

WATER UTILITY PROJECTS FY 2008-2009

WATER UTILITY CAPITAL IMPROVEMENT PROGRAM BUDGET FY 08-09

PROJECT SUMMARY

Fund 6700.67999

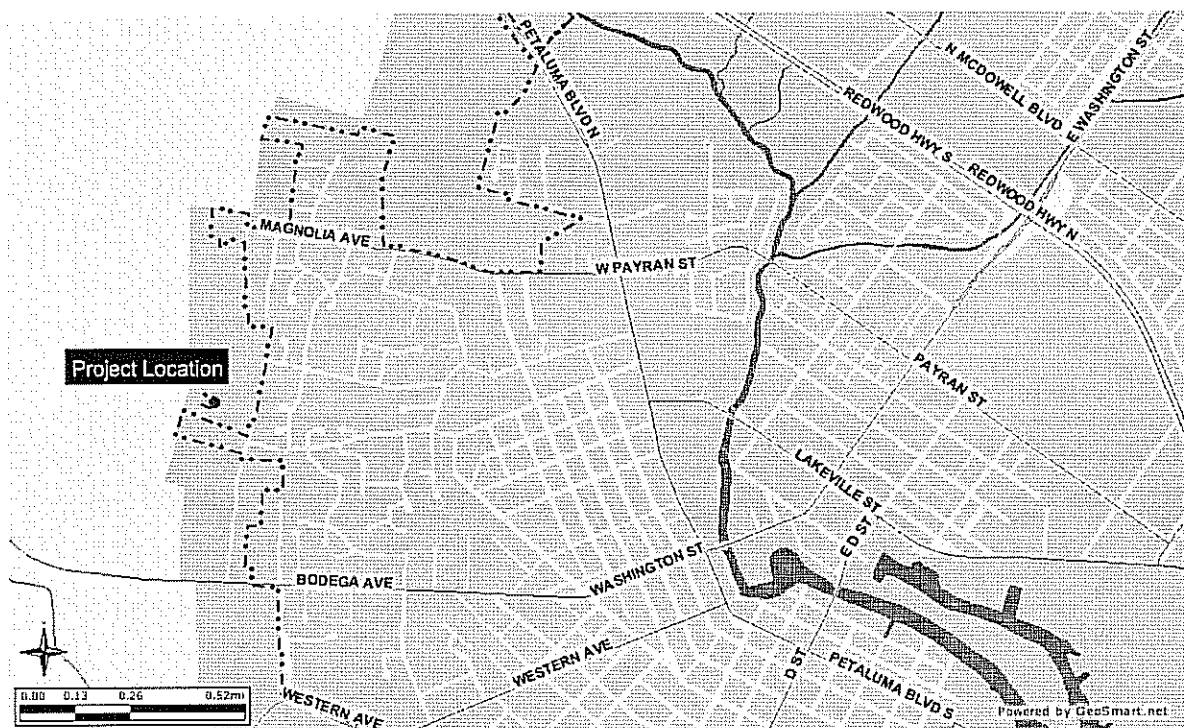
PROJECTS (dollars in \$000)	Prior Years	08-09	Total Appro. thru 08-09	09-10	10-11	Future Yrs	Est. Total
C00500101 Paula Lane Reservoir	2,996	-	2,996	-	-	-	2,996
C00501008 E. Wash. St. Water Main Replacement	-	1,460	1,460	-	-	-	1,460
C67400901 Water Main Replacements 2009 Various	-	670	670	-	-	-	670
C67400902 E. Madison St. Water Main Replacement	-	110	110	330	-	-	440
C67500903 Automatic Meter Read Replacement	-	600	600	550	1,050	1,050	3,250
TOTAL	<u>\$ 2,996</u>	<u>\$ 2,840</u>	<u>\$ 5,836</u>	<u>\$ 880</u>	<u>\$ 1,050</u>	<u>\$ 1,050</u>	<u>\$ 8,816</u>
SOURCES (DOLLARS IN \$000)							
Water Operating	\$ 841	\$ 2,240	\$ 3,081	\$ 330	\$ -	\$ -	\$ 3,411
Debt Proceeds	<u>2,155</u>	<u>600</u>	<u>2,755</u>	<u>550</u>	<u>1,050</u>	<u>1,050</u>	<u>5,405</u>
TOTAL	<u>\$ 2,996</u>	<u>\$ 2,840</u>	<u>\$ 5,836</u>	<u>\$ 880</u>	<u>\$ 1,050</u>	<u>\$ 1,050</u>	<u>\$ 8,816</u>

