



KICKOFF MEETING MINUTES

**Van Bibber Creek MDP and FHAD
Wednesday, September 11, 2019
10:30 am at Mile High Flood District**

Attendees:

Name	Company	E-mail
John Conn	Jefferson County	jconn@co.jefferson.co.us
Robyn Brown	Arvada	robrown@arvada.org
Brooke Seymour	Mile High Flood District (MHFD)	bseymour@udfcd.org
Deb Ohlinger	Olsson	dohlinger@olsson.com
Amy Gabor	Olsson	agabor@olsson.com
Michelle Danaher	Olsson	mdanaher@olsson.com

Discussion Items:

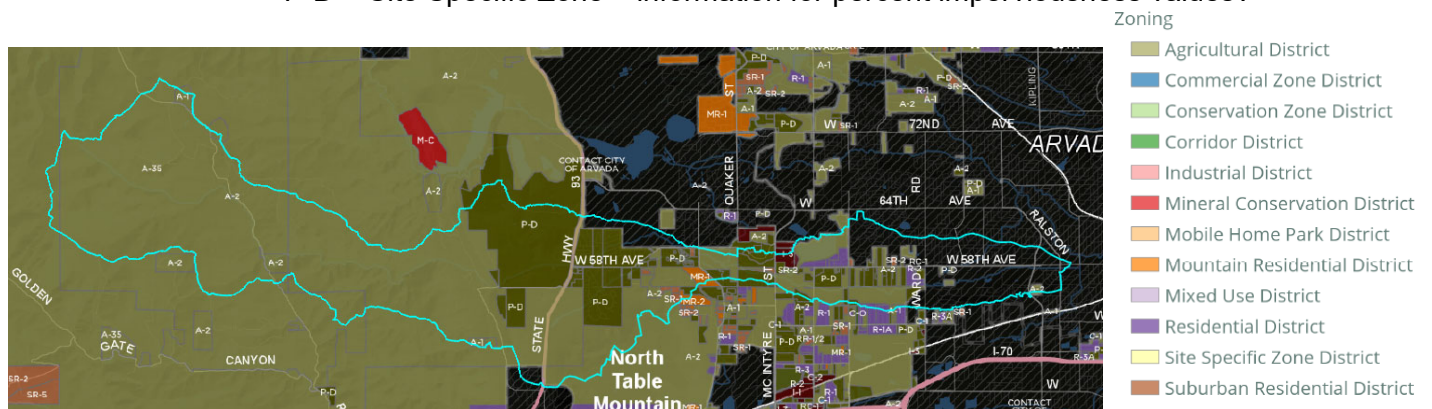
The main purpose of the meeting was to discuss the start of the project. While this summary is not intended to represent a comprehensive account of the meeting, it is intended to reflect the key points raised and issues for further consideration and to identify the action items resulting from the discussions. The non-bold items comprised the meeting agenda. The items in bold resulted from the discussions.

- 1) Introductions
 - a) Other invitees to meetings?
 - i) **Bill Jennings will be invited and cc'd on project meetings and correspondence.**
- 2) Project goals
 - a) Main areas of concern
 - i) **The main project goal from Arvada's and Jefferson County's standpoints is to update the old study and have better information on flood risk and drainage problems.**
 - ii) **The main project goal from MHFD's perspective is to have a better floodplain model that more accurately identifies flood risk. An updated model will make the CLOMR/LOMR process easier because the effective model will have more realistic tie-ins.**
 - iii) **Hydrology will be completed for the whole watershed but master planning will be within the District boundary.**
 - b) Observed problems/issues?
- 3) Needed information
 - a) GIS contours – *already provided*

