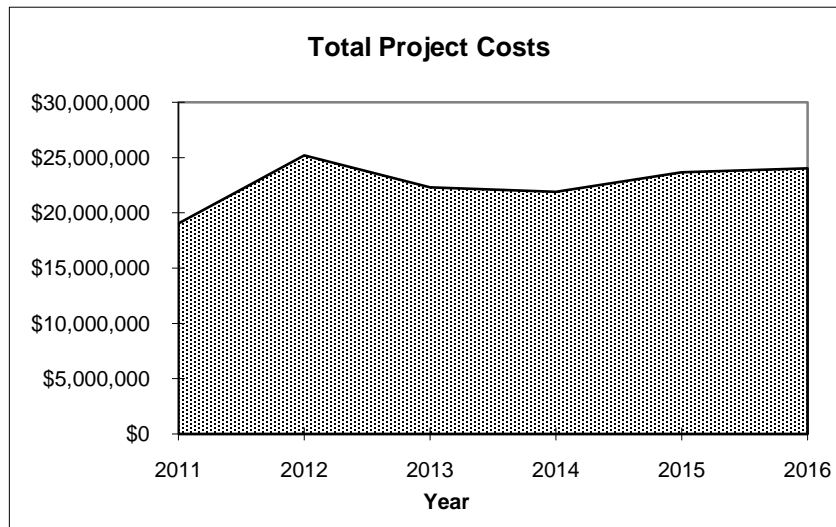


2011 Capital Budget Capital Improvement Program

Agency Name: **Water Utility**

Agency Number: **64**

Project Name	Capital Budget		Future Year Estimates			
	2011	2012	2013	2014	2015	2016
1 Lead Service Replacements	\$ 100,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2 Meter Program	50,000	50,000	375,000	383,000	391,000	399,000
3 Water Mains - Replacements	7,310,000	7,566,000	7,869,000	8,079,000	8,402,000	8,822,000
4 Water Mains - New	788,000	835,000	893,000	964,000	1,051,000	1,156,000
5 SCADA System Upgrade	30,000	32,000	34,000	36,000	38,000	250,000
6 Zone 4 Fire Flow Supply Augmentation	953,000	2,929,000	0	0	1,217,000	0
7 Arbor Hills Supp. Fire Flow Supply	1,016,500	0	750,000	600,000	0	0
8 East Side Water Supply Project	399,000	3,456,000	4,589,000	4,385,000	1,177,000	1,303,000
9 Pressure Zone 9 Storage	0	0	53,000	468,000	2,631,000	0
10 Pressure Zone 7 & 8 Supp. Supply	380,000	0	638,000	258,000	3,424,000	0
11 Pump Station 220	0	0	0	55,000	92,000	1,225,000
12 Lakeview Reservoir-Reconstruction	50,000	175,000	2,664,000	900,000	0	0
13 Booster Pump Station 114	0	0	0	0	56,000	1,008,000
14 North End Supplemental Supply	0	52,000	130,000	658,000	296,000	3,917,000
15 Security Upgrades	191,000	199,000	207,000	215,000	224,000	233,000
16 System Wide Miscellaneous Projects	287,600	309,300	332,200	295,300	318,600	364,100
17 Paterson Street Building Remodel	0	35,000	1,606,000	4,080,000	300,000	0
18 Advanced Metering Infrastructure (AMI)	5,600,000	8,400,000	0	0	0	0
19 Booster Station 106 - Rebuild	50,000	120,000	1,772,000	0	1,000,000	0
20 Zone 11- Blackhawk Elevated Storage	0	0	0	55,000	164,200	2,376,200
21 Misc. Pump Station/PRV/Facility Proj.	1,831,200	1,036,000	392,000	468,200	2,884,000	2,969,100
Total	\$ 19,036,300	\$ 25,194,300	\$ 22,304,200	\$ 21,899,500	\$ 23,665,800	\$ 24,022,400



Capital Budget

Water Utility

Lead Service Replacements

Project No. 1 Acct. No. 810456

GO \$ 0
Other 100,000
\$ 100,000

Replace lead water service laterals required to meet federally mandated goals. The Utility received an extension to the original consent decree and the stipulation now requires that this project be concluded by January 2012, but because of the limitations of the construction season the work needs to be completed by November 2011.

Meter Program

Project No. 2 Acct. No. 810454

GO \$ 0
Other 50,000
\$ 50,000

Purchase and set new meters for residential customers. Periodic replacement and testing of water meters ranging in size from 5/8" to 10" in accordance with Public Service Commission of Wisconsin rules.

Water Mains - Replacements

Project No. 3 Acct. No. 810455

GO \$ 0
Other 7,310,000
\$ 7,310,000

Madison Water Utility has a planned system replacement and upgrade program that provides for annual main replacements. The Utility needs to replace over 400 miles of pipe in the next 40 years to renew the system. A planned annual increase in spending to accomplish this goal by 2050 will be continued.

