



Community Guide to Navigating the Risk MAP Process

CHECKLIST OF COMMUNITY ACTIONS FOR EACH PHASE



WHAT TO EXPECT AT HYDROLOGY REVIEW

- The Utah Risk MAP team will engage with your community to discuss and review the draft engineering information that will be used to update your community’s floodplain information. They will review the engineering approach chosen to identify *how much* water will flow through the floodplain (the amount of flood discharges) during different sized flood events. This is called a *hydrologic analysis*. The calculated flood discharges from the latter analysis will then be applied to a *hydraulic analysis*, which determines *where* the water will go during flood events.

WHAT THE COMMUNITY WILL RECEIVE

- Report summarizing the hydrologic analysis approach and its results
 - Provides anticipated flood discharges for different sized flood events and compares them to existing discharges (discharges shown on the current FEMA flood maps)
- Digital mapping information (geospatial data/database)

WHAT THE COMMUNITY OFFICIALS NEED TO DO

- Review the approach the project engineers took (their methodology)
- Review the results of the hydrologic analysis:
 - Check to make sure the study area delineation includes the areas that you’re expecting to see – are there any expected locations missing? Are there any unanticipated areas shown?
 - Look at the amount of water predicted to run through the waterways (discharge) during the 100-year (1%) flood event and other mapped events (e.g., 10-year)
 - Compare the flood discharge data in the hydrology report to any local community information, such as stormwater management data
 - Look at whether your existing stormwater management infrastructure can accommodate the predicted flood discharges (volumes of water) flowing through them without water leaving the channel (i.e., will your culverts, channels, etc. overflow at these events?)

Important Note: *Discharges used for the hydraulic analysis will be based on the flood discharge data included at the time the hydrology analysis is developed. Once the discharges are reviewed and approved by the community, it will be very difficult to make changes as the study progresses without causing significant project delays. However, after the maps become effective, hydrology can be updated via a community-initiated Letter of Map Revision (LOMR) or Physical Map Revision (PMR) to include additional year discharge data if desired.*

- If you have access to engineering support, ask a qualified engineer to review:
 - The approach used
 - Hydrologic modelling information, including:
 - Subbasin boundaries
 - Infiltration parameters
 - Rainfall amount



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- Transform parameters
 - Whether it was calibrated
 - Regression equations or gauge analysis if they were used
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- Review the data and information provided to see if they are missing any new data from your community such as: data on storm drains, stream gauges, or hydrology calibration data
 - If so, notify the mapping team and provide the data that you can.
 - Please understand, the expected time to provide such information was during the Phase 2 Kickoff, before the work began. Adding information now will require an approved change order (*due to the additional resources and time involved in making changes at this point*).
 - Send the Utah Risk MAP team any additional questions or comments about the hydrology approach or results