

WATER QUALITY PROGRAM UPDATE

Permit Status
and Special
Projects

December
2012

MS4 PERMIT STATUS

- Questionnaire Submitted to State 10-9-12; **resolutions approved** to meet Permit requirements by SEMSWA Board and City Council (IDDE Ordinance)
- **Favorable revisions** to Cherry Creek Control Reg. 72.7 as part of 2013 Triennial Review
 - Permanent BMP requirement for Road 'maintenance' **excluded**
 - 'Large lot BMP' is an **Automatic Exclusion** from Permanent BMP
 - Some **planting flexibility** for re-vegetation constraints (drought)
- Existing Permit extended until **March 2104**: targeted meetings to discuss new permit terms 1st quarter 2013
- Special WQ Forum Task Force meetings, to resolve **big issue topics** with Division top managers
 - Roadway; MS4 Consistency; Nutrients-Reg 85; EPA Rulemaking

NEWS OUT OF EPA

- **New EPA Stormwater Rulemaking– Proposal expected June 2013; final action December 2014**
 - Division hearing general buzz that it will be ‘rolled out soon’
 - Division will not have any input prior to public dissemination
 - **Main component: Performance standards for New Development and Redevelopment (urban impact on Stormwater quality)**
 - Green infrastructure to manage **state-specific** volume standard; testing out flow-based TMDLs back east
 - Reduce imperviousness/preserve vegetation as BMPs
 - **Alternate solutions:** payment-in-lieu, watershed mitigation
 - **Less strict** for redevelopment to encourage infill opportunities
 - **Other considerations: Retrofits, County-wide permit boundary, municipal yards put under industrial permitting**

MS4 PERMIT IMPLEMENTATION

- **“Construction Site Runoff” - GESC efforts**
 - **Implement Under-an-Acre Policy Document**
 - No Permit for ‘Low Risk’ activities: Fact Sheets
 - Assist customer with Low Impact & Small Site to minimize process, get permits issued faster
 - Annual Permits
 - Dry Utilities (cable installation)
 - Park/Rec Districts and Metro Districts
 - **Pilot Program - GESC Plan preparation assistance for selected CIP projects**
 - WQ Program staff redline construction drawings with GESC BMPs for in-house CAD rendering instead of consultant preparing GESC plan – save design engineer \$\$ and review time
 - **Continuing mobile inspection protocols to increase efficiency in field with FieldID app for iPad: real-time delivery of action items & potential for efficiencies in permit issuance and immediate collection of re-inspection fees (ties compliance directly to field conditions)**



MS4 PERMIT IMPLEMENTATION



CHERRY CREEK CONFERENCE



SPECIAL PROJECTS

- Drainageway Signage
- Pilot UDFCD Maintenance Projects (no SEMSWA \$\$ involved) through our review & permitting process
- Implement in-house 'Live Reviews' for Grant Program projects, retrofit projects and partner agencies (UDFCD) maintenance projects
- Pond Retrofit and Grant Program

DRAINAGEWAY SIGNAGE

COTTONWOOD CREEK



- Roughly 422 sign locations have been identified within the City of Centennial right-of-way and unincorporated Arapahoe County, in addition to SSPRD and APRD trail crossings
- This initial phase will be 37 signs with goal of 80 signs a year
- Bid from 3 firms; Contract with Road Safe to install; cost is \$90/set of signs; includes locates

PILOT REVIEW/PERMIT & 'LIVE REVIEW'

- SouthCreek Ponds Retrofit (Grant Program) Project
 - 30% plans, enough to get costs for bidding purposes; more of a design/build approach: heavy interaction in field with contractor
 - Inefficient use of formal 3:2:1 review process due to low level design
 - In-house 'live review' meeting with SEMSWA LD staff, WQ staff, and design engineer
- Piney Creek Bank Stabilization
 - UD maintenance project, repair bank erosion at 2010 bridge project, but not a SEMSWA CIP project – limit CIP folks time on this UD effort
 - 100% design plans
 - Annual Permit GESC Plan + limited specificity for bidding purposes
 - 'Live review' meeting; removed 2nd round comments; fast approval
- Little Dry Creek @ Krameria
 - UD maintenance project, same as above
- Others as identified: SEMSWA retrofits, possible SSPRD, APRD, metro district, IGA Partner projects not under Annual