Project Title: Paula Lane Reservoir #2

Project #: C00500101

The Paula Lane Reservoir #2 is needed to increase the City's water storage capacity by 1.7 MG. This will provide the City with 14.7 MG of storage, which is almost equal to two days of average demand. This will improve the integrity and security of the City's water system, and support the future replacement of the Oak Hill Reservoir, which was constructed in the 1880s. This project will allow needed maintenance of the Paula Lane Reservoir #1 to occur. Reservoir No. 1 was built in 1963 and needs maintenance, including sand blasting and re-coating the interior, replacement of the vents with screens, recoating the exterior, and safety improvements.

Property acquisition was completed in FY 02/03. Drainage improvements were constructed in FY 03/04. Design of the new reservoir began in FY 05/06 and was completed in FY 07/08. This project was ready for construction in FY 07/08, but was postponed due to the rate initiative.



Paula Lane Reservoir
 Fund

C00500101
 6700.67999

	<u>Prior</u>		<u>Total Appro.</u>				<u>Est.</u>
	<u>Years</u>	<u>08-09</u>	<u>thru 08-09</u>	<u>09-10</u>	<u>10-11</u>	<u>Future Yrs</u>	<u>Total</u>
USES (dollars in \$000)							
54110 Design	\$ 240	\$ 100	\$ 340	\$ -	\$ -	\$ -	\$ 340
54150 Planning/Environmental	31	27	58	-	-	-	58
54151 Construction Contracts	1,795	-	1,795	-	-	-	1,795
54152 Construction Management	150	-	150	-	-	-	150
55011 CIP Overhead	140	(127)	13	-	-	-	13
57310 Contingency	210	-	210	-	-	-	210
62110 Land and Easements	430	-	430	-	-	-	430
TOTAL	\$ 2,996	\$ -	\$ 2,996	\$ -	\$ -	\$ -	\$ 2,996
SOURCES (dollars in \$000)							
Water Operating	\$ 841	\$ -	\$ 841	\$ -	\$ -	\$ -	\$ 841
Debt Proceeds	2,155	-	2,155	-	-	-	2,155
TOTAL	\$ 2,996	\$ -	\$ 2,996	\$ -	\$ -	\$ -	\$ 2,996

FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT

The Water Utility continues to make improvements to the water storage facilities. Future maintenance needs for this new reservoir will be funded from water funds.

