate, and the difference between the current and new rate changes.

Full Cost Pricing Is:

Maintaining your system's financial stability by ensuring a sufficient revenue stream.

Collect and reserve the funds needed to cover the costs of future asset rehabilitation and compliance with future regulations, among other things.

Plan ahead for reasonable, gradual rate increases when necessary.

Deliver a fair priced, high-quality drinking water to your customers now and in the future.

NOTE:

The above CALCULATED RATES will generate only enough to meet the current budge input into the rate analysis program. In order to charge a lesser amount, the budget must first be reduced.

MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

CALCULATED RESULTS					2016
GRAND LEDGE WATER QUARTERLY <10	ANNUAL BUDGET	BASE FIXED	COST PER 3/4" METER	CONSUMPTION PORTION	COST / UNIT OF WATER
LABOR & BENEFITS	\$412,291	\$32,567	\$1.88	\$379,724	\$1.42
OPERATION & MAINTENANCE EXPENSES	\$566,583	\$39,094	\$2.26	\$527,489	\$1.98
LOANS, BONDS, INTEREST, ANNUAL PAYMENT	\$345,000	\$345,000	\$19.91	\$0	\$0.00
ASSET REPLACEMENT AND REHABILITATION	\$115,112	\$14,447	\$0.83	\$100,665	\$0.38
CAPITAL IMPROVEMENTS + \$75,000 + \$112,700 Jones St	\$492,197	\$223,950	\$12.92	\$268,247	\$1.01
		\$0	\$0.00	\$0	\$0.00
TOTALS	\$1,931,182	\$655,057	\$37.79	\$1,276,125	\$4.78
		34%		66%	
NON OPERATING INCOME REDUCTION			2.88		0.19
CALCULATED RATE - FOR 3/4" METER / REU PER QUARTER			\$ 34.91	1,000 GAL.	\$ 4.60
TOTAL ANNUAL <u>EQUIVALENT</u> REU'S 17,332		CURRENT RATES	\$21.98		\$3.79
ANTICIPATED WATER / SEWER SOLD 203,481,983		INCREASE OF	\$12.93		\$0.81
RESERVE PORTION OF BUDGET 31%		UNDER 10,000 GALLONS	\$11.64		\$4.60
INVOICES PER YEAR 4		EVERY MILLION GALLONS GENERATES REVENUE OF			\$4,597
DOES COST PER "UNIT / WATER" INCLUDE INCLINING OR DECLINING RATES?	NO				
ARE ANY GALLONS INCLUDED WITH THIS CALCULATED BASE RATE ?	NO				
IS BASE RATE PER REU, - OR PER METER SIZE?	METER SIZE	\$1.00 INCREASE GENERATES	\$17,332		\$203,482

INCOME GENERATED - BASED ON NEW RATES

GRAND LEDGE WATER						
	GRAND LEDGE WATER QUARTERLY <10	GRAND LEDGE WATER MONTHLY	GRAND LEDGE WATER OVER 10K	ONEIDA TWP QUARTERLY < 10K	ONEIDA TWP > 10K	REVENUE
	New Cost per Unit of Water Sold					NEW RATES
PER 1,000 GAL.	\$4.60	\$4.60	\$6.23	\$9.19	\$12.47	
UNITS Sold	84,508	0	97,012	12,492	9,469	203,482
Income	\$388,450	\$0	\$604,768	\$114,845	\$118,062	\$1,226,125
NON SALES INCOME						\$50,000
WATER SALES & NON SALES INCOME						\$1,276,125
METER SIZE	BASE RATE PER QUARTER					
"3/4	\$34.91	\$11.64	\$0.00	\$69.82	\$0.00	
<i>INCOME</i>	\$378,282.95	\$698.20	\$0.00	\$101,936.71	\$0.00	\$480,918
1	\$87.27	\$29.09	\$0.00	\$174.55	\$0.00	
<i>INCOME</i>	\$10,822.05	\$1,745.49	\$0.00	\$10,472.95	\$0.00	\$23,040
1.5	\$174.55	\$58.18	\$0.00	\$349.10	\$0.00	
<i>INCOME</i>	\$11,171.15	\$7,680.16	\$0.00	\$0.00	\$0.00	\$18,851
2	\$279.28	\$93.09	\$0.00	\$558.56	\$0.00	
<i>INCOME</i>	\$17,873.83	\$29,044.98	\$0.00	\$4,468.46	\$0.00	\$51,387
3	\$558.56	\$186.19	\$0.00	\$1,117.11	\$0.00	
<i>INCOME</i>	\$2,234.23	\$11,171.15	\$0.00	\$0.00	\$0.00	\$13,405
4	\$872.75	\$290.92	\$0.00	\$1,745.49	\$0.00	
<i>INCOME</i>	\$0.00	\$10,472.95	\$0.00	\$0.00	\$0.00	\$10,473
6	\$1,745.49	\$581.83	\$0.00	\$3,490.98	\$0.00	
<i>INCOME</i>	\$0.00	\$6,981.97	\$0.00	\$0.00	\$0.00	\$6,982
Total Fixed Income						\$605,057
NON SALES INCOME						\$50,000
FIXED & NON SALES INCOME						\$655,057
TOTAL Combined Customer Income						\$1,931,182
Total Income						\$1,931,182
Budget						\$1,931,182
Difference						\$0

MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

CALCULATED RESULTS						2016
GRAND LEDGE WATER QUARTERLY	ANNUAL BUDGET	PERCENT BASE RATE	BASE FIXED	COST PER 3/4" METER	CONSUMPTION PORTION	COST / UNIT OF WATER
LABOR & BENEFITS	\$412,291	8%	\$32,567	\$1.88	\$379,724	\$1.42
OPERATION & MAINTENANCE EXPENSES	\$566,583	7%	\$39,094	\$2.26	\$527,489	\$1.98
LOANS, BONDS, INTEREST, ANNUAL PAYMENT	\$345,000	100%	\$345,000	\$19.91	\$0	\$0.00
		0%	\$0	\$0.00	\$0	\$0.00
ASSET REPLACEMENT AND REHABILITATION	\$115,112	12%	\$13,813	\$0.80	\$101,298	\$0.38
CAPITAL IMPROVEMENTS	\$263,097	0%	\$0	\$0.00	\$263,097	\$0.99
CONTINGENCY	\$41,400	90%	\$37,260	\$2.15	\$4,140	\$0.02
EXTRA CIP	\$50,000	100%	\$50,000	\$2.88	\$0	\$0.00
TOTALS	\$1,793,482		\$517,734	\$29.87	\$1,275,748	\$4.78
CURRENT REVENUE	\$0		29%		71%	
NON OPERATING INCOME REDUCTION				2.88		0.19
CALCULATED RATE - FOR 3/4" METER / REU PER QUARTER				\$ 26.99	1,000 GAL.	\$ 4.60
TOTAL ANNUAL <u>EQUIVALENT</u> REU'S 17,332			CURRENT RATES	\$21.98		\$3.79
ANTICIPATED WATER / SEWER SOLD 203,481,983			INCREASE OF	\$5.01		\$0.81
RESERVE PORTION OF BUDGET 26%			MONTHLY UNDER 10,000 GALLONS	\$11.64		\$4.60
			NON METERED	\$34.91		
INVOICES PER YEAR 4			EVERY MILLION GALLONS GENERATES REVENUE OF			\$4,595
DOES COST PER "UNIT / WATER" INCLUDE INCLINING OR DECLINING RATES?	NO					
ARE ANY GALLONS INCLUDED WITH THIS CALCULATED BASE RATE ?	NO					
IS BASE RATE PER REU, - OR PER METER SIZE?	METER SIZE		\$1.00 INCREASE GENERATES	\$17,332		\$203,482

	CITY OF GRAND LEDGE			ONEIDA TOWNSHIP	
	WATER QUARTERLY UNDER 10,000 GALLONS	MONTHLY UNDER 10,000 GALLONS	WATER OVER 10,000 GALLONS	ONEIDA TWP QUARTERLY UNDER 10,000 GALLONS	ONEIDA TWP OVER 10,000 GALLONS
PER 1,000 GAL.	\$4.60	\$4.60	\$6.23	\$9.19	\$12.47
METER SIZE	BASE RATE PER QUARTER	BASE RATE PER MONTH		BASE RATE PER QUARTER	
"3/4	\$34.91	\$11.64		\$69.82	
1	\$87.27	\$29.09		\$174.55	
1.5	\$174.55	\$58.18		\$349.10	
2	\$279.28	\$93.09		\$558.56	
3	\$558.56	\$186.19		\$1,117.11	
4	\$872.75	\$290.92		\$1,745.49	

These are the rates calculated for each meter size for each entity served. Also for the cost per unit of water sold for each entity.

MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

2016	RATE CLASS 1		RATE CLASS 2		RATE CLASS 4				
	GRAND LEDGE WATER QUARTERLY <10		GRAND LEDGE WATER MONTHLY		ONEIDA TWP QUARTERLY < 10K				
METER SIZE - INCHES	NUMBER OF METERS	INVOICE FREQUENCY	NUMBER OF METERS	INVOICE FREQUENCY	NUMBER OF METERS	INVOICE FREQUENCY	CUSTOMERS ACTUAL	CALCULATED METER EQUIVALENT	ANNUAL EQUIVALENT METERS
"3/4	2709	4	5	12	365	4	3079	1.00	13,776
1	31	4	5	12	15	4	51	2.50	660
1.25	0	4	0	12	0	4	0	0.00	
1.5	16	4	11	12	0	4	27	5.00	540
2	16	4	26	12	2	4	44	8.00	1,472
3	1	4	5	12	0	4	6	16.00	384
4	0	4	3	12	0	4	3	25.00	300
6	0	4	1	12	0	4	1	50.00	200
TOTAL	2773		56		382		3211		
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> The table above list the number of water meters being invoiced for each size water meter for each entity being served. </div>							TOTAL <u>EQUIVALENT</u> ANNUAL REU'S		17,332
							PERCENT REDUCTION		0.00%
							REU REDUCTION PER BILLING CYCLE		0.0
							ANNUAL <u>EQUIVALENT</u> REU'S USED FOR RATE EVALUATION		17,332

GRAND LEDGE WATER QL 2016			UNITS OF WATER INVOICED TO CUSTOMERS			
USAGE REPORTED IN	GALLONS					
USAGE REPORTED IN	FISCAL YEAR	2012/2013'	2013/2014	2014/2015'	MIN. YEAR	
					UNITS USED IN RATE EVALUATION	
GRAND LEDGE WATER QUARTERLY <10K	88,955,764	91,302,868	90,368,377		88,955,764	84,507,976
GRAND LEDGE WATER OVER 10K	139,216,307	103,938,959	102,118,224		102,118,224	97,012,313
ONEIDA TWP QUARTERLY < 10K	13,273,800	13,149,873	13,223,307		13,149,873	12,492,379
ONEIDA TWP > 10K	14,373,600	10,311,222	9,967,700		9,967,700	9,469,315
TOTALS	255,819,471	218,702,922	215,677,608		214,191,561	203,481,983
0.986167016	PERCENT OFF MINIMUM YEAR					5%
0.843085193	GALLONS OF REDUCTION					10,709,578
	GALLONS USED FOR EVALUATION					203,481,983

WATER IS SOLD AT A LOWER RATE FOR THE FIRST 10,000 GALLONS PER QUARTER - OR 3,333 GALLONS FOR THOSE WHO ARE INVOICED ON A MONTHLY BASIS.

ALL IRRIGATION WATER IS INVOICED AT THE HIGHER RATE OVER 10K REGARDLESS OF VOLUME.

THE TOWNSHIP IS CHARGED TWICE THE CITY RATE PER UNIT OF WATER SOLD.

THE GALLONS LISTED ABOVE DO NOT INCLUDE ANY WATER NOT INVOICED FOR WINTER "LET RUNS"

This table shows the gallons of water invoiced to customers. The City is showing *decrease* in usage over the past three years. For purposes of this evaluation we anticipated a reduction in usage of 5%. Rate evaluations must be based on a worst case scenario. Taking into account factors that could influence the amount of water sold or sewage invoiced, (which is based on water usage) These factors include;

A wet rainy summer will result in less outdoor activities and lawn sprinkling

Technology alone will account for a reduction in use per person, things like water efficient appliances, washing machines etc. and water efficient shower heads, toilets etc. will naturally reduce the water use per customer.

Loss of a major water user because of things like a fire or a business that chooses to relocate into another community, or just closes its doors can have an impact on gallons of water/sewer sold.

GRAND LEDGE WATER QUAR 2016				UNITS OF WATER INVOICED TO CUSTOMERS		
USAGE REPORTED IN	GALLONS					
USAGE REPORTED IN	FISCAL YEAR					
	2012/2013'	2013/2014	2014/2015'	3 YR AVERAGE	MAX. YEAR	MIN. YEAR
WATER & SEWER CUSTOMERS UNDER 10,000	88,772,564	91,115,068	90,217,777	90,035,136	91,115,068	88,772,564
WATER ONLY UNDER 10,000	183,200	187,800	150,600	173,867	187,800	150,600
TOTAL GALLONS UNDER 10,000	88,955,764	91,302,868	90,368,377	90,209,003	91,302,868	88,955,764
WATER OVER 10,000	125,211,807	94,604,100	94,721,800	104,845,902	125,211,807	94,604,100
WATER ONLY OVER 10,000	53,100	47,900	58,800	53,267	58,800	47,900
IRRIGATION ONLY OVER 10,000	13,951,400	9,286,959	7,337,624	10,191,994	13,951,400	7,337,624
TOTAL GALLONS OVER 10,000	139,216,307	103,938,959	102,118,224	115,091,163	139,216,307	102,118,224
RATE PER UNIT	\$4.12	\$4.24	\$4.42			
INCOME OVER 10,000	\$573,571	\$440,701	\$451,363	488,545	573,571	440,701
\$ REVENUE DIFFERENCE - OVER 10K		(\$132,870)	(\$122,209)			
COMBINED WATER INVOICED GALLONS	228,172,071	195,241,827	192,486,601	205,300,166	228,172,071	192,486,601
TOWNSHIP				3 YR AVERAGE	MAX. YEAR	MIN. YEAR
WATER & SEWER <10K	12,356,600	12,200,473	12,309,007	12,288,693	12,356,600	12,200,473
WATER ONLY <10K	917,200	949,400	914,300	926,967	949,400	914,300
TOTAL GALLONS <10K	13,273,800	13,149,873	13,223,307	13,215,660	13,273,800	13,149,873
WATER & SEWER >10K	9,422,500	7,615,500	7,989,600	8,342,533	9,422,500	7,615,500
WATER ONLY >10K	684,000	804,000	629,400	705,800	804,000	629,400
IRRIGATION ONLY CHARGED >10K	4,267,100	1,891,722	1,348,700	2,502,507	4,267,100	1,348,700
TOTAL GALLONS >10K	14,373,600	10,311,222	9,967,700	11,550,841	14,373,600	9,967,700
RATE PER UNIT	\$8.24	\$8.48	\$8.84			
INCOME - OVER 10K	\$118,438	\$87,439	\$88,114	97,997	118,438	87,439
\$ REVENUE DIFFERENCE		(\$30,999)	(\$30,324)			
COMBINED WATER INVOICED GALLONS	27,647,400	23,461,095	23,191,007	24,766,501	27,647,400	23,191,007
CITY & TWP GALLONS INVOICED	255,819,471	218,702,922	215,677,608	230,066,667	255,819,471	215,677,608
\$\$ REVENUE DIFFERENCE >10K		(\$163,869)	(\$152,533)			

