
**PROGRESS MEETING FOR
COAL CREEK AND ROCK CREEK (CCRC) MDP & FHAD
MEETING MINUTES**

Date: September 30, 2013
Location: Erie Community Center
Distributions: Reach Figures, Alternatives Matrix, Discussion Alternatives Evaluation Process

Attendees:

NAME	ORGANIZATION
Rebecca Baker	City of Broomfield
Peter Johnson	City of Lafayette
Jeff Moline	City of Lafayette
Joliette Woodson	City of Louisville
Amy Cornelius	RESPEC
Teresa Patterson	RESPEC
Wendi Palmer	Town of Erie
Gary Hegner	Town of Erie
Alex Ariniello	Town of Superior
David Heinrich	Town of Superior
Shea Thomas	UDFCD
David Mallory	UDFCD
Dave Skuodas	UDFCD

I. Purpose

The purpose of this meeting was to discuss the Alternatives Analysis process with the project sponsors. The Reach Figures which contained Problem Area Tables were reviewed; during this review, additions and corrections were made (mostly as a result of the Recent Flood). The Alternatives Matrix was also explained and reviewed. Feedback was solicited from the project sponsors regarding the alternatives that will be evaluated for each reach within their jurisdiction. The format of the meeting generally followed the Reach Figures and the Alternatives Matrix which were provided by RESPEC.

II. Meeting Start

- Teresa shared Alex A.'s video with footage of the Recent Flooding in Superior.

III. Discussion of Recent Flood Extents

- Joliette W. relayed that Dillon Road in Louisville did overtop and flowed down St. Andrews Lane. Flow was waist high at peak depth. Two houses along the golf course were flooded.
- Peter J. inquired about flow along Baseline road. Flooding backed up (due to build up of sediment and rock) in Boulder Creek and overtopped baseline into a nearby lake.

- Peter J. also relayed that the Rock Creek flood were close to but did not flood it. High water marks were 2' below the invert of the lab building and 2' from the top of the aeration basins. Repairs are required.
- Flows on Rock Creek only reached the low cord of the structure on Majestic Drive.
- Peter J. relayed that there was unexpected and significant flooding along Reach 25 to the west. It started at the trail and was 3' deep outside of the road and 6-9" elsewhere. There was debris on the fence. Houses in the area were fully flooded. Sinuosity or flow from tributaries (i.e. drainageway 7) most likely contributed flow to the flood in excess of the major drainageway flows.
- Some high water marks have been painted to record them in Lafayette.
- Teresa P. stated that the Recent Flood is not necessarily comparable to the 100-year Regulatory Floodplain as flows in Rock Creek peaked well below the 100-year flows; thus it did not overflow into Coal Creek as it would in the 100-year event.
- 120th Avenue industrial area had flooding approximately 3' deep.
- Discussion of whether project hydrology would be adjusted per the Recent Flood. It was clarified that the storm that caused the Recent Flood was different in intensity and duration than the 100-Year Flood. The hydrology will remain as it is.
- Roadway structures that have blown out include the Dillon Frontage Road and the bridge on 95th Avenue in Louisville.
- Empire Road in Boulder County is closed due to embankment erosion from overtopping (although the structure is still standing).
- Joliette W. stated that the flooding did not encroach on the electric building in Louisville.

IV. Problem Areas

- Peter J. relayed that the banks at Baseline Road are sluffing. .
- Along Reach 25 there was major flooding that was not reflected in the original FHAD.
- Wendi P. brought up Reach 8 – there was a breach of the irrigation pond here. The creek blew right through and realigned itself through the former irrigation pond. Discussion followed regarding whether to repair the former pond and realign the channel to the pre Recent Flood location or to leave the creek alignment as is (going through the former pond) and relocate the irrigation pond. This will ultimately be decided by Erie with advising from the Army CORPS.
- Wendi P. stated that Reach 8 also has severe bank stabilization issues (vertical banks).
- Wendi P. also stated that Reach 10 needs drop structures.
- Peter J. addressed the pedestrian bridge between Reaches 25 and 26 - although the structure is still standing the creek alignment has completely changed and no longer goes through the structure.
- Teresa P. confirmed that pedestrian crossing structures will not be evaluated for replacement as criteria allows them to overtop.

V. Alternatives Matrix

- Teresa P. explained the Alternatives Categories and the Rating Criteria.
- David M. suggested taking into account 'open space credits' in the Floodplain Preservation Alternative.
- Shea T. suggested a value of \$2/SF for rural land for alternatives 1 and 2.
- Lafayette does not allow floodplain development at all. Therefore Floodway preservation (Alternative 2) is not an option here.
- Should there be a cost associated with land acquisition in existing open space? Jeff M. stated that it can be bought by a developer (thus does have a value). A decision was not reached.

- Wendi P. stated that for the Detention Alternative the land used for detention will still have value as open space.
- Peter J. suggested increasing the Social Benefit rating to 5 in Reach 12 since the wastewater plant is located in the 100-Year Floodplain there.

VI. Action Items

Project Sponsors:

- All project sponsors: send RESPEC a list of addresses of homes and other structures that were flooded.
- All sponsors make any corrections required or desired on both the Reach Figures as well as on the Alternatives Matrix.
- Joliette W. (or Cameron F.) as well as Wendi P. will send RESPEC and Shea T. photos of roadway overtopping.

RESPEC:

- Get addresses of homes and other structures that were flooded from project sponsors.
- Make floodplain map[s] available to project sponsors..
- Look at Erie survey around Reach 8.
- Re-evaluate Reach 25 and readjust HEC-RAS cross sections to more accurately represent flooding in this area. Account for extreme sinuosity in this area.
- Eliminate evaluation of Alternative 2 in Lafayette areas as they do not allow any development in the floodplain.
- Determine whether there will be a cost associated with land acquisition in existing open space?
- Prioritize sizing the following structures and convey information to appropriate jurisdiction or consultant: Dillon Frontage Road, the bridge on 95th Avenue, and 120th Avenue.
- Ask Justin at CDOT about the performance of the crossing structure at 36th.

VII. Schedule

- Draft Alternatives Report will be submitted October 21.
- Public Meeting will be scheduled after the submittal.