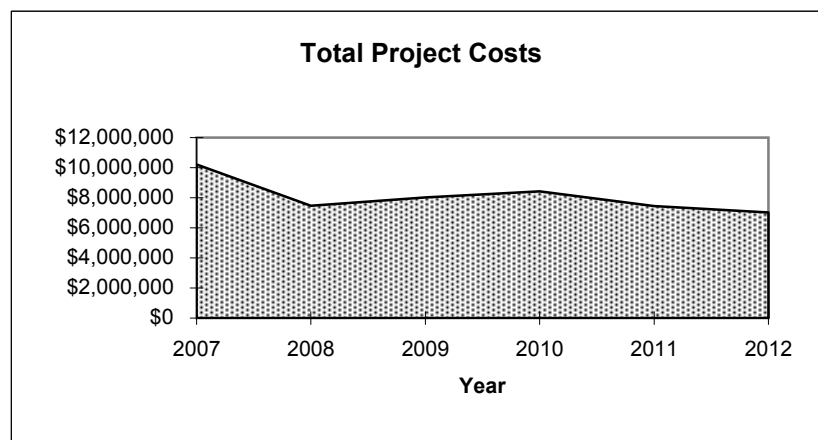


2007 Capital Budget Capital Improvement Program

Agency Name: **Stormwater Utility**

Agency Number: **56**

Project Name	Capital Budget	Future Year Estimates				
	2007	2008	2009	2010	2011	2012
1 Storm Sewer with Street Projects	\$ 2,757,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000
2 Greenway Improvements	250,000	250,000	250,000	250,000	250,000	250,000
3 EPA/NPDES Permit	93,000	93,000	93,000	93,000	93,000	93,000
4 Stormwater Basins	430,000	275,000	300,000	325,000	350,000	400,000
5 Felland Area Drainage Extension	318,500	0	0	0	0	0
6 Storm Box Replacement/Cleaning	800,000	200,000	200,000	200,000	200,000	200,000
7 Major Roadway Culvert Crossings	75,000	75,000	75,000	75,000	75,000	75,000
8 Assessable Drainage Improvements	125,000	125,000	125,000	125,000	125,000	125,000
9 Shorelines	550,000	250,000	250,000	250,000	250,000	250,000
10 Local Drainage Problems	75,000	75,000	75,000	75,000	75,000	75,000
11 Madison-Sun Prairie Detention Pond	50,000	0	0	0	0	0
12 Hoard Area Sewer Replacements	0	100,000	0	100,000	0	0
13 Upper Badger Mill Creek Watershed	355,000	500,000	500,000	500,000	0	0
14 Inter-Municipal Storm Management	650,000	575,000	600,000	625,000	650,000	675,000
15 Wingra Creek Corridor	362,500	250,000	250,000	0	0	0
16 Lake Wingra Dam Rehabilitation	30,000	310,000	0	0	0	0
17 Willow Creek Relief Storm, Ph. 3	150,000	0	0	0	0	1,500,000
18 Starkweather Creek Watershed	360,000	175,000	175,000	175,000	175,000	175,000
19 Street Cleaning Equipment	435,000	570,000	290,000	290,000	435,000	290,000
20 1000 Rain Gardens	50,000	50,000	50,000	50,000	50,000	50,000
21 Lower Badger Mill Creek	1,765,982	655,669	1,824,561	2,321,596	1,732,002	0
22 Urban Water Quality Enhancement	210,000	120,000	120,000	120,000	120,000	0
23 Replacement Vehicles & Equipment	250,000	262,500	275,000	287,500	300,000	312,500
24 ESB Garage - Energy Efficiency	9,000	0	0	0	0	0
25 Warning Sirens	60,000	60,000	60,000	60,000	60,000	60,000
Total	\$ 10,210,982	\$ 7,471,169	\$ 8,012,561	\$ 8,422,096	\$ 7,440,002	\$ 7,030,500