POND RETROFIT EFFORTS

- Let's get a handle on costs associated with EPA Rulemaking consideration of "managing discharges from existing sites", meaning **retrofits**
- Implementing retrofits as part of Maintenance/CIP projects
 - Mexico Pond – retention pond retrofitted w/ WQ outlet structure
 - Caley East – detention only pond retrofitted to Regional WQ pond
 - University Park HOA–detention to sub reg WQ, constructed 2013
 - LEC @ Arapahoe/Lima– On-line wet pond to dry extended detention basin – full spectrum regional WQ, under construction
- Two retrofits being funded under Grant Program
 - The Ridge in Centennial
 - Southcreek in Arapahoe County - 2 separate HOA applications.

SEMSWA CIP/MAINTENANCE RETROFITS



Caley East Pond - completed



Mexico Beeler Pond - completed



Lincoln Executive Pond - in construction



Country Park Pond - 2013

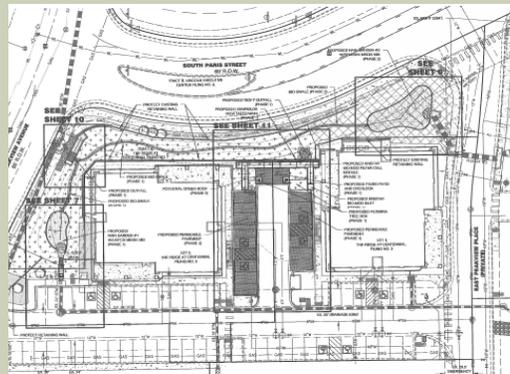
POND RETROFIT GRANT PROGRAM

The Ridge, Centennial Colorado



New WQ concept:

- Demonstration garden of Low Impact Development (LID) techniques
- Educational site for developers, engineers, and the public
- Training and monitoring for long term maintenance of water quality



POND RETROFIT GRANT PROGRAM

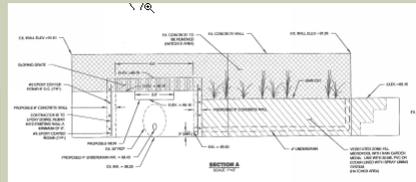
The Ridge, Centennial

Progress Update:

- Contractor pre-bid meeting December 13th
- Bids due December 20th
- Construction window: 45 days
- Anticipated complete in time for Spring planting window

Noteworthy:

- **EPA Award of funds** for education: \$15,000
- Secured BMP and material **donations** in excess of \$100,000
- CCBWQA and UDFCD will be partners with SEMSWA for monitoring long term success



POND RETROFIT GRANT PROGRAM

Southcreek, Arapahoe County



Existing Pond Concerns:

- Difficult maintenance access
- Low functioning outlet structure
- Not attractive: Standing water & mosquito
- Outlet Structure clogs easily

HOA Involvement:

- SEMSWA initially contacted to discuss pond maintenance
- HOA (2 separate associations) have pledged \$10,000 (>15%) contribution

New WQ treatment concept:

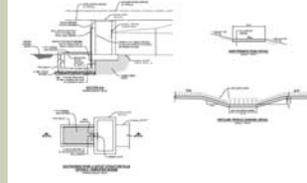
- Modified outlet structure
- Added micropool
- Added infiltration media to drain ponds and maintain vegetation
- Demonstration for future retrofits and monitoring for long term maintenance of water quality

POND RETROFIT GRANT PROGRAM

Southcreek, Arapahoe County

Progress Update:

- Engineering Cost Estimate for bidding completed
- Pre-bid meeting December 13th
- Bids due December 20th
- Under contract by 12/31/12



Noteworthy:

- Utilize 'typical' GESC plans developed for retrofit program, not specific to site
- Concept plans can be utilized for future retrofits with similar pond configuration
- HOA's likely contributing additional funds to add enhanced vegetation around the pond
- HOA's interested in adding educational signage



QUESTIONS