Water Mains - New

Project No. 4 Acct. No. 810455

GO \$ 0
Other 788,000
\$ 788,000

Install new water mains to help strengthen the existing distribution system, improve pressures, improve fire protection, allow transfer of water from pressure zone to pressure zone, and serve the growing Madison area. Mains installed within this project will implement recommended improvements from the Utility's Master Plan that was adopted in 2006.

SCADA System Upgrade

Project No. 5 Acct. No. 810459

GO \$ 0
Other 30,000
\$ 30,000

The SCADA (Supervisory Control And Data Acquisition) System allows the Utility to remotely control and monitor wells, booster stations, and reservoirs from a central location. The upgrade was completed in 2010; these funds provide continuing improvements to system.

Zone 4 Fire Flow Supply Augmentation

Project No. 6 Acct. No. 810517

GO \$ 0
Other 953,000
\$ 953,000

The proposed well, pump station, and reservoir on the southeast side will provide a new source of water supply to improve service levels, system redundancy, and reliability to Pressure Zone 4. The Public Participation Process began in 2009; a site will be identified and purchased in 2011; a test well and production well will be drilled, as well as the design of the unit well, pump house, and reservoir in 2011; followed by the construction of the well, pump house, and reservoir in 2012. Pipeline work is scheduled for 2015. Other funding includes \$125,000 in reauthorized revenue bonds from 2010.

Arbor Hills Supp. Fire Flow Supply

Project No. 7 Acct. No. 810516

GO \$ 0
Other 1,016,500
\$ 1,016,500

This project will construct a booster pump station and pipeline to allow the transfer of water from Pressure Zone 6 to Pressure Zone 7 to improve hydraulics and defer the need for additional supply in Pressure Zone 7. A site for the pump station will be selected and purchased along with completion of the design of the booster station in 2011. Construction of the booster station is scheduled to begin in 2011 and is scheduled to be finished and in service in 2012. The pipeline improvements will be constructed in 2013 and 2014. Other funding includes \$885,000 in reauthorized revenue bonds from 2010.

East Side Water Supply Project Project No. **8** Acct. No. 810517

GO \$ 0
Other 399,000
\$ 399,000

This project is intended to combine four projects into one that will evaluate water demand needs, water quality issues, and long term planning for the near east side of Madison. A replacement for Well 3, water quality issues at Wells 7, 8, and 15, and regional supply needs will be evaluated with regard to current conservation and water use trends. Future funding will be used to address the issues that are identified in 2011 for these four wells.

Pressure Zone 9 Storage Project No. **9** Acct. No. 810516

GO \$ 0
Other 0
\$ 0

Construction of a 750,000 gallon elevated reservoir to serve Pressure Zone 9 in the southwest corner of the City. The Public Participation Process will begin in 2013, with property purchase and design anticipated in 2014 and construction in 2015.

Pressure Zone 7 & 8 Supp. Supply Project No. **10** Acct. No. 810517

GO \$ 0
Other 380,000
\$ 380,000

The well, pump station, and reservoir on the near west side will provide a new source of water supply to improve service levels, system redundancy, and reliability to Pressure Zones 7 and 8. The Public Participation Process began in 2009; property purchase and the drilling of a test well are scheduled in 2011; a production well is scheduled to be drilled in 2013; design of the pumphouse is scheduled in 2014; and construction of the well, pump house, and reservoir is scheduled in 2015. Other funding includes \$173,000 in reauthorized revenue bonds from 2010.

Pump Station 220 Project No. **11** Acct. No. 810516

GO \$ 0
Other 0
\$ 0

Construction of a dual zone pump station that will transfer water from Pressure Zone 9 to Pressure Zone 10. This will provide operational flexibility and reduce the need for expanded supply capacity. This project is scheduled to begin in 2014 and be completed in 2016.

Lakeview Reservoir-Reconstruction Project No. **12** Acct. No. 810516

GO \$ 0
Other 50,000
\$ 50,000

Construction of a two zone water storage reservoir to provide needed additional storage capacity for peak demand and fire flow reserves in Pressure Zones 5 and 6. This facility will also replace an aging elevated water reservoir in Pressure Zone 5. The Public Participation Process will begin in 2011; design will be done in 2011; construction of the reservoir will be completed in 2013; and water main improvements are scheduled in 2013 and 2014. Other funding includes \$50,000 in reauthorized revenue bonds from 2010.

Booster Pump Station 114 Project No. **13** Acct. No. 810516

GO \$ 0
Other 0
\$ 0

Construction of a dual zone pump station that will transfer water from the Main Pressure Zone to Pressure Zones 7 and 8. This will provide operational flexibility and fully utilize existing Utility facilities. This project is scheduled to begin in 2015 and be completed in 2017.

North End Supplemental Supply Project No. **14** Acct. No. 810517

GO \$ 0
Other 0
\$ 0

Construction of a well, reservoir, and pump station to provide additional drinking water supply to the extreme north end of the main pressure zone. The Public Participation Plan is scheduled to begin in 2012; the drilling of a test well in 2013; the drilling of a production well in 2014; design of the pumphouse and reservoir in 2015; and construction of unit well, reservoir, and pump station in 2016.