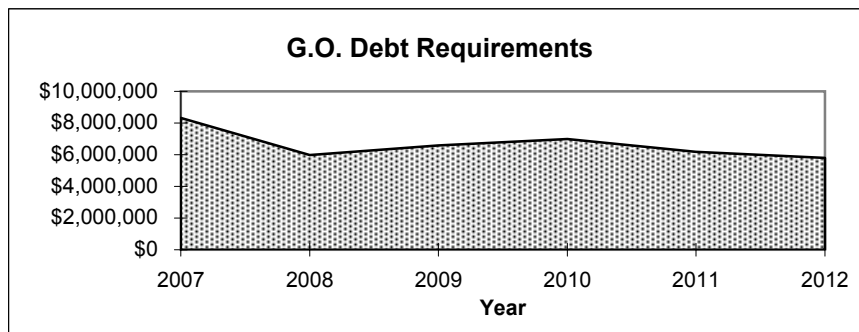


**2007
Capital Budget
Expenditure Categories and Funding Sources**

Agency Name: **Stormwater Utility**

Agency No.: 56

All Projects	Capital Budget	Future Year Estimates				
	2007	2008	2009	2010	2011	2012
Expenditures:						
Purchased Services	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Materials & Supplies	0	0	0	0	0	0
Inter-Agency Charges	0	135,000	0	0	0	0
Inter-Fund Transf. Out	0	0	0	0	0	0
Professional Fees	136,012	366,169	707,651	137,500	93,000	93,000
Land & Land Improve	9,320,970	6,212,500	6,679,910	7,647,096	6,552,002	6,275,000
Building & Bldg Improve	9,000	0	0	0	0	0
Equipment and Vehicles	745,000	757,500	625,000	637,500	795,000	662,500
Other	0	0	0	0	0	0
Total Project Costs	\$ 10,210,982	\$ 7,471,169	\$ 8,012,561	\$ 8,422,096	\$ 7,440,002	\$ 7,030,500
Funding Sources:						
Federal Sources	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
State Sources	0	0	0	0	0	0
County Contributions	20,000	20,000	20,000	20,000	20,000	0
Private Contributions	0	0	0	0	0	0
Revenue Bonds	0	0	0	0	0	0
Special Assessments	125,000	125,000	125,000	125,000	125,000	125,000
TIF	500,000	0	0	0	0	0
Carry-Forward Applied	0	0	0	0	0	0
Reserves Applied	1,000,000	1,042,500	1,000,000	1,000,000	1,000,000	1,000,000
Other	250,770	305,000	285,000	285,000	118,000	98,000
Total Other Sources	\$ 1,895,770	\$ 1,492,500	\$ 1,430,000	\$ 1,430,000	\$ 1,263,000	\$ 1,223,000
G.O. Debt	\$ 8,315,212	\$ 5,978,669	\$ 6,582,561	\$ 6,992,096	\$ 6,177,002	\$ 5,807,500



Capital Budget

Stormwater Utility

Storm Sewer with Street Projects Project No. 1 Acct. No. 810381

GO	\$	2,661,000	This project is for the design and installation of storm sewer systems that 'accompany' street projects. This is a continuing program to provide mainline storm sewer improvements, replacements, and rehabilitation in conjunction with City streets being reconstructed and resurfaced. Additionally, this project consists of installing various conduits to serve streets being improved with curb and gutter and bituminous pavement, as directed by the Common Council (Major Streets). This project also funds the annual 'Waterway Repairs' Contract that is used for small drainage improvements. Other funding is from reserves applied. G.O. borrowing includes \$257,000 reauthorized from 2006.
Other		<u>96,000</u>	
	\$	<u>2,757,000</u>	