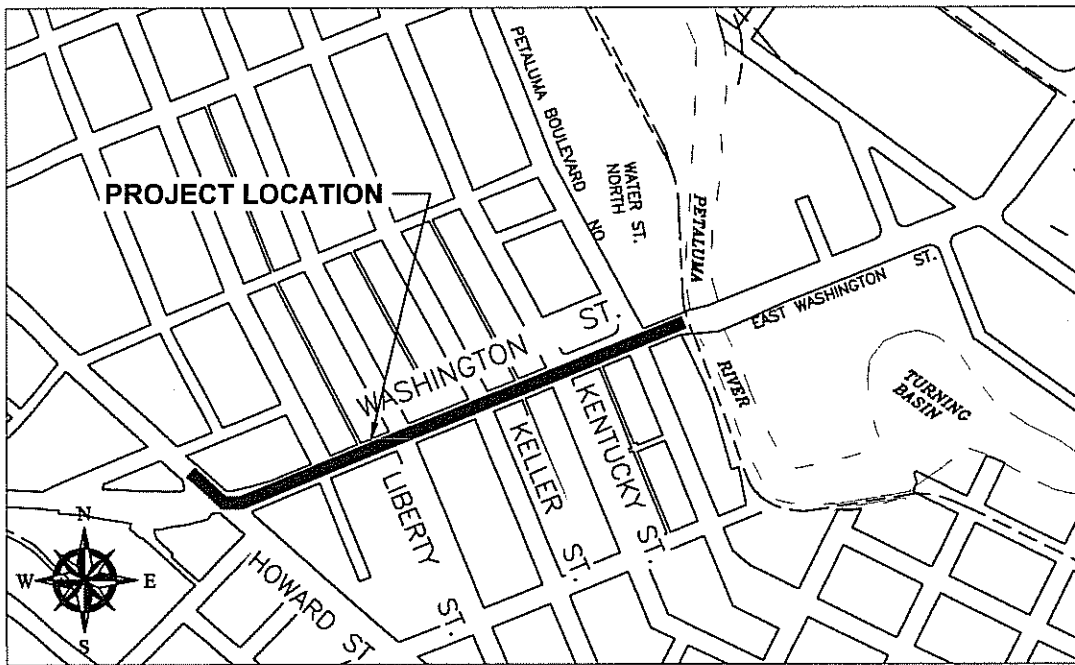
CALCULATION OF FUTURE SAVINGS

Additional storage volume at this location will allow for improved service and more efficient operation of the water utility.

Project Title: E. Washington Street Water Main Replacement

Project #: C00501008

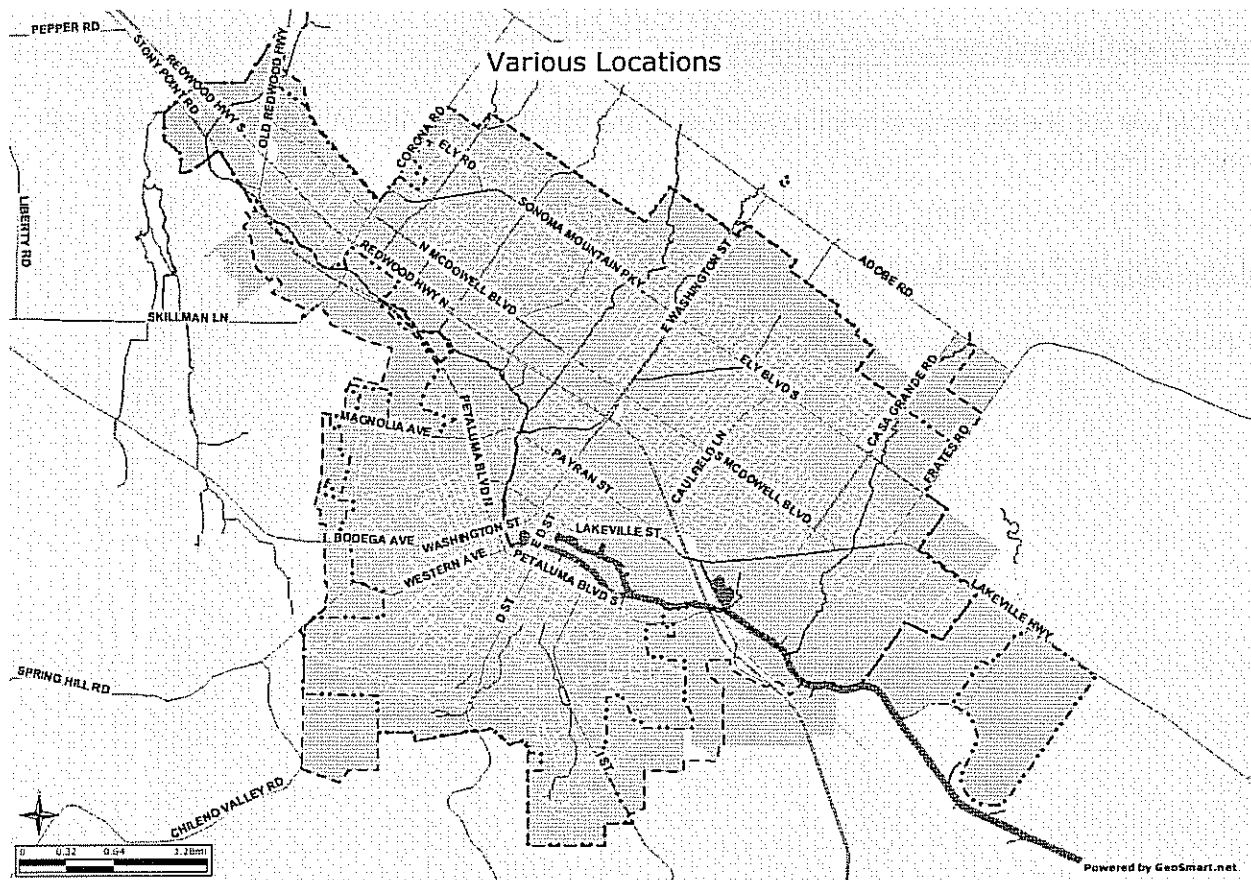
This project will replace the existing 8-inch and 10-inch ACP water mains in Washington Street from Water Street to Howard Street with a new 16" water transition main, water services and fire hydrants. This project also includes rehabilitating the existing 12-inch clay sanitary sewer main using a trenchless "cured-in-place-pipe" (CIPP) technology. The costs of the sewer main rehabilitation will be reimbursed from Wastewater Enterprise Funds. The existing utilities are over 70 years old, are in poor condition, and need to be upgraded. This project will precede a street reconstruction project.