Security UpgradesProject No. **15** Acct. No. 810458

GO \$ 0
 Other 191,000
\$ 191,000

Miscellaneous projects to improve security and monitoring of the Utility's remote facilities. These projects could include, but are not necessarily limited to, video camera surveillance, improved doors, improved hatches, fencing, alarm systems, and other online monitoring devices.

System Wide Miscellaneous ProjectsProject No. **16** Acct. No. 810458

GO \$ 0
 Other 287,600
\$ 287,600

Miscellaneous projects to repair and improve Utility facilities. These projects could include, but are not necessarily limited to, lighting projects, roofing, painting, and other upgrades to the Utility's 32 remote sites and to the administration and operations centers.

Paterson Street Building RemodelProject No. **17** Acct. No. 0

GO \$ 0
 Other 0
\$ 0

Major renovation of the Water Utility field operations center at 110 S. Paterson Street, including the demolition and rebuilding of the vehicle maintenance facility. This project is scheduled to begin construction in 2014 and be finished and in service in early 2015.

Advanced Metering Infrastructure (AMI)Project No. **18** Acct. No. 810664

GO \$ 0
 Other 5,600,000
\$ 5,600,000

Installation of an automated meter reading system to the Utility's 65,000 accounts. This will allow customers to closely monitor and control water use and thereby conserve water. The Utility will be able to implement conservation water rates, monitor the system for leaks, evaluate and optimize system operation, and improve customer service as a result of the AMI system. An additional \$8,400,000 will be needed in 2012.

Booster Station 106 - RebuildProject No. **19** Acct. No. 810516

GO \$ 0
 Other 50,000
\$ 50,000

This project will replace the 80 year old booster pump station at Glenway. The booster station moves water from Pressure Zone 6 to Pressure Zone 7 and provides a necessary source of water to the northeast corner of Pressure Zone 7. Other funding includes \$50,000 in reauthorized revenue bonds from 2010.

Zone 11- Blackhawk Elevated StorageProject No. **20** Acct. No. 810516

GO \$ 0
 Other 0
\$ 0

Construction of a one million gallon elevated storage reservoir on the far west side of the service area to serve developing areas and provide fire protection to Pressure Zone 11. This project is projected to begin in 2014 and be completed in 2016.

Misc. Pump Station/PRV/Facility Proj.Project No. **21** Acct. No. 810458

GO \$ 0
 Other 1,831,200
\$ 1,831,200

Various pump station, pressure reducing valve (PVR) stations, and well improvement and upgrade projects recommended by the Water Utility Master Plan. 2011 projects include upgrading the booster pumps at Unit Well #20, installing a PRV station on Vondron Road, repairing/restoring/replacing the water tower on Prairie Road that was damaged by fire in 2010, and installing a generator at Unit Well #26. Other funding includes \$125,000 in reauthorized revenue bonds from 2010.

All funding is from Water Utility resources.

**2011
Capital Budget
Summary**

Agency Name: Water Utility

Agency Number: 64

Project Name	Agency Request	Executive	Adopted		
			G.O. Debt	Other Funding	Total
1 Lead Service Replacements	\$ 100,000	\$ 100,000	\$ 0	\$ 100,000	\$ 100,000
2 Meter Program	50,000	50,000	0	50,000	50,000
3 Water Mains - Replacements	7,310,000	7,310,000	0	7,310,000	7,310,000
4 Water Mains - New	788,000	788,000	0	788,000	788,000
5 SCADA System Upgrade	30,000	30,000	0	30,000	30,000
6 Zone 4 Fire Flow Supply Augmentation	953,000	953,000	0	953,000	953,000
7 Arbor Hills Supp. Fire Flow Supply	1,016,500	1,016,500	0	1,016,500	1,016,500
8 East Side Water Supply Project	399,000	399,000	0	399,000	399,000
9 Pressure Zone 9 Storage	0	0	0	0	0
10 Pressure Zone 7 & 8 Supp. Supply	380,000	380,000	0	380,000	380,000
11 Pump Station 220	0	0	0	0	0
12 Lakeview Reservoir-Reconstruction	50,000	50,000	0	50,000	50,000
13 Booster Pump Station 114	0	0	0	0	0
14 North End Supplemental Supply	0	0	0	0	0
15 Security Upgrades	191,000	191,000	0	191,000	191,000
16 System Wide Miscellaneous Projects	287,600	287,600	0	287,600	287,600
17 Paterson Street Building Remodel	0	0	0	0	0
18 Advanced Metering Infrastructure (AMI)	5,829,000	0	0	5,600,000	5,600,000
19 Booster Station 106 - Rebuild	50,000	50,000	0	50,000	50,000
20 Zone 11- Blackhawk Elevated Storage	0	0	0	0	0
21 Misc. Pump Station/PRV/Facility Proj.	1,831,200	1,831,200	0	1,831,200	1,831,200
Total	\$ 19,265,300	\$ 13,436,300	\$ 0	\$ 19,036,300	\$ 19,036,300