GRAND LEDGE WATER QUAR' 2016				UNITS OF WATER INVOICED TO CUSTOMERS		
USAGE REPORTED IN	GALLONS					
USAGE REPORTED IN	FISCAL YEAR					
	2012/2013'	2013/2014	2014/2015'	3 YR AVERAGE	MAX. YEAR	MIN. YEAR
TOTAL GALLONS UNDER 10,000	88,955,764	91,302,868	90,368,377	90,209,003	91,302,868	88,955,764
TOTAL GALLONS OVER 10,000	139,216,307	103,938,959	102,118,224	115,091,163	139,216,307	102,118,224
RATE PER UNIT	\$4.12	\$4.24	\$4.42			
INCOME OVER 10,000	\$573,571	\$440,701	\$451,363	488,545	573,571	440,701
\$ REVENUE DIFFERENCE - OVER 10K		(\$132,870)	(\$122,209)			
COMBINED WATER INVOICED GALLONS	228,172,071	195,241,827	192,486,601	205,300,166	228,172,071	192,486,601
TOWNSHIP				3 YR AVERAGE	MAX. YEAR	MIN. YEAR
TOTAL GALLONS UNDER 10,000	13,273,800	13,149,873	13,223,307	13,215,660	13,273,800	13,149,873
TOTAL GALLONS OVER 10,000	14,373,600	10,311,222	9,967,700	11,550,841	14,373,600	9,967,700
RATE PER UNIT	\$8.24	\$8.48	\$8.84			
INCOME - OVER 10,000	\$118,438	\$87,439	\$88,114	97,997	118,438	87,439
\$ REVENUE DIFFERENCE		(\$30,999)	(\$30,324)			
COMBINED WATER INVOICED GALLONS	27,647,400	23,461,095	23,191,007	24,766,501	27,647,400	23,191,007
	2012/2013'	2013/2014	2014/2015'			
GALLONS INVOICED	255,819,471	218,702,922	215,677,608	230,066,667	255,819,471	215,677,608
DIFFERENCE IN REVENUE		(\$163,869)	(\$152,533)			

MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM				
GRAND LEDGE WATER QUARTERLY <10				
NON-SALES INCOME				
NON-SALES INCOME	2016/2017'	2012/2013	2013/2014'	2014/2015'
INSURANCE DIVIDENDS	\$ 8,158			\$ 8,157
REIMBURSEMENT EQUIPMENT RENTAL	\$ 14,975	\$ 16,037	\$ 11,875	\$ 16,983
REIMBUERSEMENT OPERATING SUPP	\$ 1,075			\$ 1,910
WATER TAP FEES	\$ 7,500	\$ 14,722	\$ 8,926	\$ 2,415
TOWER RENTAL	\$ 34,725	\$ 45,960	\$ 45,904	\$ 50,651
LOSING A CONTRACT ON TOWER				
PENALTIES	\$ 46,650	\$ 46,551	\$ 48,481	\$ 44,819
OTHER MISC REVENUES	\$ 5,050			
OPERATIONAL REVENUES	\$ 5,675	\$ 11,737	\$ 11,127	
TOTAL INCOME (NON SALES)	\$ 123,808	\$ 135,007	\$ 126,313	\$ 124,935
AVERAGE NON SALES INCOME				\$ 127,515.75
Portion of (Non Sales) Revenue <u>Guaranteed</u> :				\$ 100,000
Percent Applied Towards Fixed Rate - PERCENT applied per REU				50%

This is income from sources other than the direct sale of water and or sewage and the quarterly billings. The penalties income will be reapplied to the water budget to help offset the water rates.

TOTAL COMBINED <u>CUR</u> WATER UNITS = 1,000							GRAND LEDGE WATER		
FISCAL YEAR 2014/2015' NVOICES PER YEAR = 4									
CURRENT METER / BASE RATE INCOME									
		GRAND LEDGE WATER QUARTERLY <10	GRAND LEDGE WATER MONTHLY	GRAND LEDGE WATER OVER 10K	ONEIDA TWP QUARTERLY < 10K	ONEIDA TWP > 10K			
METER SIZE - INCHES	CURRENT RATES	ANNUAL INCOME	ANNUAL INCOME	ANNUAL INCOME	ANNUAL INCOME	ANNUAL INCOME	INCOME	% INCOME	% TOTAL INCOME
"3/4	\$21.98	238,175	\$440	\$0	\$64,182	\$0	\$302,796	79%	21%
1	\$54.95	6,814	\$1,099	\$0	\$6,594	\$0	\$14,507	4%	1%
1.25	\$0.00	0	\$0	\$0	\$0	\$0	\$0	0%	0%
1.5	\$109.90	7,034	\$4,836	\$0	\$0	\$0	\$11,869	3%	1%
2	\$175.84	11,254	\$18,287	\$0	\$2,813	\$0	\$32,355	8%	2%
3	\$351.68	1,407	\$7,034	\$0	\$0	\$0	\$8,440	2%	1%
4	\$549.50	0	\$6,594	\$0	\$0	\$0	\$6,594	2%	0%
6	\$1,099.00	0	\$4,396	\$0	\$0	\$0	\$4,396	1%	0%
BASE RATE INCOME		\$264,683	\$42,685	\$0	\$73,589	\$0	\$380,957		26%
CURRENT VOLUME SALES INCOME									
WATER QUARTERLY <10		GRAND LEDGE WATER MONTHLY	GRAND LEDGE WATER OVER 10K	ONEIDA TWP QUARTERLY < 10K	ONEIDA TWP > 10K	TOTALS			
ALLONS / CUFT SOLD	90,368,377	0	102,118,224	13,223,307	9,967,700	215,677,608			
COST PER UNIT	\$3.79	\$3.79	\$5.14	\$7.58	\$10.28		% INCOME		
WATER SALES INCOME		\$342,496	\$0	\$524,888	\$100,233	\$102,468	\$1,070,084	74%	
TOTAL METER SALES INCOME		\$380,957							
TOTAL VOLUME SALES INCOME		\$1,070,084							
INCOME CUSTOMER SALES		\$1,451,042							
NON SALES REVENUE		\$124,935							
TOTAL INCOME ALL SOURCES		\$1,575,977							
NEW RATE BUDGET		\$1,931,182							
SCHEDULED PROFIT / LOSS		(\$355,206)							
							PERCENT OF INCOME		
							BASE RATE	VOLUME SALES	
							26%	74%	

MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

LABOR & BENEFITS			
GRAND LEDGE WATER QUARTERLY <10			
2016			
	PROPOSED	ACTUAL	ACTUAL
LABOR & BENEFITS - FIELD / MAINTENANCE	2016/2017'	2014/2015'	2013/2014'
PUMPING			
SALARIES / WAGES	\$ 12,568	\$ 13,180	\$ 15,627
OVERTIME	\$ 946	\$ 1,070	\$ 1,171
FRINGE BENE	\$ 6,054	\$ 6,539	\$ 7,659
WATER TREATMENT			
SALARIES / WAGES	\$ 12,464	\$ 6,670	\$ 6,691
OVERTIME	\$ 946	\$ 616	\$ 163
FRINGE BENE	\$ 6,008	\$ 4,697	\$ 3,353
TRANSMISSION & DIST			
SALARIES / WAGES	\$ 153,903	\$ 142,266	\$ 110,321
OVERTIME	\$ 21,516	\$ 26,042	\$ 24,337
FRINGE BENEFITS	\$ 78,588	\$ 77,156	\$ 61,823
GENERAL WATER EXP			
SALARIES / WAGES	\$ 73,595	\$ 49,956	\$ 54,326
OVERTIME	\$ 905	\$ 307	\$ 210
FRINGE BENE	\$ 33,376	\$ 23,269	\$ 25,153
POSTRETIREMENT HEALTH CARE	\$ 11,422		
SUB TOTAL MAINTENANCE & ADMINISTRATION	\$412,291	\$351,768	\$310,834
Cost of Inflation Increase	0.00%		
TOTAL LABOR & BENEFITS	\$412,291		
EMPLOYEES MAKING A LIVABLE WAGE AND RECEIVING INCREASES ANNUA			

MICHIGAN RURAL WATER ASSOCIATION RATE
EVALUATION PROGRAM

OPERATION & MAINTENANCE EXPENSES			
2016			
GRAND LEDGE WATER QUARTERLY <10 SYSTEM EXPENSES		PROPOSED 2016/2017'	2014/2015'
MAINTENANCE EXPENSES			2013/2014'
PUMPING	\$ 85,000	\$ 68,294	\$ 73,295
WATER TREATMENT	\$ 76,250	\$ 73,157	\$ 75,083
TRANS & DIST	\$ 210,750	\$ 121,981	\$ 117,944
WATER GENERAL EXP	\$ 194,583	\$ 272,640	\$ 341,141
<i>SUBTRACTED EQUIPMENT & VEHICLE REPLACEMENT</i>			
SUBTOTAL OPERATIONAL EXPENSES	\$566,583	\$536,072	\$607,463
CONTINGENCY	\$0		
SUBTOTAL	\$566,583		
COST OF INFLATION INCREASE	0.00%		
TOTAL OPERATIONAL EXPENSES	\$566,583		

