



## MEETING MINUTES

### Second Creek Tribs MDP and FHAD Progress Meeting 1

Date: July 23, 2021  
Location: Virtual Meeting  
Distributions: Agenda

#### Attendees :

<u>NAME</u>	<u>ORGANIZATION</u>	<u>EMAIL</u>
Colin Haggerty	MHFD	<a href="mailto:chaggerty@mhfd.org">chaggerty@mhfd.org</a>
Brent Soderlin	Commerce City	<a href="mailto:bsoderlin@c3gov.com">bsoderlin@c3gov.com</a>
Chris Hodyl	Commerce City	<a href="mailto:chodyl@c3gov.com">chodyl@c3gov.com</a>
Lisa Froshaug	DOTI	<a href="mailto:lisa.froshaug@denvergov.org">lisa.froshaug@denvergov.org</a>
David Morrissey	DOTI	<a href="mailto:david.morrissey@denvergov.org">david.morrissey@denvergov.org</a>
Jennifer Williams	DOTI	<a href="mailto:jennifer.williams@denvergov.org">jennifer.williams@denvergov.org</a>
Catherine Rafferty	DEN	<a href="mailto:catherine.rafferty@flydenver.com">catherine.rafferty@flydenver.com</a>
Alan Leak	RESPEC	<a href="mailto:alan.leak@respec.com">alan.leak@respec.com</a>
Jen Winters	RESPEC	<a href="mailto:jennifer.winters@respec.com">jennifer.winters@respec.com</a>
William Lynn	RESPEC	<a href="mailto:william.lynn@respec.com">william.lynn@respec.com</a>

#### 1) Introductions

The meeting was opened with introductions.

#### 2) Purpose

The purpose of the meeting was to finalize each tributary's project scope. Additionally, the meeting was used to discuss existing and future land use studies and how they impact the hydrologic modeling.

#### 3) Scope of Work

Nineteen tributaries were included in the study. Per the project meeting on May 28, 2021, RESPEC was tasked with comparing the 2014 post-flood LiDAR with recent aerial imagery to determine if some tributaries should be removed from the list or have a modified scope. After a discussion between the project sponsors and RESPEC, the project scope of each tributary was updated accordingly. Fifteen tributaries will be reviewed in this study. In many cases, tributaries scopes were updated from FHADs to Non-regulatory floodplain analysis (same level of FHAD detail without submitting to FEMA) with the only true FHAD being prepared for the West Fork of Second Creek. Each tributary's scope discussed during the meeting is shown in the following table:



Tributary	Municipality(s)	MDP	Non-Regulatory Floodplain	FHAD
Francis Gulch	Commerce City		Removed from Study	
Reed Run	Commerce City		Removed from Study	
Peachleaf Run	Commerce City	x	x	
Dragway Draw	Adams Co. and Commerce City		x	
Granma Gulch	Commerce City	x	x	
Buckley Run	Adams Co. and Commerce City		Removed from Study	
Buckley Rd. Tributary	Adams Co. and Commerce City		Removed from Study	
Tower Run	Adams Co., Commerce City, and Denver/DIA		X	
West Fork Second Creek	Adams Co., Commerce City, and Denver/DIA	x		x
Quick Draw	Denver/DIA	x	X	
Second Creek Short Run	Adams Co. and Denver/DIA	x	x	
Hawthorne Gulch	Denver/DIA	x	X	
Buckthorn Draw	Denver/DIA	x	x	
Barberry Run	Denver/DIA	x	x	
Pinon Draw	Denver/DIA	x	x	
Alfalfa Draw	Denver/DIA	x	x	
Runaway Run	Denver/DIA	x	x	
Cocklebur Run	Denver/DIA	x	x	
Dandelion Draw	Denver	x	x	

David Morrissey (DOTI) pointed out that the non-regulatory floodplain analysis should be at the quality of work as a FHAD without submitting to FEMA. Jen Winters (RESPEC) agreed that the level of detail for the floodplain analysis could be at a FHAD level, but that it may not be necessary to prepare all the documentation that typically goes with a FHAD report. The deliverables will need to be discussed when RESPEC is contracted for that portion of the project. DIA, Denver, and Commerce City agreed with RESPEC's analysis that conducting FHADs for a majority of these reaches would not be necessary due to future development influencing the floodplain resulting in a new FHAD to be conducted.

