

Southeast Metro Stormwater Authority 2008 Year In Review



Maintenance

Typical Maintenance Projects...



Before



REGIONAL POND MAINTENANCE



After



Maintenance Before & After...



Before



CULVERT CLEAN OUT



After



FLARED END SECTION REPLACEMENT & BANK REPAIR

2008 Statistics

- **1,829** storm grates cleaned
- **495** vaults cleaned
- **3,686** lineal feet of ditches rehabilitated/reconstructed
- **1,846** lineal feet of storm sewer pipe flushed
- **125,693** lineal feet of storm sewer pipe inspected
- **148** manholes cleaned
- **9,273** tons of sediment removed from conveyance system
- **27** detention ponds cleaned/maintenance performed
- **334** tons debris/overgrowth removed
- **89** Citizen Service Inquiry requests processed



Capital Improvement

2008 Construction Projects



Before



After

LITTLE DRY TRIBUTARY CONVEYANCE BEHIND CASTLEWOOD LIBRARY



SOUTHWOOD NEIGHBORHOOD OUTFALL SYSTEM TO BIG DRY CREEK

2008 Construction Projects



Before



CHRISTENSON LANE CONVEYANCE IMPROVEMENTS



After



ORCHARD VALLEY OVERFLOW CONVEYANCE IMPROVEMENTS



Projects in Initial Design Phase

- Cherrywood Circle Storm Sewer
- Dove Creek Pond D – 1(90% complete)
- Heritage Place Storm Sewer
- Little Dry Creek Reach 6
- Piney Creek at Caley Drive Bridge
- Piney Creek Stabilization
- Spring Creek at Otero Avenue and Newport Street
- Windmill Creek Pond W – 5

Projects in Completed Design Phase

- Big Dry Creek Bridges at Arapahoe Road and University Boulevard (preliminary)
- Cottonwood Creek Easter to Briarwood Avenues
- Dove Creek Pond D – 1 (complete to 90%)
- Dove Hill Culverts
- Forest Park Stabilization
- Greenfield Channel
- Little Dry Creek at Arapahoe Road Culverts
- Outfall C Storm Sewer (Coordinated design with Arapahoe County)
- Panama Drive Drainage preliminary
- Upper Littles Creek Drainage Study preliminary

Projects in Construction Phase

- Arapahoe Plaza Storm Sewer
- Easter/Verbena Storm Inlets
- Orchard Valley Overflow (completed)
- Southwood Village/Greenwood Manor Storm Sewer (completed)
- Windmill Creek Pond W – 4

Master Planning

2008 Master Planning Projects...



■ WILLOW CREEK, LITTLE DRY CREEK &
GREENWOOD GULCH OUTFALL SYSTEMS PLAN



■ LOWER COTTONWOOD CREEK
OUTFALL SYSTEMS PLAN UPDATE



■ LONE TREE, WINDMILL, AND
DOVE MASTER DRAINAGEWAY
PLANNING AND FLOOD HAZARD
AREA DELINEATION STUDY

Water Quality

2008 Water Quality Outreach...



SEMSWA MS4 Permit Programs 1 & 2

■ Over **20** educational outreach events in 2008, including **SPLASH** (Stormwater Permittees for Local Awareness of Stream Health) sponsored events and Cherry Creek Stewardship Partners EdKit activities that SEMSWA sponsors:

- Raptor Walk @ Cottonwood Creek
- Volunteer Clean ups
- Western Welcome Week Booth
- World Monitoring Day
- WEED Network Meetings
- Run for the Cherry Creek Watershed
- Science Fairs
- Biology Teacher Workshop
- Cherry Creek Annual Conference
- Eagle Scout projects: Inlet labeling
- Monthly 'stormwater message' ads in CO Community Newspapers
- Public Meetings for all capital projects

2008 Illicit Discharge Elimination...

SEMSWA MS4 Permit Program 3



- 51 IDDE concerns investigated in 2008
- 12 were illicit discharges (defined as potential for discharge to pipe, pond, waterway)
 - Typical: concrete washout, power washing, sediment
 - Educational materials sent out to homeowners
- 123 letters sent re: Grass Clipping disposal



- Curbside, Inc. provides curb-side recycling services
 - Curbside provides the supplies, makes an appointment, and collects a \$20 co-pay directly from resident
 - SEMSWA picks up the remaining \$90/each pickup
- During 2008
 - 520 stops and 42,000 pounds of waste collected
 - Approximately 270 gallons of used oil & antifreeze, 3,200 gallons of paint collected and recycled

Construction & Post-construction Pollution Control...



