2013 Urban Water Quality Grant Program Recommended Projects

**1) City of Madison – Starkweather Creek Alum Treatment (Top Ten Outfall)**

Total Cost: $700,000

County Cost Share Amount: $525,000 (75% of Total Cost)

Performance:

Annual Phosphorus Delivery to Lake Monona: 20,390 lbs

Phosphorus Removal: 6% (1,150 lbs/yr )

Summary:

The system will pump water from Starkweather Creek into a channel at Garver Mill Feed Pond. The channel will floc out Phosphorus using Alum and periodically the channel will be dredged. The project has a watershed area of 15,040 acres of low to high density residential, light industrial and commercial.

**2) City of Madison – Willow Creek Outfall (Top Ten Outfall)**

Total Cost: $500,000

County Cost Share Amount: $375,000 (75% of Total Cost)

Performance:

Annual Sediment Delivery: 486,000 lbs

Sediment Removal Efficiency: Currently 16% and increase to 24% (38,880 lbs/yr)

Summary:

The project will restore the shoreline of Willow Creek to a native/stable condition, dredge the creek bottom and sediment island in University Bay, and construct a stormwater treatment device at the discharge point to the creek. The project has a watershed area of 1,904 acres of low to high density residential and commercial. It will be a joint project with the City of Madison, UW, and DOA.

**3) City of Middleton – Parmenter Street Stormwater Basin (Top Ten Outfall)**

Total Cost: $355,000

County Cost Share Amount: $266,250 (75% of Total Cost)

Performance:

Annual Sediment Delivery: 26,310 lbs

Sediment Removal Efficiency: 66% (17,346 lbs/yr)

Summary:

This project is located in the Pheasant Branch Conservancy. This project will involve the construction of a wet detention pond and an infiltration basin. The watershed area is 83 acres comprised of commercial, multifamily, and residential land use.

**4) City of Fitchburg – Pine Ridge Bioretention**

Total Cost: $21,000

County Cost Share Amount: $10,500 (50% of Total Cost)

Performance:

Annual Sediment Delivery: 1,923 lbs

Sediment Removal Efficiency: 77% (1,479 lbs/yr)

Summary:

The bioretention device will convert an existing dry detention pond located at the west end of Conservancy Way. The drainage area is 4.32 acres with currently no controls.

**5) City of Monona – Firemen’s Park Wet Detention Basin**

Total Cost: $141,387.50

County Cost Share Amount: $70,693.75 (50% of Total Cost)

Performance:

Annual Sediment Delivery: 6,700 lbs

Sediment Removal Efficiency: 56.4% (3,778 lbs/yr)

Summary:

The project involves the construction of a wet detention basin to treat a 28 acre watershed. The project protects the City’s recent dredging project and small ponds located in the park from future siltation. This project has been started and nearly complete.

**6) City of Fitchburg – Red Arrow Wet Pond**

Total Cost: $51,050

County Cost Share Amount: $25,525 (50% of Total Cost)

Performance:

Annual Sediment Delivery: 10,292 lbs

Sediment Removal Efficiency: 41% (4,230 lbs/yr)

Summary:

The wet pond will be constructed to treat a portion of the water prior to entering Dunn’s Marsh which currently has no treatment. The drainage area is 31.81 acres with currently no controls.

**7) City of Monona – Cove Storm water Treatment Structure (Top Ten Outfall)**

Total Cost: $174,399

County Cost Share Amount: $130,799 (75% of Total Cost)

Performance:

Annual Sediment Delivery: 6,215 lbs

Sediment Removal Efficiency: 78% (4,847 lbs/yr)

Summary:

This project includes the construction of storm sewer and installation of a ConTech VorTech Storm Water Treatment System Model 16000. The treatment structure will treat 67.5 acres and in 2012 the Cove channel was dredged. This project has been started and will be complete in fall 2013.