Project Title: Water Main Replacements 2009 Various

Project #: C67400901

This project is part of an ongoing effort to maintain levels of water service by preserving and improving infrastructure, replacing water mains as necessary and improving water transmission facilities. This project replaces old, deteriorated, and undersized water mains throughout the city with new water mains, water services and fire hydrants to reduce maintenance costs and to improve flow. Locations will be determined based on condition of the water mains and in coordination with planned road improvement projects.



Water Main Replacements 2009 Various C67400901
 Fund 6700.67999

	Prior Years	08-09	Total Appro. thru 08-09	09-10	10-11	Future Yrs	Est. Total
USES (dollars in \$000)							
54110 Design	\$ -	\$ 65	\$ 65	\$ -	\$ -	\$ -	\$ 65
54151 Construction Contracts	-	550	550	-	-	-	550
57310 Contingency	-	55	55	-	-	-	55
TOTAL	<u>\$ -</u>	<u>\$ 670</u>	<u>\$ 670</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 670</u>
 SOURCES (dollars in \$000)							
Water Operating	\$ -	\$ 670	\$ 670	\$ -	\$ -	\$ -	\$ 670
TOTAL	<u>\$ -</u>	<u>\$ 670</u>	<u>\$ 670</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 670</u>

FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT

Maintenance for this water main will continue to be funded from the Water Enterprise Fund.