GRAND LEDGE WATER QUARTERLY <10 COMBINED WATER AND SEWER REVENUE VS EXPENSES			
	YEAR OF	YEAR OF	YEAR OF
EXPENSES ACTUAL	2012/2013	2013/2014	2014/2015
EXPENSES SUPPLIERS	\$978,430	\$936,250	\$958,731
EMPLOYEES	\$573,898	\$520,240	\$624,515
CITY	\$218,151	\$267,593	\$232,012
DEBT	\$937,296	\$867,021	\$801,827
NORMAL ANNUAL OPERATING EXPENSES	\$2,707,775	\$2,591,104	\$2,617,085
CAPITAL	\$619,174	\$711,914	\$584,515
OVERALL EXPENSES	\$3,326,949	\$3,303,018	\$3,201,600
INCOME ACTUAL EARNED			
CUSTOMERS	\$3,195,696	\$2,982,181	\$2,911,275
INCOME TOTAL CUSTOMER BILLINGS	\$3,195,696	\$2,982,181	\$2,911,275
GALLONS OF WATER SOLD	255,819,471	218,702,922	215,677,608
OTHER INCOME			
INTEREST	\$14,749	\$14,819	\$32,900
DEBT PROCEEDS	\$97,179		
SUB TOTAL OTHER INCOME	\$111,928	\$14,819	\$32,900
NORMAL ANNUAL INCOME	\$3,307,624	\$2,997,000	\$2,944,175
RESERVE FUND BALANCE LEVEL	\$863,089	\$557,071	\$299,646
PROFIT / LOSS CUSTOMER BILLINGS	\$487,921	\$391,077	\$294,190
PROFIT / LOSS NORMAL REVENUE	-\$19,325	-\$306,018	-\$257,425
OVERALL PROFIT / LOSS	-\$19,325	-\$306,018	-\$257,425

GRAND LEDGE WATER QUARTERLY <10		
2016		
BOND INSTALLMENT ANNUAL PAYMENT SCHEDULE		
NAME OF LOAN	REFUNDED BOND 2005	2014 REFUNDED
PAID BY RATES OR OTHER ? IF OTHER - SOURCE	RATES	RATES
IF OTHER - \$ CONTRIBUTION FROM OTHER		
DATE OF ISSUE	2005	2004
DATE OF MATURITY	2016	2025
IS THERE A RESERVE REQUIREMENT	NO	NO
WHAT IS THE REQUIRED RESERVE \$\$		
CURRENT BALANCE IN THE REQUIRED RESERVE		
DATE OF PRINCIPAL & INTEREST PAYMENT	APRIL 1ST	APRIL 1ST
\$ AMOUNT OF THIS INTEREST PAYMENT	\$1,836	\$31,117
\$ AMOUNT OF PRINCIPAL THIS PAYMENT	\$73,428	\$204,987
DATE OF INTEREST PAYMENT		OCT 1ST
\$ AMOUNT OF THIS INTEREST PAYMENT		\$29,067
CURRENT CASH BALANCE IN THIS ACCOUNT		\$0
ORIGINAL LOAN AMOUNT		\$4,960,000
	ANNUAL PAYMENTS	ANNUAL PAYMENTS
2016	\$75,264	\$267,220
2017		\$346,094
2018		\$343,276
2019		\$343,463
2020		\$343,524
2021		\$343,461
2022		\$343,276
2023		\$342,652
2024		\$341,405
2025		\$341,405
2026		PAID OFF
2027		

2016	CURRENT BALANCE
BOND / LOAN PAYMENT SCHEDULES	INTEREST RATE 0.00%
2005 LOAN	
NEXT PAYMENT IS DUE ON	APRIL 1ST
FOR AMOUNT OF \$	\$75,264
2014 LAON	
NEXT PAYMENT IS DUE ON	APRIL 1ST
FOR AMOUNT OF \$	\$236,103
WATER PAYS 61.19 % OF EACH LOAN - WHICH IS CALCULATED INTO FORMULA	

YEAR	PAYMENTS	PAYMENT	BALANCE
2016	\$ 342,484	\$ 345,000.00	\$ 2,515.60
2017	\$ 346,094	\$ 345,000	\$ 1,421
2018	\$ 343,276	\$ 345,000	\$ 3,145
2019	\$ 343,463	\$ 345,000	\$ 4,682
2020	\$ 343,524	\$ 345,000	\$ 6,158
2021	\$ 343,524	\$ 345,000	\$ 7,634
2022	\$ 343,524	\$ 345,000	\$ 9,109
2023	\$ 343,524	\$ 345,000	\$ 10,585
2024	\$ 343,524	\$ 345,000	\$ 12,061
2025	\$ 343,524	\$ 345,000	\$ 13,536
2026	\$ 343,524	\$ 345,000	\$ 15,012
2027	\$ 343,524	\$ 345,000	\$ 16,488

MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

GRAND LEDGE WATER QUARTERLY <10	
LOANS, BONDS, INTEREST, ANNUAL PAYMENT	
REFUNDED BOND 2005	
2014 REFUNDED	\$345,000
REFUNDED BOND 2005 - LAST PAYMENT APRIL 1ST 2016	
LAST PAYMENT APRIL 2016 OF \$77,000	
TOTAL ANNUAL PAYMENTS	\$ 345,000.00
<i>MINUS INCOME TAX OR SPECIAL ASSES.</i>	
Adjusted Current Bond or Debt Minus Taxes etc.	\$ 345,000.00
No Tax revenue or special assessment revenue is applied to these payments	
TOTAL DEBT - NEW & CURRENT	<u>\$345,000.00</u>
WHAT YEAR IS LOAN PAID OFF	2025
IS DEBT LISTED SEPERATELY ON WATER BILL	YES

2016

GRAND LEDGE WATER

	GRAND LEDGE WATER QUARTERLY <10	GRAND LEDGE WATER QUARTERLY <10	DIFFERENCE PER QUARTER
PER 1,000 GAL.	\$4.60	\$3.79	\$0.81
	NEW	CURRENT	DIFFERENCE PER QUARTER
METER SIZE	BASE RATE PER QUARTER	BASE RATE PER QUARTER	
"3/4	\$34.91	\$21.98	\$12.93
1	\$87.27	\$54.95	\$32.32
1.5	\$174.55	\$109.90	\$64.65
2	\$279.28	\$175.84	\$103.44
3	\$558.56	\$351.68	\$206.88
4	\$872.75	\$549.50	\$323.25

These are the rates calculated for each meter size for each entity served. Also for the cost per unit of water sold for each entity.

2016

	GRAND LEDGE WATER MONTHLY	GRAND LEDGE WATER MONTHLY	DIFFERENCE PER QUARTER	DIFFERENCE PER MONTH
PER 1,000 GAL.	\$4.60	\$3.79	\$0.81	
	NEW	CURRENT		
METER SIZE				
"3/4	\$11.64	\$7.33	\$4.31	\$1.44
1	\$29.09	\$18.32	\$10.77	\$3.59
1.5	\$58.18	\$36.63	\$21.55	\$7.18
2	\$93.09	\$58.61	\$34.48	\$11.49
3	\$186.19	\$117.23	\$68.96	\$22.99
4	\$290.92	\$183.17	\$107.75	\$35.92
6	\$581.83	\$366.33	\$215.50	\$71.83

These are the rates calculated for each meter size for each entity served. Also for the cost per unit

2016

	GRAND LEDGE WATER OVER 10K	GRAND LEDGE WATER OVER 10K	DIFFERENCE PER MONTH
PER 1,000 GAL.	\$6.23	\$5.14	\$1.09
	NEW	CURRENT	