Greenway Improvements Project No. 2 Acct. No. 810382

GO	\$	125,000	This project finances the capitalized cost to rehabilitate and repair drainage channels or greenways that are used to transport stormwater runoff including land acquisition, landscaping, and the maintenance of trees. In 2007, the Utility proposes to repair the greenway in Westmorland Park (Lake Wingra Watershed) in order to eliminate erosion. This item includes an annual 'Restoration / Landscaping' contract that makes needed repairs to open drainageways. Removal of the concrete cunette and conversion of the Eastmorland Park drainageway to a natural greenway is also a potential project. Other funding is from reserves applied.
Other		<u>125,000</u>	
	\$	<u>250,000</u>	

EPA/NPDES Permit Project No. 3 Acct. No. 810383

GO	\$	0	This project funds the work necessary to maintain the City's U.S. EPA National Discharge Elimination System Permit. Work includes monitoring, modeling, Information and Educational Outreach, and annual reporting. Portions of the costs are reimbursed by municipal permit partners. Other funding is from reserves applied (\$35,000) and Municipal Capital (\$58,000).
Other		<u>93,000</u>	
	\$	<u>93,000</u>	

Stormwater Basins Project No. 4 Acct. No. 810384

GO	\$	430,000	This project funds capitalized rehabilitation and repair of the Utility's stormwater detention/retention basins. The primary specific project is the construction of a new detention basin in Owen Park adjacent to Jetty Drive. Blackhawk Pond adjacent to Hidden Cave remains a candidate for occasional repair work and redesign of the basin in Kennedy Park has been requested. Also included in this project is the work of sediment removal necessary to maintain efficient stormwater treatment. Potential projects include continuing work on Kettle Pond adjacent to Old Middleton Road, the Strickers Pond Forebay, Acewood Retention Basin, Morningside Retention Basin, and Warner Park Lagoon outlet and / or inlet channels. Each project will require extensive and time consuming permitting by the regulatory authorities. G.O. borrowing includes \$180,000 reauthorized from 2006.
Other		<u>0</u>	
	\$	<u>430,000</u>	

Felland Area Drainage Extension Project No. **5** Acct. No. 810548

GO \$ 318,500
Other 0
\$ 318,500

This project shall acquire necessary easements and extend interim greenway drainage service to the North of the Felland Neighborhood, and to Nelson Road. This shall provide service to this developing area North of Burke Road and both East and West of Felland. It is anticipated that an Impact Fee District shall be established to recover the costs of this project. The cost recovery shall occur over time as development occurs with pro-rata payments indexed to the Construction Cost Index. The land acquisitions and construction shall be linked with extension of Public Sanitary Sewer to also serve the area (budgeted separately). The design and acquisition process began in 2006. Permitting and construction are anticipated for 2007. Note: this item covers the storm portion of the project only - complimentary sanitary sewer work shall also occur under a separate budget item. G.O. debt includes \$168,500 reauthorized from 2006.

Storm Box Replacement/Cleaning Project No. **6** Acct. No. 810385

GO \$ 300,000
Other 500,000
\$ 800,000

This is a continuing program to systematically replace aged and failing storm sewer box culverts. Many areas have been identified from emergency repairs and previous problems. Additionally, many storm boxes that are structurally sound are in need of maintenance in the form of cleaning. Sediment has accumulated in the storm sewers, cutting conveyance efficiencies by up to 50% or more. Many segments of storm sewer have been identified as needing this cleaning and maintenance. This item shall fund either a cleaning project or a replacement project, or a combination of both, depending on priorities and available funding. The top priority for 2007 is replacement of the Blount Street box culvert (E. Washington to Williamson) in conjunction with street work on that segment of street. Also, lengthy segments are included for Bedford Street. This item may also include relining of major storm conduits such as the failing storm sewer culvert in the Manitou Way median. Other funding is from TID #28.

Major Roadway Culvert Crossings Project No. **7** Acct. No. 810386

GO \$ 75,000
Other 0
\$ 75,000

This project is for major (larger size) stormwater culvert crossings under roadways in areas of new development or in areas impacted by new development. When the crossing is entirely within a newly platted street, it is proposed that the City pay only for the proportion of the total project cost that can be attributed to a culvert end area in excess of 64 square feet. Actual expenditures are dependent on developments approved by the City. One anticipated project is a large culvert in conjunction with the street crossing of Yesterday Drive.