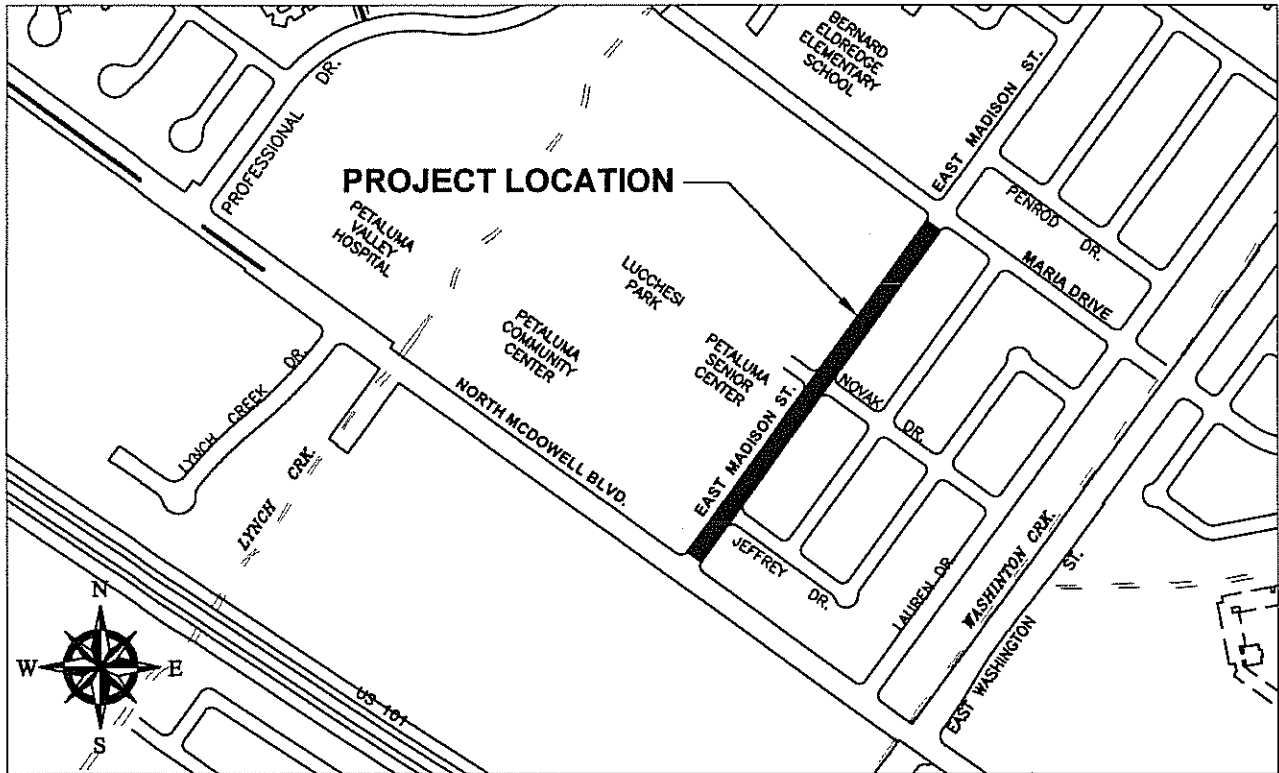
CALCULATION OF FUTURE SAVINGS

This project will reduce maintenance costs.

Project Title: E. Madison Street Water Main Replacement

Project #: C67400902

This project will replace the old, deteriorated, and undersized 6-inch ACP water main in East Madison from McDowell Boulevard to Maria Drive with a new 10-inch water main, water services and fire hydrants. The existing main is over 50 years old, is located behind the sidewalk and is very shallow and experiences frequent maintenance calls. This project will precede a proposed street reconstruction project.



E. Madison St. Water Main Replacement C67400902
 Fund 6700.67999

	<u>Prior</u>	<u>08-09</u>	<u>Total Appro.</u>	<u>09-10</u>	<u>10-11</u>	<u>Future Yrs</u>	<u>Est.</u>
	<u>Years</u>		<u>thru 08-09</u>				<u>Total</u>
USES (dollars in \$000)							
54110 Design	\$ -	\$ 16	\$ 16	\$ -	\$ -	\$ -	\$ 16
54151 Construction Contracts	-	85	85	300	-	-	385
57310 Contingency	-	9	9	30	-	-	39
TOTAL	\$ -	\$ 110	\$ 110	\$ 330	\$ -	\$ -	\$ 440
SOURCES (dollars in \$000)							
Water Operating	\$ -	\$ 110	\$ 110	\$ 330	\$ -	\$ -	\$ 440
TOTAL	\$ -	\$ 110	\$ 110	\$ 330	\$ -	\$ -	\$ 440

FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT

Maintenance for this water main will continue to be funded from the Water Enterprise Fund.

