

## MEETING MINUTES

# Lower Cottonwood Creek Outfall Systems Planning Study

### Project Meeting #6

MEC Project #: 07-068  
Meeting Date: November 23, 2009  
Meeting Location: SEMSWA

#### Meeting Attendees:

Shea Thomas	UDFCD
Ken MacKenzie	UDFCD
Monica Bortolini	SEMSWA
Brad Robenstein	Douglas County
Greg Weeks	City of Lone Tree
Ron Lambert	Mulhern MRE for Inverness WSD
Ward Mahanke	TST for City of Lone Tree
Bill Ruzzo	CCBWQA
Britton Thomas	City of Centennial
Melanie Chenard	Muller Engineering Co.
Jim Wulliman	Muller Engineering Co.

The objective of this progress meeting was to review the selected plan, discuss incorporation of Douglas County into the Phase B scope, and review the Phase B approach and deliverables. Specific discussion topics are as follows:

#### Selected Plan

- The selected plan essentially follows the recommended plan (Alternative C plus additional improvements to Centennial Corner and Blue Sky ponds). The selected plan document was reviewed.
- SEMSWA requires some water quality treatment onsite regardless of regional detention. WQCV and 100-year detention is determined on a case by case basis based on what downstream facilities are in place at the time and the available volumes within those facilities. A requirement for onsite WQCV should be included in cases where development exceeds the plan land use / impervious values.
- Prioritization will be done initially by Muller on a technical basis; stakeholders can then review the draft report and provide additional input on prioritization based on political issues.

#### Incorporation of Douglas County into Phase B Report

- Douglas County is joining the project as a sponsor; therefore conceptual design of the plan improvements will now include improvements within unincorporated Douglas County. Because the portion of the City of Lone Tree within the watershed is within the RidgeGate PD, conceptual design will not include

improvements within Lone Tree. The upstream study boundary will be Lincoln Avenue.

- Ward brought up a number of items to be considered in the Douglas County area:
  - Conveyance capacity at all 3 Lincoln crossings should be investigated
  - The RidgeGate developer may reduce peaks to historic at all three crossings or divert all runoff to the western (mainstem) crossing and only provide improvements there. Over-detention in some areas may be utilized to achieve the allowable release rates at the downstream end of RidgeGate.
  - There are conveyance issues within the Meridian golf course; Ward can meet with Muller onsite to review.
  - RidgeGate developers will likely be asked to work with the Plan hydrologic models.
- Lone Tree controls the ROW at Lincoln; Greg and Brad were unsure who would be responsible for costs of improvements at the Lincoln crossings if needed. Such improvements will be included in the conceptual design (study limit will be upstream side of Lincoln).

#### Deliverables

- Floodplains do not need to be shown on plan and profile drawings.
- Maintenance access can be provided by roads when reasonable (proximity, traffic loads, etc.) Inverness is working out maintenance details with the golf course; work in golf courses would likely be negotiated on a case by case basis; permanent maintenance access does not need to be shown within golf courses.
- Maintenance eligible work includes detention ponds, bank stabilization, drop structures.
- Mapping: because mapping sources vary between Arapahoe County and Douglas County, DRCOG LIDAR mapping will be used for the whole study area. 10' contours will be shown on 400-scale plans.
- Drawings will also include blowup layouts of detention ponds (new or retrofits that require regrading – not for outlet structure modifications only) and any other blowups Muller finds necessary.
- Cost opinions: Monica will let Muller know if SEMSWA costs should be broken up between Arapahoe County and Centennial and public vs. developer.

#### Other items

- A second public meeting will not be held
- Muller will provide Shea with additional crossing survey needs for Douglas County and tributaries
- Draft report submittal will be 10 copies of report; stakeholders will have 30 days to comment
- Next meeting will be after comments are received (or as needed)
- Stacey Thompson at Arapahoe County needs to be added to the distribution list