TYPICAL BILL USING NEW RATES GRAND LEDGE WATER QUARTERLY <10							PER 1,000 GAL.			
METER SIZE	TOTAL GALLONS	GALLONS USED	NEW BILL UNDER 10K	OLD BILL	CHANGE IN BILL	PERCENT INCREASE	USAGE OVER 10K	TOTAL NEW BILL	OLD BILL	CHANGE IN BILL
3/4		3,000	\$48.70	\$33.35	\$15.35	46%		\$48.70	\$33.35	\$15.35
3/4		7,000	\$67.09	\$48.51	\$18.58	38%		\$67.09	\$48.51	\$18.58
3/4		10,000	\$80.88	\$59.88	\$21.00	35%		\$80.88	\$59.88	\$21.00
3/4	15,000	10,000	\$80.88	\$59.88	\$21.00	35%	5,000	\$112.05	\$85.58	\$26.47
3/4	20,000	10,000	\$80.88	\$59.88	\$21.00	35%	10,000	\$143.22	\$111.28	\$31.94
1	25,000	10,000	\$133.24	\$92.85	\$40.39	44%	15,000	\$226.75	\$169.95	\$56.80
1.25							-	\$0.00	\$0.00	\$0.00
1.5	25,000	10,000	\$220.52	\$147.80	\$72.72	49%	15,000	\$314.02	\$224.90	\$89.12
2	30,000	10,000	\$325.24	\$213.74	\$111.50	52%	20,000	\$449.92	\$316.54	\$133.38
3	50,000	10,000	\$604.52	\$389.58	\$214.94	55%	40,000	\$853.88	\$595.18	\$258.70
4	60,000	10,000	\$918.71	\$587.40	\$331.31	56%	50,000	\$1,230.41	\$844.40	\$386.01
GALLONS INCLUDED MIN BILL			0	0						

FIVE YEAR INCREASE													
GRAND LEDGE WATER													
GRAND LEDGE WATER QUARTERLY <10													
LOANS, RESERVE FUNDING & OTHER EXPENSES		\$33.66				LOANS, RESERVE FUNDING & OTHER EXPENSES		\$1.38					
LABOR & OPERATIONS COST PER 3/4" METER		\$4.13				LABOR & OPERATIONS COST PER UNIT		\$3.40					
TOTAL RATE		\$37.79				TOTAL RATE PER UNIT		\$4.78					
Suggested annual increase in percent		2.0%				Suggested annual increase in percent		2.0%					
BASE RATE COST		1,000 GAL.											
YEAR	% INCREASE	\$ INCREASE	LABOR & OPER. RATE	TOTAL RATE	PROJECTED INCOME FIXED COST	% INCREASE	\$ INCREASE	LABOR & OPER. RATE	TOTAL RATE	PROJECTED INCOME CONSUMPTION	COMBINED INCOME	NON OPERATING INCOME	TOTAL COMBINED INCOME
2017	2.0%	\$0.083	\$4.217	\$37.877	\$656,490	2.0%	\$0.0680	\$3.469	\$4.852	\$1,294,269	\$1,950,760	\$100,000	\$2,050,760
2018	2.0%	\$0.084	\$4.302	\$37.962	\$657,952	2.0%	\$0.0694	\$3.538	\$4.921	\$1,312,776	\$1,970,729	\$100,000	\$2,070,729
2019	2.0%	\$0.086	\$4.388	\$38.048	\$659,443	2.0%	\$0.0708	\$3.609	\$4.992	\$1,331,654	\$1,991,097	\$100,000	\$2,091,097
2020	2.0%	\$0.088	\$4.475	\$38.135	\$660,964	2.0%	\$0.0722	\$3.681	\$5.064	\$1,350,909	\$2,011,873	\$100,000	\$2,111,873
2021	2.0%	\$0.090	\$4.565	\$38.225	\$662,516	2.0%	\$0.0736	\$3.755	\$5.138	\$1,370,548	\$2,033,064	\$100,000	\$2,133,064
INCREASE CALCULATION USES ONLY LABOR & OPERATIONS COST -													

INCREASE RATES ANNUALLY

LOANS / BONDS / ARE NOT INCLUDED IN ANNUAL INCREASE. RESERVE FUNDING ALREADY HAS COST OF LIVING BUILT INTO REPLACEMENT SPREADSHEETS. Customers are more likely to pay for rate increases if their rates are generally stable. Most systems know that the worst thing they can do is maintain a stable rate for many years, then increase it by 10 percent or more. A single, large increase can lead to "rate shock" and opposition to the increase. It is far better to increase rates by 2 percent per year for 5 years than 10 percent once every 5 years.

GRAND LEDGE WATER ASSET INVENTORY, REPLACEMENT & REHABILITATION SCHEDULE																									
2016																									
FIXED ASSET INVENTOR										ASSET REPLACEMENT SCHEDULE								SERVICE / MAINTENANCE / REHAB HISTORY (ASSET ASSESSMENT)						ANNUAL RESERVE FUNDING	
EQUIPMENT LIST / MAINTENANCE ACTIVITY	ORIGINAL INSTALLATION YEAR	NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT REPLACEMENT YEAR	REMAINING LIFE - YEARS BEFORE REPLACEMENT	TOTAL REPLACEMENT COST	PERCENT REPLACEMENT COST FUNDED BY RATES	REPLACEMENT COST FUNDED BY RATES	PERCENT OF ASSET LEFT	PERCENT CONSUMED	MAINTENANCE / REHAB ACTIVITY PERFORMED	YEAR(S) PERFORMED	LAST MAJOR MAINTENANCE - YEAR	TYPICAL / ANTICIPATED / REHAB - COST	TYPICAL YEARS BETWEEN REHABS	YEARS TO NEXT ANTICIPATED REHAB	REHAB IN YEAR	REPLACEMENT MONEY RESERVED ANNUALLY	REHAB / REPAIR MONEY RESERVED ANNUALLY						
IRON REMOVAL PLANT													0												
HIGH SERVICE PUMPS 1500	1989	35	27	2024	8	\$18,000	100%	\$18,000	23%	77%	REHAB	1989	2000	\$ 10,000	20	4	2020	\$514	\$500						
HIGH SERVICE PUMPS 1000	1989	35	27	2024	8	\$15,000	100%	\$15,000	23%	77%	REHAB	2005	2005	\$ 7,500	20	9	2025	\$429	\$375						
HIGH SERVICE PUMPS 500	1989	35	27	2024	8	\$10,000	100%	\$10,000	23%	77%	REHAB	1989	2000	\$ 5,000	20	4	2020	\$286	\$250						
FILTER MEDIA REPLACEMENT & PAINT INTERIOR	2009	20	7	2029	13	\$25,000	100%	\$25,000	65%	35%								\$1,250							
BLOWER MOTORS 1	2004	15	12	2019	3	\$2,700	100%	\$2,700	20%	80%								\$180							
BLOWER MOTORS 2	2004	15	12	2019	3	\$2,700	100%	\$2,700	20%	80%								\$180							
CHEMICAL FEED SYSTEM - FL & CHE	2007	10	9	2017	1	\$9,000	100%	\$9,000	10%	90%								\$900							
ELECTRICAL CONTROLS	2005	12	11	2017	1	\$10,000	100%	\$10,000	8%	92%								\$833							
FLOW METERS 2 UNITS	2005	15	11	2020	4	\$3,900	100%	\$3,900	27%	73%								\$260							
PRESSURE TRANSMITTER	2014	15	2	2029	13	\$2,350	100%	\$2,350	87%	13%								\$157							
VFD DRIVE UNITS - 20K EACH	2005	15	11	2020	4	\$56,000	100%	\$56,000	27%	73%								\$3,733							
ROTORK VALVE	2005	25	11	2030	14	\$13,100	100%	\$13,100	56%	44%	REHAB	2014	2014	\$ 1,500	12	10	2026	\$52	\$125						
CHLORINE EMERGENCY KIT	2008	25	8	2033	17	\$2,350	100%	\$2,350	68%	32%								\$94							
SCBA	2008	10	8	2018	2	\$3,600	100%	\$3,600	20%	80%								\$360							
Dump Truck	2005	20	11	2025	9	\$75,000	100%	\$75,000	45%	55%								\$3,750							
Backhoe	2003	25	13	2028	12	\$115,000	100%	\$115,000	48%	52%								\$4,600							
Air Compressor	2008	20	8	2028	12	\$16,000	100%	\$16,000	60%	40%								\$800							
W-2 PICKUP	2010	12	6	2022	6	\$17,500	100%	\$17,500	50%	50%								\$1,458							
W-1 PICKUP 4x4	2009	12	7	2021	5	\$21,500	100%	\$21,500	42%	58%								\$1,792							
F150 (Kemp)	2014	12	2	2026	10	\$15,000	100%	\$15,000	83%	17%								\$1,250							
IRON PLANT ROOF	2009	25	7	2034	18	\$15,000	100%	\$15,000	72%	28%								\$600							
BOOSTER PUMP STATION																									
Generator/Cummins 250KW/1 DDDAA - W/ SWITCHGEAR	2005	25	11	2030	14	\$55,000	100%	\$55,000	58%	44%								\$2,200							
Split Case Pumps/Pentair Aurora 06-1411125-2 - PUMP 1 - 20K EACH size 8x8x11B 700 GPM	2005	20	11	2025	9	\$20,000	100%	\$20,000	45%	55%	REHAB		2005	\$ 6,000	15	4	2020	\$1,000	\$400						
Split Case Pumps/Pentair Aurora 06-1411125-2 - PUMP 2 - 20K EACH size 8x8x11B 700 GPM	2005	20	11	2025	9	\$20,000	100%	\$20,000	45%	55%	REHAB		2005	\$ 6,000	12	1	2017	\$1,000	\$500						
Split Case Pumps/Pentair Aurora 06-1411125-2 - PUMP 3 - 20K EACH size 8x8x11B 700 GPM	2005	20	11	2025	9	\$20,000	100%	\$20,000	45%	55%	REHAB	2014	2014	\$ 6,000	10	8	2024	\$1,000	\$600						
AURORA Electric Motors D75V2B - 2 UNITS	2005	20	11	2025	9	\$14,550	100%	\$14,550	45%	55%								\$728							
Krohne 12" MAG Flowmeter	2005	15	11	2020	4	\$7,200	100%	\$7,200	27%	73%								\$480							
Krohne 16" MAG Flowmeter	2005	15	11	2020	4	\$12,400	100%	\$12,400	27%	73%								\$827							
Control Panel/Alan Bradley Parallels Plus 1250	2005	20	11	2025	9	\$2,400	100%	\$2,400	45%	55%								\$120							
VFD DRIVE 3 UNITS - ONE FOR EACH PUMP	2005	20	11	2025	9	\$84,000	100%	\$84,000	45%	55%								\$4,200							
Electric Panel/Gear	2005	20	11	2025	9	\$10,000	100%	\$10,000	45%	55%								\$500							
Singer Pressure Reducing Valves (2)	2005	20	11	2025	9	\$11,806	100%	\$11,806	45%	55%								\$590							
Singer Pressure Reducing Valves (1)	2005	20	11	2025	9	\$6,091	100%	\$6,091	45%	55%								\$305							
Singer Pressure Reducing Valves (1)	2005	20	11	2025	9	\$7,449	100%	\$7,449	45%	55%								\$372							
Rotork Actuator (1)	2005	15	11	2020	4	\$15,350	100%	\$15,350	27%	73%								\$1,023							
Rotork Actuator (1)	2005	15	11	2020	4	\$13,100	100%	\$13,100	27%	73%								\$873							
ETEK PSI Gauge Transmitter	2005	12	11	2017	1	\$5,000	100%	\$5,000	8%	92%								\$417							
CHLORINE FEED SYSTEM	2005	15	11	2020	4	\$4,300	100%	\$4,300	27%	73%								\$287							
GROUND STORAGE TANK EXTERIOR PAINTING																									
WATER TOWER 500K INTERIOR PAINT	2007	25	9	2032	16	\$100,000	100%	\$100,000	64%	36%								\$4,000							
WATER TOWER 500K EXTERIOR PAINT	2007	15	9	2022	6	\$100,000	100%	\$100,000	40%	60%								\$6,667							
WATER TOWER 500K DRY INTERIOR	2007	25	9	2032	16	\$10,000	100%	\$10,000	64%	36%								\$400							
WATER TOWER 100K INTERIOR PAINT	2004	25	12	2029	13	\$30,000	100%	\$30,000	52%	48%								\$1,200							
WATER TOWER 100K EXTERIOR PAINT	2004	15	12	2019	3	\$65,000	100%	\$65,000	20%	80%								\$4,333							
HAND HELD METER READ 1	2013	15	3	2028	12	\$6,500	100%	\$6,500	80%	20%								\$433							
HAND HELD METER READ 2	2005	15	11	2020	4	\$6,500	100%	\$6,500	27%	73%								\$433							