Grading,
Erosion &
Sediment
Control (GESC)



SEMSWA MS4 Permit Programs 4 & 5

- Active grading, erosion control permits: 110
- Active Public Improvement Permits 72
- Active public capital projects: 15
- Collateral on hand to enforce 'in place and functioning' controls: over \$4 million

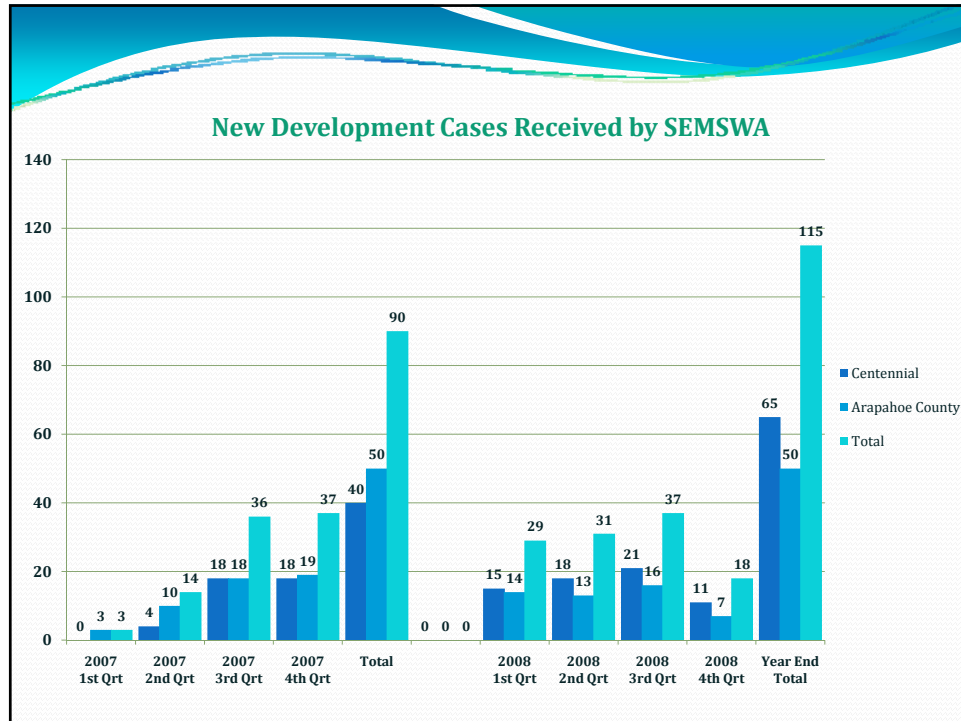


Permanent Water
Quality Public
Improvements

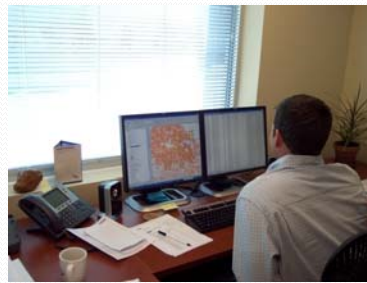


- Approximately 200 sites being inspected for GESC, Permanent WQ BMP controls (primarily Extended Detention Ponds, Sand Filter Basins and Grass Buffers/Swales) or other Public Improvements (storm sewers, inlets, manholes, outfalls) by Water Quality staff

Land Development





- Established an in-house GIS Program
- Documented & continued mapping (GPS) the Drainage Inventory System
- Assessed and Re-designed the GIS Database
- Participated in the citywide LIDAR Project
- Commenced GIS & Asset Management System (CarteGraph) Integration



Administration

Revenue: **\$9,285,550**
Expenses: **\$7,463,602**

Customer Service: **600+** Calls

Staffing: from **27** to **31**

Checks Written: 2007-**665**; 2008-**863**

Customer Service Statistics

Stormwater Fees on Parcels

Parcels	Billed	Collected	Percentage
2007	58,056	57,554	99.14%
2008	58,740	58,163	99.02%

Amount	Billed	Collected	Percentage
2007	\$7,554,730	\$7,490,544	99.15%
2008	\$7,800,830	\$7,713,236	98.88%

Permit and Review Fees Collected in 2008 : \$199,741
Floodplain; GESC; Other