

# GRANT FUND PROGRAM

## Implementation Procedure

### Intent of Program

- ☐ Technical assistance and funding program for retrofitting existing stormwater facilities to enhance water quality
- ☐ Retrofit upgrades to include pre-treatment, treatment, conveyance, maintenance and landscaping enhancements
- ☐ Budgeted funds within the WQ Group budget (\$50,000 in 2010)
- ☐ Initially, SEMSWA-identified projects based on detention pond inventory & annual inspection of Permanent WQ facilities
- ☐ Applicant submits a Grant Program Application
- ☐ Qualitative benefits analysis: construction costs relative to WQ benefits

## Typical retrofit projects

### Typical upgrades:

- Forebays
- Low flow channels
- Orifice plates
- Additional volume
- Micropools
- WQ enhancement



- Construct a sediment collection basin at inflow points to pond for maintenance
- Create a wetland low flow channel
- Control release by revising orifice plate on outlet structure
- Modify pond volume to allow for Full Spectrum detention
- Construct depressed area at the outlet structure to minimize clogging
- Re-construct a conveyance swale with engineered subsurface layer for infiltration and pollutant removal

## Eligible Projects

- Wal-Mart Pond at Briarwood and Lima  
*Sub-regional Example*
- Southcreek Ponds  
*Private Example*
- ECCV LB Ponds  
*Regional Example*



- SEMSWA to identify projects initially from annual inspections, inventory
- HOA facilities, commercial property facilities - owners who are responsible for maintenance are eligible
- Regional Ponds not part of a Master Plan, sub-regional ponds, and private ponds are eligible
- Potential upgrade must meet SEMSWA program goals to be eligible
- Must address existing or future need for detention or water quality (not master planned)

## Eligible Projects: Wal-Mart Sub-Regional Example

**Retrofit Options:**  
Add Forebay,  
Micropool, Access

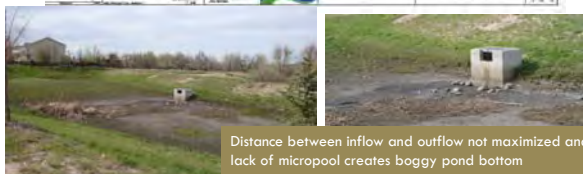
**Goal** – Eliminate  
boggy pond bottom



Lack of micropool causes standing water throughout pond bottom

## Eligible Projects: South Creek Sub-Regional Example

**Retrofit Options:**  
Meander trickle  
channel, add micropool  
**Goal** – Eliminate boggy  
pond bottom and  
eliminate short circuit



Distance between inflow and outflow not maximized and lack of micropool creates boggy pond bottom

## Eligible Projects: LBO-1 Pond Regional Example

### Retrofit Options:

Modify outlet structure to provide water quality release

Goal – Provide WQ treatment when it doesn't currently exist



### Design Retrofit Plan



Modifying detention-only regional pond to incorporate water quality capture volume provides benefit to a large tributary area.

## Project Considerations

- ❑ Priority watersheds: Cherry Creek (Control Reg); west of I-25 (no regional system)
- ❑ Regional or sub-regional vs. localized detention potential (bigger bang for buck)
- ❑ Discharge directly to State receiving waters (higher emphasis on state waters)
- ❑ Public ownership (necessary to spend SEMSWA funds) via easement or other mechanism
- ❑ Water quality enhancement benefit roughly corresponds to construction costs
- ❑ Maintenance cost consideration: reduced maintenance costs/effort after retrofit
- ❑ Matching funds, including in kind services, that could offset a portion of the construction costs



## Funding Conditions

- ☐ Public ownership or dedicated SEMSWA standard Permanent Drainage Easement
- ☐ Maintenance Agreement with SEMSWA for maintenance
- ☐ Grant Agreement that outlines terms and conditions of grant
- ☐ Project improves or enhances water quality in a manner beneficial to SEMSWA
- ☐ Project is not a Master Plan-identified regional project
- ☐ Stormwater facility has received Final Acceptance and completed warranty period
- ☐ SEMSWA manages design and construction of retrofit upgrade

## Retrofit Design Options

•Pre-treatment  
 •Treatment  
 •Conveyance  
 •Maintenance Reduction  
 •Landscaping enhancements



- ☐ Examples for Applicants
- ☐ 5 major categories to consider
- ☐ Benefits of retrofits
  - ☐ Reduce amount of sediment in system, minimize erosion
  - ☐ Volume reduction thru infiltration
  - ☐ Improve maintenance
  - ☐ Optimize functionality, no short-circuiting or re-suspension of sediments
  - ☐ Promote treatment train
  - ☐ Safe conveyance
  - ☐ Increased settling of pollutants
  - ☐ Promote healthy vegetation, longer contact time

## Application Process

Appendices contain:

- Example Letter
- Application Form
- Right-of-Entry form
- Permanent Drainage Easement
- Application checklist

- ☐ Completed Application form
- ☐ Completed Right-of-Entry form
- ☐ Construction documents or as-builts for facility
- ☐ Map of project location, photos
- ☐ Letter from sponsoring agency
- ☐ Application checklist
- ☐ SEMSWA inspection to verify application

## Criteria for Ranking Proposals

Proposal presentation includes a discussion of criteria

Include a series of questions to assist applicant in preparation of proposal

Proposal ranking matrix provided

- ☐ Scope of Work (15%)
- ☐ Project Effort relative to benefits (20%)
- ☐ WQ Enhancement/Improved Hydrology (50%)
- ☐ Local Support (5%)
- ☐ Readiness to Proceed (5%)
- ☐ Ratepayer impact/Public Value (5%)
- ☐ Additional Considerations (5% Bonus)



## QUESTIONS

### Budget Committee Revisions (5/13/10 Meeting)

- ☐ No revisions to Implementation Procedure document