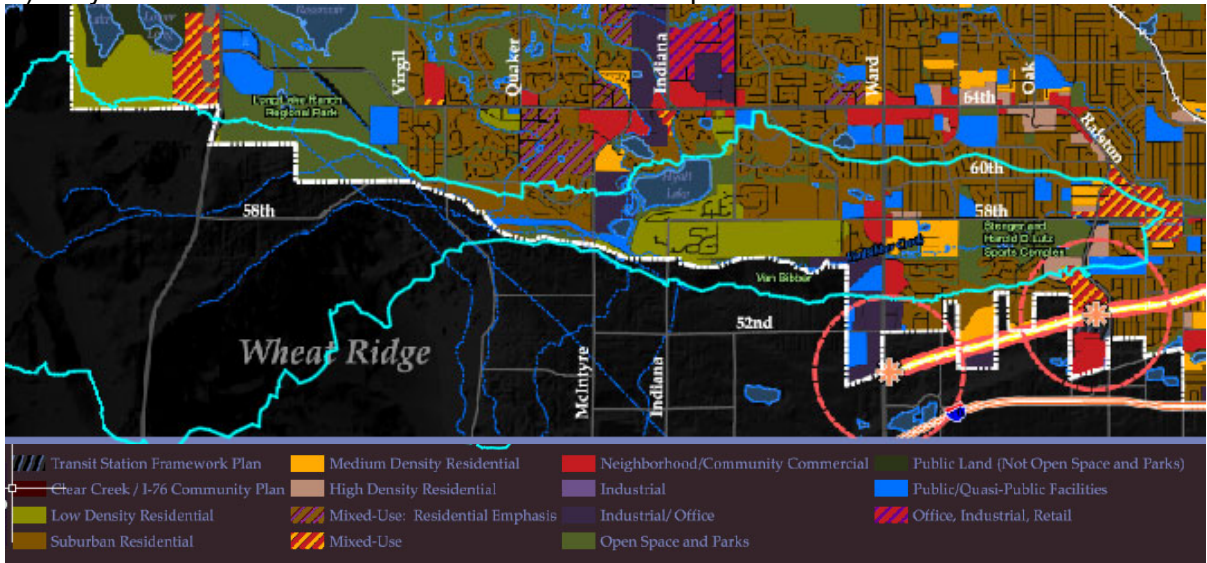
- b) Abutting watershed boundaries – *already provided*
- c) GIS
 - i) Downloaded parcels, roads, zoning from Arvada and Jefferson County websites
 - ii) Need utilities
 - **Olsson will send a shapefile of the area of interest to Arvada and Arvada will provide utility shapefiles.**
 - **Jefferson County does not have utility shapefiles. John will investigate whether they have storm sewer information for the newer developments near Highway 93. The County has very few utilities in the area. North Table Mountain Water and Sanitation District and others have utilities in the area.**
 - **A large Denver Water conduit likely crosses Van Bibber. Olsson will contact Denver Water for information on the crossing. (After the meeting, information on Denver Water’s website was consulted and the conduit crosses Van Bibber where the creek crosses 60th Avenue. It is a 66-inch and 72-inch pipe in the area.)**
- d) Future land use (existing land use will be National Land Cover Data base)
 - i) Small area in Golden – use City of Golden land use maps – **Olsson will send maps/link to maps to Brooke. Brooke will coordinate with Golden to verify the accuracy of the maps.**



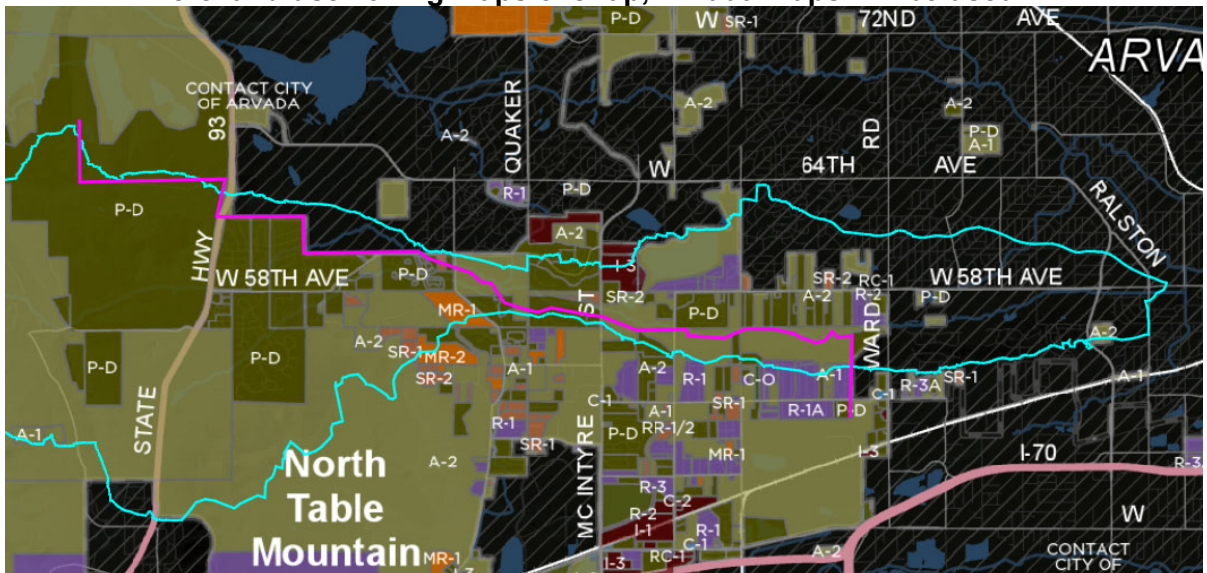
- ii) Jefferson County – downloaded zoning shape files
 - P-D = Site Specific Zone – information for percent imperviousness values?



