

## Meeting Minutes

<b>Project Name</b>	<b>Date of Meeting</b>	<b>Location</b>
Lower Lena Gulch	October 25, 2006	UDFCD, Denver

<b>Purpose of Meeting</b>	<b>Time</b>
Progress	1:30 pm

<b>Participants</b>	<b>e-mail or telephone</b>
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### 1. STATUS REPORT

#### a. Tracked Issues

##### i. Review of tracked issues

1. We are looking for stakeholders from USEPA and the City of Lakewood to contact about this project. Representatives from CDOT, Consolidated Mutual Water District, Army Corps of Engineers, and Jefferson County Open Space have been notified of the project by e-mail. Steve will contact the City's new stormwater engineer and invite him to the next meeting.
2. GKCC staff received advice from UDFCD on calibration of CUHP 2005 flows for the upper basins of Lena Gulch to match the peaks of the 1995 upper basin study. Using this information GKCC was able to calibrate the runoff model. This issue is resolved.
3. There was a problem using the conversion utility program for the upper UDSWM model to EPA SWMM. The input was manually converted but results have a 12% continuity error. The 1995 study uses unusually high n-values in the routing links; these should be changed to be within normal ranges.

#### b. Schedule –

- i. Milestone: GKCC met with Consolidated Mutual Water District on 10/20/2006 and received information on reservoir water control operations. CMWD also provided data on stage-storage and stage-discharge relationships for the reservoir. CMWD is also in the process of completing a new LOMR for their treatment plant expansion. They will make their hydraulic analysis available in the near future for use in the lower Lena Gulch study.
- ii. Activities that have been performed since the last meeting (October 13, 2006) were reviewed (see discussion of current task progress).

- iii. George Cotton reviewed project activities for the next six weeks of the project. These activities include:
  - 1. Preparation of the project hydrology report
  - 2. Hydraulic calculations of the lower Lena Gulch floodplain
  - 3. Development of conceptual alternative plans

## 2. NEW BUSINESS

### a. Current task progress

- i. The schematic of the EPA SWMM 5.0 model of the upper basin was distributed. Calibration and continuity issues were discussed (see tracked issues).
- ii. A draft-final version of the basin map for the lower basin was presented. Changes include the addition of the Crown Hill Basin, subdivision of basins at Union and Simms to match stream reaches, and subdivision of basin west of Kilpling Street on the right bank.
- iii. George provided Ken with compilation of photos for the corridor reconnaissance.
- iv. A draft of the alternatives formulation was presented by George. It was recommended that the project objects include maximizing both the riparian and aquatic ecology of the stream corridor.
- v. The basic structure of the alternatives was reviewed. Comments included:
  - 1. Wheat Ridge stormwater should have input into alternative formulation
  - 2. There is a need to coordinate with UDFCD's study of the Clear Creek corridor in order to address confluence design and improvements. Opportunities at the confluence are largely a function of the Clear Creek study and alternatives that address trail improvements under the Kipling Street bridge.
  - 3. The ranking of alternatives needs to be clarified. Ben noted that the interest rate used for UDFCD is a hybrid rate that accounts for several economic factors.

### b. New tasks

- i. George Cotton reviewed the upcoming project activities (see schedule discussion above).
- ii. GKCC and its consultants Shapins Associates and The Restoration Group will be meeting to develop a list in matrix format.

### c. New issues

- i. Add discussion of previous meeting minutes to meeting agenda.

## 3. NEXT MEETING

- a. Project meetings – November 13, 2006 at 1:30, UDFCD Offices