GRAND LEDGE WATER ASSET INVENTORY, REPLACEMENT & REHABILITATION SCHEDULE																		
2016																		
FIXED ASSET INVENTOR										SERVICE / MAINTENANCE / REHAB HISTORY (ASSET ASSESSMENT)							ANNUAL RESERVE FUNDING	
EQUIPMENT LIST / MAINTENANCE ACTIVITY	ORIGINAL INSTALLATION YEAR	NORMAL INTENDED USEFUL LIFE	REMAINING LIFE-YEARS BEFORE REPLACEMENT	TOTAL REPLACEMENT COST	PERCENT REPLACEMENT COST FUNDED BY RATES	REPLACEMENT COST FUNDED BY RATES	PERCENT OF ASSET LEFT	PERCENT CONSUMED	MAINTENANCE / REHAB ACTIVITY PERFORMED	YEARS) PERFORMED	LAST MAJOR MAINTENANCE -YEAR	TYPICAL / ANTICIPATED / REHAB - COST	TYPICAL YEARS BETWEEN REHAB(S)	YEARS TO NEXT ANTICIPATED REHAB	PERCENT CONSUMED UNTIL REHAB or REPLACEMENT	REHAB IN YEAR	REPLACEMENT MONEY RESERVED ANNUALLY	REHAB / REPAIR MONEY RESERVED ANNUALLY
Electric Motor 40 h.p./GE5K404XA17H -- WELL 2 BACKUP	1995	40	19	\$6,000	100%	\$6,000	48%	53%	REHAB	1995	1995	\$ 2,000	25	4	84%	2020	\$150	\$80
Water Specialties Flow Meter 6"	2007	15	6	\$2,040	100%	\$2,040	40%	60%							60%		\$136	
Hypochlorinator/Flouride Pump	2014	8	6	\$1,000	100%	\$1,000	75%	25%							25%		\$125	
Electric Gear/Panels	2005	12	1	\$7,500	100%	\$7,500	8%	92%							92%		\$625	
Check Valve	2005	25	14	\$1,760	100%	\$1,760	56%	44%							44%		\$70	
Hypochlorinator/Propriate Pump	2007	12	3	\$1,000	100%	\$1,000	25%	75%							75%		\$83	
Air Vacuum Valve	2005	25	14	\$800	100%	\$800	56%	44%							44%		\$32	
WELL PUMP	1995	40	19	\$25,000	100%	\$25,000	48%	53%	REHAB	1995	1995	\$ 15,000	25	4	84%	2020	\$625	\$600
WELL CLEANING	1995	25	4	\$5,000	100%	\$5,000	16%	84%							84%		\$200	
WELL 8																		
Electric Motor A286TPA 30 h.p.	2011	40	35	\$5,600	100%	\$5,600	88%	13%	REHAB	2011	2011	\$ 2,500	10	5	50%	2021	\$140	\$250
Check Valve Apco Swing Check Valve 8"	1996	25	5	\$1,800	10%	\$180	20%	80%							80%		\$7	
Flow Meter Water Specialties 8"	1996	25	5	\$2,400	100%	\$2,400	20%	80%							80%		\$96	
Electric Gear/Panels	1996	25	5	\$7,500	100%	\$7,500	20%	80%							80%		\$300	
Air Vacuum Valve	1996	25	5	\$800	100%	\$800	20%	80%							80%		\$32	
WELL PUMP	2011	40	35	\$25,000	100%	\$25,000	88%	13%	REHAB	2011	2011	\$ 15,000	10	5	50%	2021	\$625	\$1,500
WELL CLEANING	2011	10	5	\$5,000	100%	\$5,000	50%	50%							50%		\$500	
WELL 7																		
Electric Motor 346TP 50 h.p.	1984	40	8	\$7,700	100%	\$7,700	20%	80%	REHAB	2011	2011	\$ 2,500	10	5	50%	2021	\$193	\$250
Flow Meter Water Specialties 8"	2005	15	4	\$2,450	100%	\$2,450	27%	73%							73%		\$163	
Check Valve	1984	40	8	\$1,800	100%	\$1,800	20%	80%							80%		\$45	
(2) Valves	1984	40	8	\$4,100	100%	\$4,100	20%	80%							80%		\$103	
Generator 125 KW/H	2005	25	14	\$35,000	100%	\$35,000	56%	44%							44%		\$1,400	
WELL PUMP	1984	40	8	\$25,000	100%	\$25,000	20%	80%	REHAB	2011	2011	\$ 15,000	10	5	50%	2021	\$625	\$1,500
WELL CLEANING	2011	10	5	\$5,000	100%	\$5,000	50%	50%							50%		\$500	
WELL 6 1941																		
Motor 75 h.p.	1971	50	5	\$10,000	100%	\$10,000	10%	90%	REHAB	2007 & 2016	2016	\$ 1,900	9	9	0%	2025	\$200	\$211
Generator	1971	45	0	\$33,000	100%	\$33,000	0%	100%							100%		\$733	
Flow Meter	2010	10	4	\$3,900	100%	\$3,900	40%	60%							60%		\$390	
Butterfly Valve	1971	50	5	\$700	100%	\$700	10%	90%							90%		\$14	
Electric Panel/Gear	1971	47	2	\$7,500	100%	\$7,500	4%	96%							96%		\$160	
Air Vacuum Valve	2007	15	6	\$8,000	100%	\$8,000	40%	60%							60%		\$533	
WELL PUMP	1971	50	5	\$25,000	100%	\$25,000	10%	90%	REHAB	2007 & 2016	2016	\$ 5,000	9	9	0%	2025	\$500	\$556
WELL CLEANING	2015	9	8	\$6,800	100%	\$6,800	89%	11%							11%		\$756	