Assessable Drainage Improvements Project No. **8** Acct. No. 810387

GO \$ 0
Other 125,000
\$ 125,000

This project is for major additions to the stormwater management system in developing areas. The work includes wetland and floodplain surveys, planning, and permitting. Potential larger projects include subsequent phases of the Center for Industry & Commerce Plat, Interstate Commerce Park Plat, and possibly the Pumpkin Hollow Drainageway extension. Other funding is from special assessments.

Shorelines Project No. **9** Acct. No. 810388

GO \$ 550,000
Other 0
\$ 550,000

The Shoreline Improvement Program is for large-scale improvements to the shoreline of lakes, creeks, and rivers. Funding under this item was increased in 2001 to allow for additional major repair work as a result of the Flood of 2000 and the effects of deferred maintenance. Projects scheduled for permitting and construction in 2007 are the Hudson Park and Beach shoreline in conjunction with the Parks Project to improve access and use of the beach and park areas, and if funding allows, potential work at BB Clarke shoreline. G.O. borrowing includes \$300,000 reauthorized from 2006.

Local Drainage ProblemsProject No. **10** Acct. No. 810389

GO \$ 75,000
 Other 0
\$ 75,000

City Engineering maintains a database of over 200 drainage problems and plans for solutions as time and money allows. This budget item would continue to implement solutions to the drainage problems on a prioritized basis, as determined by the City Engineer and the Common Council. Portions of these projects can be assessed to benefiting properties. Potential projects for 2007 include improvements to or reroute of the storm discharge through the Heritage Sanctuary.

Madison-Sun Prairie Detention PondProject No. **11** Acct. No. 810549

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

In 1996, the Cities of Madison and Sun Prairie entered into an agreement to purchase open space land separating the two municipalities in the vicinity of Hoepker Road and USH 151, and to construct a regional stormwater retention facility. A substantial portion of the facility construction was completed in 2001 under the 2000 budget. Additional work in 2003 / 2004 included the planting of wetland plants in accordance with the environmental permit requirements. The last remaining item consists of the construction of the ultimate outlet control structure, which has been delayed for coordination with the proposed DOT highway interchange project at this location, adjacent to the stormwater facility. The DOT construction is now being completed allowing final outlet structure construction in 2007. This final phase will conclude this project.

Hoard Area Sewer ReplacementsProject No. **12** Acct. No. 810390

GO \$ 0
 Other 0
\$ 0

In 1993 and again in 1996, residents in this area (several blocks centering around Hoard at Kedzie) suffered sanitary sewerage flooding into their basements. Subsequently, the City performed a detailed study to seek solutions to lessen the chance of future flooding. Implementation for this area began with the replacement of the sewer interceptor on Johnson Street in 1997. Phase 4 includes storm sewer for Johnson Street from North Lawn to East Washington, East Washington from Johnson to Oak, Oak from Washington to Hoard, and Hoard from Oak to Street End. Storm sewers will be included in the 2007 Phase of East Washington Avenue for the first 2 segments above. The budget anticipates additional work in 2008 and 2010.

Upper Badger Mill Creek WatershedProject No. **13** Acct. No. 810391

GO \$ 222,230
 Other 132,770
\$ 355,000

This is a phased project including the survey, design, permitting, acquisition of lands, and construction to create a regional storm water management system of greenways, retention ponds, wetlands, and environmental corridor buffer lands within this watershed. Work in 2007 anticipates the design and construction of greenway improvements from Raymond Road to CTH "M" within lands owned by Dane County Parks. Also, acquisition of an easement by dedication from the University Board of Regents is a necessary part of the design of the greenway section from Mid Town Road to CTH M. The Utility's portion of the cost of the work is estimated at 62.6%, the existing development within the Watershed that benefits from the improvements. The remaining costs will be recovered from impact fees and special assessments. Other funding is from impact fees.