iii) City of Arvada – Downloaded future land use shape files



iv) Area of overlap between Jefferson County maps and Arvada maps – which to use? **Where land use/zoning maps overlap, Arvada maps will be used.**



- e) Proposed development drainage reports, if any
- f) Structure surveys – *already provided*
 - i) **Brooke will send a Dropbox link to everybody (Arvada, Jefferson County, Olsson)**
- g) Ponds – any regional detention?
 - i) Broad, Hyatt, or Kelly Lakes?
 - ii) Design plans (1982) for detention on Van Bibber Creek west of Ward Road
 - iii) **No regional detention is known in the watershed. Brooke will double check MHFD adequate assurance agreements.**
- h) As-constructed documents for channel projects
 - i) Have plans for near new Kipling

- **A non-regulatory floodwall is reflected in the effective mapping on the parcel north of 58th Avenue. It will not be reflected in the FHAD.**
 - **Planned development north of 58th near Kipling.**
- 4) New hydrology to be developed
- a) Use EPA SWMM 5.1.013 and CUHP 2.0.0
 - b) Existing and future land use?
 - i) **Olsson will compare the existing and future percent imperviousness. Due to the nature of the watershed, we will likely develop flows for both conditions. That decision will be made once the impervious values have been compared.**
 - c) Detention to be included in baseline hydrology?
 - i) Storage-discharge information
 - LiDAR
 - As-builts or survey
- 5) Schedule to follow agreement
- a) Draft hydrology due November 20, 2019 (10 weeks from today)
- 6) Upcoming meetings
- a) During hydrology
 - b) After hydrology review
- 7) Other
- a) **Near the intersection of Violet Way and 60th Avenue, fill has been recently placed near the creek. The area is within Arvada. Robyn will investigate what work was permitted and if they have survey from the project.**
 - b) **A new bridge is currently under construction on McIntyre at Van Bibber Creek. Muller will move forward with the LOMR process. We will check in regarding LOMR/FHAD timing when we get to the FHAD phase.**
 - i) **Jefferson County will furnish as-builts when the project is complete.**
 - c) **RESPEC is completing a stormwater master plan for Arvada. They have delineated some sub-basins as a part of that effort. Arvada will send a link to the RESPEC map.**
 - d) **The standard interactive hydrology map will be used.**

Action Items:

Olsson

- **Send Arvada a boundary for utility shapefiles.**
- **Send MHFD Golden's land use maps**

MHFD

- **Send Dropbox link with structure surveys**

- **Coordinate with Golden to verify accuracy of land use maps.**

Arvada

- **Send utility GIS data.**
- **Investigate the approved plan/survey for fill area near Violet Way and 60th Avenue.**
- **Provide any drainage reports for developments.**
- **Send RESPC basin map and information regarding Hyatt and Broad lakes that was provided to Arvada.**
- **Send any known flooding problems.**

Jefferson County

- **Check for storm sewer information for the developments near Highway 93 and 58th Avenue.**
- **Check on "P-D" developments/land use.**
- **Provide any drainage reports for developments.**
- **Provide McIntyre Street bridge as-builts.**
- **Send any known flooding problems.**

Please contact Olsson at 303-237-2072 with any changes or questions regarding these meeting minutes. These minutes will be considered final unless comments are received within seven days of distribution. Although comments will be incorporated, as appropriate, only major revisions will be redistributed.

**Minutes prepared by: Michelle Danaher
cc: Attendees, Bill Jennings**