ASSET INVENTORY, REPLACEMENT & REHABILITATION SCHEDULE

COST OF LIVING INCREASE	3.00%
CURRENT RESERVE BALANCE APPLIED TO THIS ACCOUNT	\$ -
AVG. INTEREST RATE IN SAVINGS	0.10%

USDA RURAL DEVELOPMENT RRI ANNUAL RESERVE	\$ -
ASSET REPLACEMENT ANNUAL FUNDING	\$ 67,894
ASSET REHAB ANNUAL FUNDING	\$ 7,697
COMBINED ANNUAL RESERVED	\$ 75,591
Annual Funding Applied to Budget / Rates	\$ 115,112

YEAR	PURPOSE	ANNUAL REHAB EXPENDITURES WITH C.O.L.	ANNUAL REPLACEMENT EXPENDITURES WITH C.O.L.	ANNUAL FUNDING AMOUNT	RUNNING BALANCE IN ACCOUNT
2016	SEE EQUIPMENT LIST	\$0	\$33,000	\$ 115,112	\$82,227
2017	FOR ANNUAL EXPENDITURES	\$6,180	\$32,445	\$115,112	\$158,796
2018	0	\$0	\$11,766	\$115,112	\$262,301
2019	0	\$0	\$77,826	\$115,112	\$299,849
2020	0	\$42,560	\$145,712	\$115,112	\$226,988
2021	0	\$40,250	\$89,792	\$115,112	\$212,285
2022	0	\$0	\$151,677	\$115,112	\$175,932
2023	0	\$0	\$0	\$115,112	\$291,220
2024	0	\$7,440	\$109,616	\$115,112	\$289,567
2025	0	\$18,288	\$357,246	\$115,112	\$29,434
2026	0	\$1,950	\$19,500	\$115,112	\$123,125
2027	0	\$0	\$11,970	\$115,112	\$226,390
2028	0	\$0	\$191,896	\$115,112	\$149,833
2029	0	\$8,340	\$110,992	\$115,112	\$145,763
2030	0	\$0	\$140,253	\$115,112	\$120,767
2031	0	\$50,750	\$26,100	\$115,112	\$159,149
2032	0	\$0	\$162,800	\$115,112	\$111,620
2033	0	\$0	\$46,282	\$115,112	\$180,562
2034	0	\$19,866	\$158,466	\$115,112	\$117,523
2035	0	\$9,420	\$238,954	\$115,112	(\$15,622)
2036	0	\$0	\$0	\$115,112	\$99,474
2037	0	\$0	\$194,035	\$115,112	\$20,650
2038	0	\$2,490	\$32,536	\$115,112	\$100,757
2039	0	\$0	\$0	\$115,112	\$215,969
2040	0	\$25,800	\$6,708	\$115,112	\$298,789
2041	0	\$71,750	\$56,875	\$115,112	\$285,575
2042	0	\$0	\$12,104	\$115,112	\$388,868
2043	0	\$12,489	\$11,765	\$115,112	\$480,115

STARTING BALANCE EQUIVALENT IN ENDING YEAR = \$0

What is Equipment Replacement?

A replacement schedule should be developed that indicates those assets that will be replaced within the next 30 years that will be **funded out of system revenues**. The schedule will contain assets that are smaller dollar amount or routinely recurring and should include assets that will be paid for out of system revenues. A couple of examples of these types of assets are: water tower paintings and chlorine pumps, well pumps and controls, raw sewage pumps, sanitary sewage pumps stations etc. Larger more long term items like water distribution piping, sanitary sewer lines are typically included in a Capital Improvements program. See notes below in Capital Improvements

This schedule can also be expanded to include programmed maintenance or repair, making it a Repair & Replacement Schedule. The types of maintenance activities that can be included here are major, programmed repair elements, such as a storage tank inspection done every five years and a tank overhaul (repaint, structural testing, cleaning) or leak detection every 3 years or a digester cleaning every ten years, or a well cleaning done every 5 years. If it occurs every year then it should be in the standard O & M budget. This Schedule does not replace the normal annual operation and maintenance budget. It merely reflects those elements that are major budget items that do NOT occur on an annual basis and thus are not in the typically O&M annual budget. These are generally items that constitute a major budget expenditure.

The schedule should include all of the recurring and non-recurring items for a 30 year period. The Repair and Replacement Schedule should be updated annually so that it is always 30 years long.

It is absolutely critical that the items in the Repair and Replacement Schedule be entered into the rate setting process. These items must be funded out of system revenues, so they must be accounted for in the annual budget and in the rates. The Schedule will probably not be uniform from year to year in terms of amount of expenditure. To address this issue, the program will set an annual annuity payment to cover the Repair and Replacement Schedule expenses over the long term. Some years, the payment would be greater than that year's expenses, so money would go into a Repair and Replacement Reserve. Other times, the amount collected would be less than required so the additional funds would come from the reserve account. The annual annuity set would have to be sufficient to cover all of the expenses over the 30 year period. It may need to be increased over time if expenses increase and it can be decreased if it turns out too much money was dedicated to this purpose.

GRAND LEDGE WATER	
	ANNUAL BUDGET
LABOR & BENEFITS	\$ 412,291
OPERATION & MAINTENANCE EXPENSES	\$ 566,583
LOANS, BONDS, INTEREST, ANNUAL PAYMENT	\$ 345,000
ASSET REPLACEMENT AND REHABILITATION	\$ 115,112
CAPITAL IMPROVEMENTS + \$75,000 + \$112,700 Jones St	\$ 492,197
TOTALS	\$ 1,931,182

GRAND LEDGE WATER		
	ANNUAL BUDGET	BASE PORTION
LABOR & BENEFITS	\$ 412,291	\$ 32,567
OPERATIONAL EXPENSES	\$ 566,583	\$ 39,094
BONDS, LOAN/ANNUAL	\$ 345,000	\$ -
ASSET REPLACEMENT AND REHABILITATION	\$ 115,112	\$ 14,447
CAPITAL IMPROVEMENTS + \$75,000 + \$112,700 Jones St	\$ 492,197	\$ 223,950
TOTALS	\$ 1,931,182	\$ 655,057

GRAND LEDGE WATER			
BUDGET ITEMS	ANNUAL BUDGET	BASE PORTION	COST PER 3/4" METER
LABOR & BENEFITS	\$ 412,291	\$ 32,567	\$ 1.88
OPERATIONAL EXPENSES	\$ 566,583	\$ 39,094	\$ 2.26
BONDS, LOAN/ANNUAL	\$ 345,000	\$ 345,000	\$ 19.91
ASSET REPLACEMENT AND REHABILITATION	\$ 115,112	\$ 14,447	\$ 0.83
CAPITAL IMPROVEMENTS + \$75,000 + \$112,700 Jones St	\$ 492,197	\$ 223,950	\$ 12.92
TOTALS	\$ 1,931,182	\$ 655,057	\$ 37.79
NON OPERATING INCOME REDUCTION			\$ 2.88
TOTAL COST PER UNIT			NEW RATES \$ 34.91