Inter-Municipal Storm Management Project No. **14** Acct. No. 810392

GO \$ 650,000 This project is for the funding of cooperative projects with neighboring municipalities. The
Other 0 work is detailed in inter-governmental agreements, which establish the level of cost
\$ 650,000 participation. Primarily this item shall fund \$500,000 per year for storm water management
improvements within the Arboretum and within watersheds draining to the Arboretum, in
anticipation of a joint agreement with the University for major improvements of this type over
a 10 to 15 year period. An amount of \$75,000 is reserved for other potential projects that
arise. Potential projects include the Lake Edge Park Sediment Removal Project (City of
Monona); Rambling Acres Pipe/Greenway (Town of Blooming Grove); Lake Forest Detention
Basin (Town of Madison); the Triangle Street Outlet (Village of McFarland); Severson Drive
(Town of Blooming Grove); Cross Hill Drive East end (Town of Burke). G.O. borrowing
includes \$100,000 reauthorized from 2006.

Wingra Creek Corridor Project No. **15** Acct. No. 810268

GO \$ 362,500 The Wingra Creek Corridor is in need of shoreline and embankment work to enhance
Other 0 stormwater conveyance and water quality as well as provide an enhanced corridor for
\$ 362,500 pedestrian usage. Planning, design, and permitting began in 2003, with implementation
phases proposed over several years. General Obligation borrowing includes \$112,500
reauthorized from 2006.

Lake Wingra Dam Rehabilitation Project No. **16** Acct. No. 810513

GO \$ 30,000 The Wisconsin Department of Natural Resources has formally issued orders to repair the
Other 0 Dam as a result of unacceptable deterioration found upon their last inspection of the Dam.
\$ 30,000 The response to those orders, and the schedule for specific portions of compliance, has been
negotiated and agreed to with the WDNR . This item shall begin the process to comply with
the orders. It is anticipated that Dam Failure Analysis/Spillway Capacity report shall be
completed in 2006. Repair design plans, specifications, and permitting would follow in 2007,
with construction repairs in 2008. The estimated cost of the dam replacement has not been
established.

Willow Creek Relief Storm, Ph. 3 Project No. **17** Acct. No. 810514

GO \$ 150,000 This is a continuing flood reduction project that began in 2003 ahead of the COGEN plant
Other 0 construction. The project in 2003 constructed approximately 300 feet of storm sewer box
\$ 150,000 along the North side of the railroad tracks from Willow Creek to the West (South of the then
proposed COGEN facility). Phase 2 (2005) connects to the end of this box and bores under
Campus Drive with a 96" RCP where the new pipe is to connect to the existing box between
Octopus Car Wash and Don The Muffler Man on University Avenue. This phase (design
2006, construct 2007) shall lower flood elevations at the intersection of University and
Highland Avenue by approximately 1.25' and provide property protection meeting or slightly
exceeding the 10 year standard afforded in other areas of the City. Future phases may be
considered to reduce the flooding of the rail corridor west of Highland Avenue, should
passenger rail be considered.

Starkweather Creek WatershedProject No. **18** Acct. No. 810394

GO \$ 360,000
 Other 0
\$ 360,000

In 2007, the shoreline of the creek shall be improved from Darbo Drive to Milwaukee Street. This work shall be coordinated with the E. Washington Avenue reconstruction and the construction of pedestrian/bike bridges over E. Washington and Aberg adjacent to the creek in 2007. Future projects include the evaluation of the capacity of soils and availability of locations in the watershed to infiltrate rainwater and the formulation of a strategy to maximize infiltration; restoration of the wetland in O.B. Sherry park; and the restoration of eroded stream banks with bioengineered slopes. These projects will be performed in conjunction with the construction of a hiking and biking trail system along both branches of Starkweather Creek and initiation of a public education campaign at Olbrich Gardens regarding water quality in an urban watershed, with adjacent Starkweather Creek as a case study.

