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**Grange Hall Creek MDP and FHAD  
FHAD Kickoff Meeting Minutes**

Date: March 28<sup>th</sup>, 2016, 1:30 PM  
Location: UDFCD Building  
Distributions: Agenda and Draft Schedule

Attendees:

<b>NAME</b>	<b>ORGANIZATION</b>	<b>E-MAIL</b>
Shea Thomas	UDFCD	<a href="mailto:stthomas@udfcd.org">stthomas@udfcd.org</a>
Terri Fead	UDFCD	<a href="mailto:tfead@udfcd.org">tfead@udfcd.org</a>
James W. Kaiser	City of Thornton	<a href="mailto:jim.kaiser@cityofthornton.net">jim.kaiser@cityofthornton.net</a>
Pam Acre	City of Northglenn	<a href="mailto:pacre@northglenn.org">pacre@northglenn.org</a>
Anna Sparks	Adams County	<a href="mailto:asparks@adcogov.org">asparks@adcogov.org</a>
Shannon McDowell	Adams County	<a href="mailto:smcdowell@adcogov.org">smcdowell@adcogov.org</a>
Alan Leak	RESPEC	<a href="mailto:alan.leak@respec.com">alan.leak@respec.com</a>
David Delagarza	RESPEC	<a href="mailto:david.delagarza@respec.com">david.delagarza@respec.com</a>
Mike Bannister	RESPEC	<a href="mailto:mike.bannister@respec.com">mike.bannister@respec.com</a>

**I. Purpose**

The purpose of this meeting was to discuss the recent Hydrology Report submittal, introduce the FHAD process, and discuss preliminary floodplain modeling and delineation.

**II. Hydrology Report**

Shea Thomas opened the meeting discussing the hydrologic modeling that has been obtained from RTD during the 7.5 months since the previous meeting. David Delagarza stated that RESPEC has made progress on the HEC-RAS model and flood delineations and plans to submit the preliminary FHAD on April 27<sup>th</sup>.

Ms. Thomas asked when RTD plans to begin construction on the mainstem and North Tributary crossings. Jim Kaiser stated that RTD intends to put culverts under the tracks this summer or fall.

Ms. Thomas stated that the baseline hydrology models the final, fully constructed RTD detention basins on the mainstem and North Tributary crossings.

### **III. Preliminary Hydraulic Model and Floodplain Delineation**

RESPEC began presenting preliminary floodplain delineations. It was noticed that the mainstem delineations stopped immediately downstream of I-25. It was noted that there is an effective FEMA floodplain upstream of I-25. Due to the small size of the drainage area upstream of I-25 it was decided it would be preferable to remove the 100-year floodplain from this location rather than delineate an updated floodplain. Ms. Thomas stated that RESPEC should use I-25 as the mainstem upstream FHAD limit until informed otherwise.

Due to schedule constraints the discussion switched to the unincorporated Adams County portion of the study area. Referring to the artificial ditch that is the current channel alignment for the mainstem in this area, Anna Sparks asked if the UDFCD would be interested in restoring a more natural flow path. It was decided that a more natural flow path with greater conveyance was desirable and would be included in the alternatives phase of the study. The Adams County Open Space Master Plan will be consulted while developing alternatives.

The discussion returned to the upper reaches of Grange Hall Creek (GHC). Mr. Kaiser noted that there is no formalized spillway at the Regatta Apartments/former railroad spur crossing. Ms. Thomas stated that the current flow path over the road embankment should be noted in the alternatives.

It was noted that the current study limit on the South Tributary ends short of the effective FEMA floodplain. It was decided to extend the current study limit upstream to include the full effective floodplain. Mr. Delagarza state RESPEC will not include new area in the preliminary FHAD submittal but will include it on later submittals.

Mr. Delagarza asked if a floodway was desirable in the Lambertson Lakes area downstream of Washington St. Mr. Kaiser stated it was acceptable to set the floodway boundary equal to the floodplain in this area.

It was decided the FHAD study area on the North Tributary will be moved upstream to include all area with an effective FEMA floodplain. It was noted that the storm sewer at this location is a larger pipe slip-lined down to 54". RESPEC will use all flow exceeding the capacity of this pipe for mapping surface flooding.

RESPEC asked how to delineate the detention basin adjacent to the 112<sup>th</sup> Ave/Northeast Tributary crossing. Terri Fead stated RESPEC should block the highest possible basin pool with an obstruction in RAS and delineate it as shallow flooding.

Mr. Kaiser noted that the pond fore bay at 400914 was full of sediment.

Mr. Kaiser would like the flow split down 109<sup>th</sup> Pl near Colorado Blvd to be removed if the modeling indicates the flow split no longer exists.

Various requests were made for alternatives in the study area. These are listed at the end of the minutes under Action Items

RESPEC asked if the preliminary FHAD map layout was acceptable. Ms. Thomas and Ms. Fead stated it was.

Mr. Delagarza briefly described the MDP process.

#### **IV. Schedule**

Ms. Thomas requested that the next meeting be in early May.

#### **V. Action Items**

- RESPEC will extend the FHAD study limit upstream on the South Tributary to include all areas with an effective floodplain
- RESPEC will extend the FHAD study limit upstream on the North Tributary to include all areas with an effective floodplain
- RESPEC will block the detention basin adjacent to the 112<sup>th</sup> Ave/Northeast Tributary crossing with an obstruction in RAS and delineate the area as shallow flooding
- RESPEC will set a meeting date in early May
- UDFCD will research FEMA rules for removing the 100-year floodplain from an entire reach due to small watershed size

#### Items to Include in Alternatives

- Reference culvert replacement alternatives at Larson St/mainstem crossing as described in 2010 Major Drainageway Conceptual Design Report by Muller Engineering
- Natural/historical flow path restoration on mainstem near South Platte Confluence. Eliminate over topping of 104<sup>th</sup> Ave in this area
- Indicate overflow path over Regatta Apartments/former railroad spur crossing (bird cage)
- Detention basin west of Olinger Highland Cemetery irrigation pond
- Consider raising road grade at Washington St/South Tributary crossing. Consider moving waterline if necessary.
- Remove dam at cross section 602026
- Consider raising road grade at 104<sup>th</sup> Ave/South Tributary crossing
- Flood proofing at Northglenn sanitary lift station east of Irma Dr/105<sup>th</sup> Pl intersection
- Stabilized natural channel between cross sections 400951 and 401530 on Northeast Tributary. Protect crossing at 401023

- Prevent flow splits at cross sections 201116 and 200756 on Riverdale Tributary

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*These minutes are true and accurate to the best of my knowledge based on notes and recollection. Should any attending party have additions or corrections to these minutes, please forward them to David Delagarza of RESPEC Consulting within one week of the date of receipt. The absence of a response will be considered concurrence to the previous information and these minutes will be considered matter of fact.*