#### 4) Hydrologic Modeling

##### a. Current and Future Development

Jen displayed a figure of the Second Creek Tributaries and the surrounding developments based on the drainage reports provided to RESPEC by the project sponsors. Two additional developments were shown in red as possible future developments in which reports were not provided. These possible developments were discovered by Will Lynn (RESPEC) during a field visit to the sites in July 2021. DIA, Denver, and Commerce City reviewed the figure and



mentioned additional future developments around the Tributaries, some that were in their initial phases of development and did not have preliminary reports at the time of this meeting. Catherine Rafferty (DEN) mentioned the following developments that will be built in the future at DIA: West Approach, Second Creek Campus, 72<sup>nd</sup>/Himalaya, New Runway, and the E-470/Pena widening project. Commerce City mentioned two additional developments: Avila and Second Creek Farms. RESPEC will compile the known developments into a figure to distribute to project sponsors for review and approval. Developments

**Action Item:** Project sponsors will provide development drainage reports and other design information to RESPEC for incorporation into the baseline hydrology. Catherine Rafferty (DEN) to provide RESPEC with E-470 contact information and up-to-date development plans in DIA property based on conversations with real-estate team. Commerce City to provide up-to-date drainage reports for Settlers, Avila, and Second Creek Farms developments.

**Action Item:** RESPEC to send project sponsors an updated figure with built, in development, proposed, and future development areas outlined. Areas are to be reviewed by each project sponsor to confirm development areas and to add any missing data.

- Figures attached to these Meeting Minutes

## b. Detention Review

RESPEC reviewed the location of potential detention ponds to be included in the existing and future conditions of the baseline hydrology. The following ponds were discussed:

- Highpoint Pond (M6108): Included in the Second Creek Masterplan. Regional detention pond on West Fork Second Creek, recently updated to include additional storage based on the conversation with DIA and Denver.
- Pinon Pond: Located at the most upstream point of Pinon Draw, after the E-470 crossing. This is an imminent pond for Pinon Draw and was asked to be included in the study by the MHFD.
- Alfalfa Draw Pond: Located just southwest of Tibet Street and 78<sup>th</sup> Ave Connector intersection. Pond was recently developed with the anticipation of the West Approach development.
- Barberry Run Pond (M4018): Included in the Second Creek Masterplan. Located just north of 79<sup>th</sup> Ave. Existing pond that reduces peak flows to Second Creek and therefore will also be considered in the Tributaries analysis.
- Pond A (Potentially Add): Located on Quick Draw before intersecting with West Fork Second Creek. More data needed on the pond to determine if a reduction in 100-year peak flow occurs. RESPEC will require more information about the drainage area to the pond and area-storage-discharge curves.

**Action Item:** DEN to provide stage/storage/discharge information for the Alfalfa Draw Pond. DOTI to provide stage/storage/discharge information for Pond A.

## 5) Baseline Hydrology Schedule

The following is the draft schedule for baseline hydrology:

- a. Draft Baseline Hydrology Report – late August
- b. Review Draft Report – mid September
- c. Final Baseline Hydrology Report – late September

**Action Item:** RESPEC to send a Draft Baseline Hydrology Report by late August for review by project sponsors.



6)

**Action Items**

- a. RESPEC to update development properties figure and send to project sponsors for review and approval.
  - i. Project sponsors will review attached figure and included any missing future/proposed developments with the Second Creek watershed.
- b. Project sponsors will provide development drainage reports and other design information to RESPEC for incorporation into the baseline hydrology.
- c. Catherine Rafferty (DEN) to provide RESPEC with E-470 contact information and any other additional proposed developments within the DIA property.
- d. Chris Hodyl (Commerce City) to provide drainage reports for Settlers Development, Avilia development, and Second Creek Farms development.
- e. DEN to provide stage/storage/discharge information for the Alfalfa Draw Pond. DOTI to provide stage/storage/discharge information for Pond A.
- f. RESPEC to send Baseline Hydrology draft report by late August.