Street Cleaning EquipmentProject No. **19** Acct. No. 810393

GO \$ 0
 Other 435,000
\$ 435,000

This item is for the replacement of three mechanical street sweeping machines. Sweepers require a high level of maintenance and are recommended for replacement on a 5 year cycle. Replacement cost is presently approximately \$145,000, less \$20,000 salvage value of the old equipment. In 2007, planning will occur to expand weekly sweeping to Aldermanic Districts 4 and that portion of Aldermanic District 2 which is not being swept on a weekly basis. This budget assumes that weekly sweeping will commence in those areas in the spring of 2008. One additional vacuum sweeper would need to be added in 2008. The budget for signs is \$135,000 to support this initiative (again, 2008). Other funding consists of \$375,000 in reserves applied, and \$60,000 in property sales.

1000 Rain GardensProject No. **20** Acct. No. 810515

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

The City of Madison promotes the construction of public and private rain gardens. Emphasis is on the University/Midvale Watershed, which drains to Lake Mendota. This budget will continue efforts to discern opportunities to retrofit or build new rain gardens within public utility parcels, medians within rights of way, and parklands, for the purpose of infiltrating storm water from the roofs of buildings. Biological treatment practices will be employed to treat stormwater from parking lots and drives. Other funding consists of reserves applied.

Lower Badger Mill CreekProject No. **21** Acct. No. 810550

GO \$ 1,765,982
 Other 0
\$ 1,765,982

This project shall provide for design, installation, and acquisition of lands where needed, all for implementation of a regional storm water management plan for the Lower Badger Mill Creek Watershed. Development within this watershed is contingent upon implementation of this plan. Full implementation shall occur over 5 to 10 years, and shall be primarily funded by special assessments or impact fees to lands within the watershed, levied at the time of development (and indexed for inflation). The 2006 phase began the acquisition of greenway lands for an interim drainageway. The 2007 phase shall construct this greenway and pertinent culverts, in conjunction with extension of sanitary sewer service (separately budgeted). G.O. borrowing includes \$986,000 reauthorized from 2006.

Urban Water Quality Enhancement Project No. **22** Acct. No. 810551

GO \$ 190,000 This project shall cover modest projects that enhance urban storm water quality, where more
Other 20,000 traditional methods are precluded from use. This project may include: purchase of 5 to 7
\$ 210,000 "solar bees" for Monona Bay or City retention ponds (dependent on results of 2 year trial);
Urban catchment devices (for collection of sediment and / or debris) at priority locations or
locations of opportunity. Locations for 2007 shall be dependent upon the 2007 list for street
resurfacing or reconstruction. Another likely 2007 project would be a trial or continuing use of
a 'polymer sock' to treat retention ponds to promote faster and more efficient sedimentation.
Dane County has funded a grant program to assist with these types of installations. The City
obtained approximately \$35,000 in 2006. This budget anticipates a similar amount for 2007.
Other funding consists of payments from the County. G.O. debt includes \$130,000
reauthorized from 2006.

Replacement Vehicles & Equipment Project No. **23** Acct. No. 810323

GO \$ 0 This project is for the replacement of existing vehicles and equipment which have exceeded
Other 250,000 their useful life. It includes #1256 (2001 Ford Focus Station Wagon), #1851 (2000 Ford
\$ 250,000 Explorer), #2002 and #2003 (2002 GMC Sierra pick up trucks), #2098 (1999 Chevrolet
Silverado pick up truck), #2702 (2001 Chevrolet S10 4WD pick up truck), #2784 (1994 Ford 1
ton dump truck), #3910 (1994 Freightliner Tandem dump truck), and #3116 (2001 Vactor
Combination Sewer Cleaning Module mounted on Sterling LT9500 Chassis). Cost represents
Stormwater Utility portion only. Other funding consists of reserves applied.