GRAND LEDGE WATER			
BUDGET ITEMS	ANNUAL BUDGET	VARIABLE PORTION	COST / UNIT OF WATER
LABOR & BENEFITS	\$ 412,291	\$ 379,724	\$ 1.42
OPERATIONAL EXPENSES	\$ 566,583	\$ 527,490	\$ 1.98
BONDS, LOAN/ANNUAL	\$ 345,000	\$ -	\$ -
ASSET REPLACEMENT AND REHABILITATION	\$ 115,112	\$ 100,665	\$ 0.38
CAPITAL IMPROVEMENTS + \$75,000 + \$112,700 Jones St	\$ 492,197	\$ 268,247	\$ 1.01
TOTALS	\$ 1,931,182	\$ 1,276,125	\$ 4.78
NON OPERATING INCOME REDUCTION			\$ 0.10
TOTAL COST PER UNIT			NEW RATES \$ 4.60

GRAND LEDGE WATER			
BUDGET ITEMS	ANNUAL BUDGET	COST PER 3/4" METER	COST / UNIT OF WATER
LABOR & BENEFITS	\$ 412,291	\$ 1.88	\$ 1.42
OPERATIONAL EXPENSES	\$ 566,583	\$ 2.26	\$ 1.98
BONDS, LOAN/ANNUAL	\$ 345,000	\$ 19.91	\$ -
ASSET REPLACEMENT AND REHABILITATION	\$ 115,112	\$ 0.83	\$ 0.38
CAPITAL IMPROVEMENTS + \$75,000 + \$112,700 Jones St	\$ 492,197	\$ 12.92	\$ 1.01
TOTALS	\$ 1,931,182	\$ 37.79	\$ 4.78
NON OPERATING INCOME REDUCTION			\$ 2.88 \$ 0.10
TOTAL COST PER UNIT			NEW RATES \$ 34.91 \$ 4.60

GRAND LEDGE WATER	
SIZE OF METER	COST PER METER
3/4"	\$34.91
1"	\$37.27
1.25"	\$0.00
1.5"	\$174.55
2"	\$279.28

Equipment Replacement Cost

WATER

Location	Description	Cost	Life/Yrs.	Annual Exp.
Iron Removal Plant				
	High Service Pump - 1500	\$ 10,000.00	25	\$ 400.00
	High Service Pump - 1000	\$ 7,700.00	25	\$ 308.00
	High Service Pump - 500	\$ 5,600.00	25	\$ 224.00
	Filter Media Replacement		20	\$ 1,250.00
	Blowers/Motors	\$ 2,700.00	20	\$ 135.00
	Chemical Pumps	\$ 5,000.00	10	\$ 500.00
	Gas Chlorine	\$ 4,300.00	10	\$ 430.00
	Electric Gear		10	\$ 1,000.00
	Flow Metering Equipment	\$ 3,900.00	15	\$ 260.00
	Pressure Transmitter	\$ 2,350.00	15	\$ 156.67
	(2) VFD Cutler Hammer SUX 9000	\$ 56,000.00	15	\$ 3,733.33
	Rotork			
	Chlorine Emergency Kit A	\$ 2,350.00	25	\$ 94.00
	SCBA	\$ 3,600.00	10	\$ 360.00
	Rotary Actuator	\$ 13,100.00	15	\$ 873.33
Vehicles				
	Dump Truck	\$ 75,000.00	20	\$ 3,750.00
	Backhoe		25	\$ 4,600.00
	Air Compressor	\$ 16,000.00	20	\$ 800.00
	W-2	\$ 17,500.00	12	\$ 1,458.33
	W-1	\$ 21,500.00	12	\$ 1,791.67
	F150 (Kim's)	\$ 15,000.00	12	\$ 1,250.00
Booster Pump Station				
	Generator/Cummins 250KWH DQDAA - W/ SWITCHGEAR	\$ 55,000.00	25	\$ 2,200.00
	Split Case Pumps/Pentair Aurora 06-1411125-2 - 3 PUMPS - 20K EACH siz		20	\$ 3,000.00
	Emerson Electric Motors D75V2B	\$ 4,850.00	20	\$ 242.50
	Krohne 12" MAG Flowmeter	\$ 7,240.00	15	\$ 482.67
	Krohne 16" MAG Flowmeter	\$ 12,400.00	15	\$ 826.67
	Control Panel/Allen Bradley Panelview Plus 1250	\$ 2,400.00	20	\$ 120.00
	(3) VFD		15	\$ 5,600.00
	Electric Panel/Gear		10	\$ 1,000.00
	Singer Pressure Reducing Valves (2)	\$ 11,806.00	20	\$ 590.30
	Singer Pressure Reducing Valves (1)	\$ 6,091.00	20	\$ 304.55
	Singer Pressure Reducing Valves (1)	\$ 7,449.00	20	\$ 372.45
	Rotork Actuator (1)	\$ 15,350.00	15	\$ 1,023.33
	Rotork Actuator (1)	\$ 13,100.00	15	\$ 873.33
	ETEK PSI Gauge Transmitter	\$ 5,000.00	10	\$ 500.00
Well #2				
	Electric Motor 40 h.p./GE5K404XA17H	\$ 6,000.00	20	\$ 300.00
	Water Specialties Flow Meter 6"	\$ 2,040.00	10	\$ 204.00
	Hypochlorinator/Flouride Pump	\$ 1,000.00	8	\$ 125.00
	Electric Gear/Panels	\$ 7,500.00	10	\$ 750.00
	Check Valve	\$ 1,760.00	8	\$ 220.00
	Hypochlorinator/Phophate Pump	\$ 1,000.00	8	\$ 125.00
	Air Vacuum Valve	\$ 800.00	10	\$ 80.00
Well #8				
	Electric Motor A286TPA 30 h.p.	\$ 5,600.00	20	\$ 280.00
	Check Valve Apco Swing Check Valve 8"	\$ 1,800.00	8	\$ 225.00
	Flow Meter Water Specialties 8"	\$ 2,400.00	8	\$ 300.00
	Electric Gear/Panels	\$ 7,500.00	10	\$ 750.00
	Air Vacuum Valve	\$ 800.00	8	\$ 100.00
Well #7				
	Electric Motor 346TP 50 h.p.	\$ 7,700.00	20	\$ 385.00
	Flow Meter Water Specialties 8"	\$ 2,450.00	8	\$ 306.25
	Check Valve	\$ 1,800.00	8	\$ 225.00
	(2) Valves	\$ 4,100.00	10	\$ 410.00
	Generator 125 KWH	\$ 35,000.00	25	\$ 1,400.00
Well #6				
	Motor 75 h.p.	\$ 10,000.00	20	\$ 500.00
	Generator	\$ 33,000.00	25	\$ 1,320.00
	Flow Meter	\$ 3,900.00	10	\$ 390.00
	Butterfly Valve	\$ 700.00	15	\$ 46.67
	Electric Panel/Gear	\$ 7,500.00	10	\$ 750.00
	Air Vacuum Valve	\$ 8,000.00	15	\$ 533.33
Total Annual Budget				\$ 50,235

City of Grand Ledge
 5-Year Capital Improvement Projects

Fiscal Year	Project Name	Est. Water Cost	Est. San. Sewer Cost
2017	E. River/Russel Reconstruction (100 & 200 Block E. River & Russel St.)	\$ 118,000	\$ 71,000
2017	Jenne St. Reconstruction, Edwards to M43	-	\$ 337,765
2018	E. River Reconstruction, Russel to Franklin	\$ 152,000	\$ 261,500
2018	W. Colonial Reconstruction, Edwards to Park Ct.	\$ 107,900	-
2019	S. Bridge Reconstruction, Jenne to Scott	\$ 100,900	\$ 172,000
2019	Cedar St. Reconstruction, S. Clinton to Old Post	\$ 58,500	\$ 134,500
2020	E. Kent Reconsruction, Jenne to Scott	\$ 107,250	\$ 182,750
2021	Green St. Reconstruction, Jones to W. South	\$ 117,000	\$ 201,000
2022	Jones St. Reconstruction, Green to Kennedy (includes water main on Kennedy & Seminary)	\$ 200,125	-
2022	Jenne St. Reconstruction, South to W. Lincoln	-	\$ 187,000