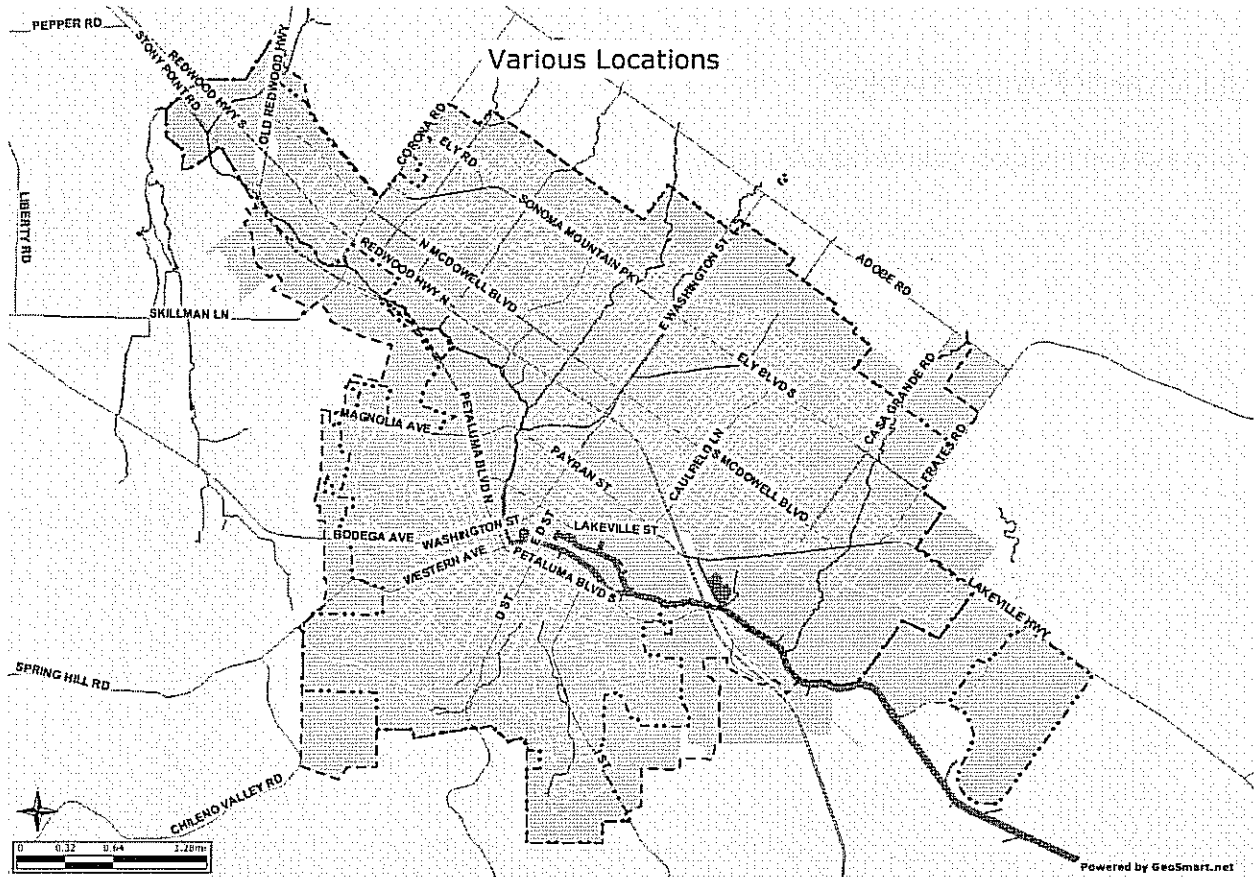
CALCULATION OF FUTURE SAVINGS

This project will reduce maintenance costs.

Project Title: Automatic Meter Read Replacement

Project #: C67500903

The City currently issues bi-monthly water bills based on water meters which are manually read every 60 days. This project includes replacement of the City's manual read water meters with new automatic read water meters which are fitted with radio transmitting devices that allow the meters to be read remotely. Automatic Meter Read (AMR) technology offers many benefits, including support of monthly billing, timely identification of leaks, which reduces costs for adjustments and unused water, improved accuracy, which reduces the number of re-reads and work orders, lower labor costs, improved customer service and satisfaction, improved worker safety, and is unobtrusive to the customer. Approximately 1,200 of the City's 19,000 meters are AMR, mostly because they have been required in new developments. This project will continue this trend. In FY 08-09, a further analysis of the cost/benefits of an enhanced AMR meter replacement program will be completed. If the results are favorable, a pilot program will be initiated in FY 08-09, followed by more replacements in the following fiscal years.



Automatic Meter Read Replacement Fund	C67500903 6700.67999						
	<u>Prior</u>		<u>Total Appro.</u>				<u>Est.</u>
	<u>Years</u>	<u>08-09</u>	<u>thru 08-09</u>	<u>09-10</u>	<u>10-11</u>	<u>Future Yrs</u>	<u>Total</u>
USES (dollars in \$000)							
54110 Design	\$ -	\$ 100	\$ 100	\$ 50	\$ 50	\$ 50	\$ 250
54151 Construction Contracts	-	500	500	500	1,000	1,000	3,000
TOTAL	<u>\$ -</u>	<u>\$ 600</u>	<u>\$ 600</u>	<u>\$ 550</u>	<u>\$ 1,050</u>	<u>\$ 1,050</u>	<u>\$ 3,250</u>
 SOURCES (dollars in \$000)							
Debt Proceeds	\$ -	\$ 600	\$ 600	\$ 550	\$ 1,050	\$ 1,050	\$ 3,250
TOTAL	<u>\$ -</u>	<u>\$ 600</u>	<u>\$ 600</u>	<u>\$ 550</u>	<u>\$ 1,050</u>	<u>\$ 1,050</u>	<u>\$ 3,250</u>

FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT

Water meters are replaced based on a 10 – 15 year life cycle.

CALCULATION OF FUTURE SAVINGS

Depending on the amount of time taken to replace the water meters, the payback is estimated at 3 – 7 years.

