

KICKOFF MEETING MINUTES

Brantner Gulch MDP and FHAD
Monday, September 24, 2018
2:00 pm at Urban Drainage and Flood Control District

Attendees:

Name	Company	E-mail
Dave Skuodas	Urban Drainage and Flood Control District (UDFCD)	dskuodas@udfcd.org
Pam Acre	City of Northglenn (Northglenn)	pacre@northglenn.org
Kurt Carlson	Adams County Parks and Open Space	kcarlson@adcogov.org
Jim Kaiser	City of Thornton (Thornton)	Jim.kaiser@cityofthornton.net
Matt Eberly	Thornton	Matt.eberly@cityofthornton.net
Deb Ohlinger	Olsson Associates (Olsson)	dohlinger@olssonassociates.com
Amy Gabor	Olsson Associates	agabor@olssonassociates.com
Mark Schutte	Olsson Associates	mschutte@olssonassociates.com

The meeting was held to discuss the start of the project, identify needed information, and determine known issues and problem areas. This summary is intended to reflect the key points raised, issues for further consideration, and action items resulting from the discussions.

- 1) Introductions
 - a) Other invitees to meetings? None discussed.

- 2) Project goals
 - a) Main areas of concern and of note
 - i) Claude Court and RTD culverts
 - (1) New RTD culvert was sized based on MDP flows
 - (2) Claude Court culvert – not improved yet
 - ii) Water quality is desired upstream of Mann-Nyholt Lake. Water augmentation occurs at the Mann-Nyholt Lake
 - iii) Infrastructure in fairgrounds – need to maintain access by at least one of the two bridges during storm events
 - iv) Brantner Ditch interface – separate flows from Brantner Gulch
 - (1) triple cell, 16x12 culverts are located under Riverdale Road but were filled in 5 feet deep. The culverts can be cleaned out to provide full conveyance. One cell is desired for use as a trail connection. It could be the north or south cell.
 - v) Karl's Farm detention – part of irrigation system, detention in area just west of Claude Court
 - vi) Irma Drive and Race Street are planned to extend north, but are not planned to cross Brantner Gulch at this time. Race Street may extend up to Eastlake Avenue in the future.
 - vii) Several new developments are in progress or have been recently completed within the watershed.
 - (1) High school at Yosemite and 136th. Low flows routed into storm sewers; high flows routed through Riverdale Road culvert into golf course

- (2) King Soopers south of 136th, east of Monaco
 - (3) Creekside development south of 128th, west of Quebec. Include channel stabilization following the old stock pond breach. The master plan should not contradict Otak design plans for the development.
 - (4) City Park at 136th, west of Holly – 110-acre area. Has sand filter detention basin, two 18" pipes outlet south for overflow
 - (5) Church at 132nd and Quebec
 - b) Observed problems/issues?
 - i) Childcare facility at Colorado Avenue and 124th is shown to be located in the floodplain
 - ii) Floodplain stops at Claude Court. For this study, we may show the floodplain and associated risk in the MDP, but not include the extents in the FHAD
 - c) Follow Adams County Riverdale Regional Park Master Plan
 - i) Shows anticipated future alignment
 - ii) Continuous riparian corridor from 120th to 136th
 - iii) Enhance fishing and bird habitat – keep wildlife corridors accessible
 - d) Evaluate reintroducing flows between Mann-Nyholt Lake and the Fishing is Fun Pond along the historic Brantner Gulch channel alignment
 - e) Dave commented that he would like to be able to easily find information in the MDP, such as design flows at key locations
 - f) A major goal is to develop comprehensive hydrology for the main stem and all tributaries
- 3) Needed information
- a) GIS contours – already provided by UDFCD
 - b) Abutting watershed boundaries, if different than what is available on-line
 - c) GIS – utilities, parcels, roads, etc.
 - d) Future land use (existing land use will be National Land Cover Database)
 - e) Proposed development drainage reports
 - f) Structure surveys. Photos of both sides of the structures, drop structures, and descriptions of shots would be helpful.
 - i) To be provided by UDFCD
 - g) Detention basins – see below
 - h) As-constructed documents for channel projects, if not available on UDFCD website
- 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) Three model scenarios will be developed: historic (2% impervious everywhere, no detention), existing (current conditions), and future (land use based on zoning and development projects)
 - c) Detention to be included in baseline hydrology?
 - i) See attached list of detention basins included in previous studies and identified from aerial imagery. Thornton has easements and maintains some detention basins that do not necessarily qualify as regional. The project sponsors will provide input on whether the detention basins should be included. Thornton noted that five smaller detention basins were modeled in the Lakeview Tributary watershed and were included in a model by ICON for 2012 Brantner Gulch and Lakeview Tributary channel improvements.
 - ii) Drainage reports for existing and new detention basins

- iii) Storage-discharge information will be developed from one of the following:
 - (1) 2005 MDP – 2005 model stage-area/storage-discharge to be used where detention basins were included. Volumes will be spot checked using LiDAR
 - (2) Drainage reports to be used for stage-area-discharge where available. Volumes will be spot checked using LiDAR
 - (3) LiDAR – to be used for stage-area where detention basin varies from 2005 MDP model, was not included in MDP model, and/or no drainage reports are available
 - (4) As-builts or survey – to be used to develop stage-discharge for detention basins that were not included in 2005 MDP, and where no drainage reports are available.
 - d) Calibration – Olsson will compare the newly-developed flows to those included in previous studies.
 - e) Jim noted that the Brantner routing in the 2005 MDP should be updated to show the discharge from Eastlake Reservoir No. 2 going to Eastlake Reservoir No. 3, then down to 124th.
- 5) Schedule to follow agreement
 - a) Draft hydrology due December 3, 2018 (10 weeks from today)
 - 6) Upcoming meetings
 - a) During hydrology. Olsson will schedule for when draft hydrology is expected to be complete.
 - b) After hydrology review
 - 7) Other

Actions Items

Olsson:

- Create a map and list of detention basins included in previous studies or seen in Google Earth for the sponsors to evaluate regarding inclusion in the hydrology models – *Completed*

City of Northglenn:

- Check to see if Irma or Race extension crossing Brantner is desirable
- Provide contact to Olsson for GIS shapefiles – *Completed*
- Provide as-constructed documents for completed non-UDFCD projects
- Provide input on detention basin list

City of Thornton:

- Provide Drainage Report for ICON Brantner Gulch and Lakeview Tributary Channel Improvements Project
- Provide ICON Report – five detention basins in series, circa 2010
- Provide contact to Olsson for GIS shapefiles
- Provide as-constructed documents for non-UDFCD completed projects
- Provide drainage reports for new and under construction developments that will affect the hydrology
- Provide input on detention basin list

Adams County Parks and Open Space:

- Provide contact to Olsson for GIS shapefiles – *Completed*
- Provide input on detention basin list

UDFCD:

- Provide Drainage Report for ICON Brantner Gulch and Lakeview Tributary Channel Improvements Project
- Provide shapefiles for abutting watershed boundaries, if different than what is available on-line
- Determine whether Olsson or UDFCD will identify the structures to be surveyed. Dave will discuss with Shea
- Provide structure surveys, once structures have been identified

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: Mark Schutte

cc: Attendees