ESB Garage - Energy Efficiency Project No. **24** Fund No. 810322

GO \$ 0 This project is to perform energy saving improvements to the Engineering Service Garage.
Other 9,000 Improvements include: replacement of existing High Pressure Sodium light fixtures with T-5
\$ 9,000 or Super T-8 high-bay fluorescent fixtures operated by occupancy sensors; and replacement
of exterior metal doors and frames. Cost represents Stormwater Utility portion only. Other
funding consists of reserves applied.

Warning Sirens Project No. **25** Acct. No. 810485

GO \$ 0 In 2005, the Stormwater Utility assumed the responsibility for the maintenance and expansion
Other 60,000 of Emergency Warning Sirens. A long range plan has been developed to increase the range
\$ 60,000 of the sirens and retire the smaller sirens with limited range. Other funding consists of
reserves applied.

Note: Unless otherwise specified, other funding is from Stormwater reserves applied.

**2007
Capital Budget
Summary**

Agency Name: Stormwater Utility

Agency Number: 56

Project Name	Agency Request	CIRC	Executive	Adopted		
				G.O. Debt	Other Funding	Total
1 Storm Sewer with Street Projects	\$ 2,500,000	\$ 2,500,000	\$ 2,757,000	\$ 2,661,000	\$ 96,000	\$ 2,757,000
2 Greenway Improvements	250,000	250,000	250,000	125,000	125,000	250,000
3 EPA/NPDES Permit	93,000	93,000	93,000	0	93,000	93,000
4 Stormwater Basins	250,000	250,000	430,000	430,000	0	430,000
5 Felland Area Drainage Extension	150,000	150,000	318,500	318,500	0	318,500
6 Storm Box Replacement/Cleaning	800,000	800,000	800,000	300,000	500,000	800,000
7 Major Roadway Culvert Crossings	75,000	75,000	75,000	75,000	0	75,000
8 Assessable Drainage Improvements	125,000	125,000	125,000	0	125,000	125,000
9 Shorelines	250,000	250,000	550,000	550,000	0	550,000
10 Local Drainage Problems	75,000	75,000	75,000	75,000	0	75,000
11 Madison-Sun Prairie Detention Pond	50,000	50,000	50,000	50,000	0	50,000
12 Hoard Area Sewer Replacements	0	0	0	0	0	0
13 Upper Badger Mill Creek Watershed	355,000	355,000	355,000	222,230	132,770	355,000
14 Inter-Municipal Storm Management	550,000	550,000	650,000	650,000	0	650,000
15 Wingra Creek Corridor	250,000	250,000	362,500	362,500	0	362,500
16 Lake Wingra Dam Rehabilitation	30,000	30,000	30,000	30,000	0	30,000
17 Willow Creek Relief Storm, Ph. 3	150,000	150,000	150,000	150,000	0	150,000
18 Starkweather Creek Watershed	360,000	360,000	360,000	360,000	0	360,000
19 Street Cleaning Equipment	435,000	435,000	435,000	0	435,000	435,000
20 1000 Rain Gardens	50,000	50,000	50,000	0	50,000	50,000
21 Lower Badger Mill Creek	779,982	779,982	1,765,982	1,765,982	0	1,765,982
22 Urban Water Quality Enhancement	80,000	80,000	210,000	190,000	20,000	210,000
23 Replacement Vehicles & Equipment	250,000	250,000	250,000	0	250,000	250,000
24 ESB Garage - Energy Efficiency	9,000	9,000	9,000	0	9,000	9,000
25 Warning Sirens	60,000	60,000	60,000	0	60,000	60,000
Total	<u>\$ 7,976,982</u>	<u>\$ 7,976,982</u>	<u>\$ 10,210,982</u>	<u>\$ 8,315,212</u>	<u>\$ 1,895,770</u>	<u>\$ 10,210,982</u>