

LOWER COLORADO – LAVACA REGIONAL FLOOD PLAN A TEXAS INITIATIVE

RFPG 10 TECHNICAL COMMITTEE | JUNE 30, 2022



AGENDA

Task 5: Recommendation of FMEs, FMSs and FMPs

 Discussion and possible action regarding recommended Flood Management Evaluations and Strategies and Flood Mitigation Projects

Task 12: Perform FMEs, identify, evaluate, and recommend additional FMPs

- Discuss TWDB requirements
- Criteria and considerations for selection of FMEs

Next Steps



Task 5

Recommendation of Studies (FME), Strategies (FMS) and Associated Projects (FMP)

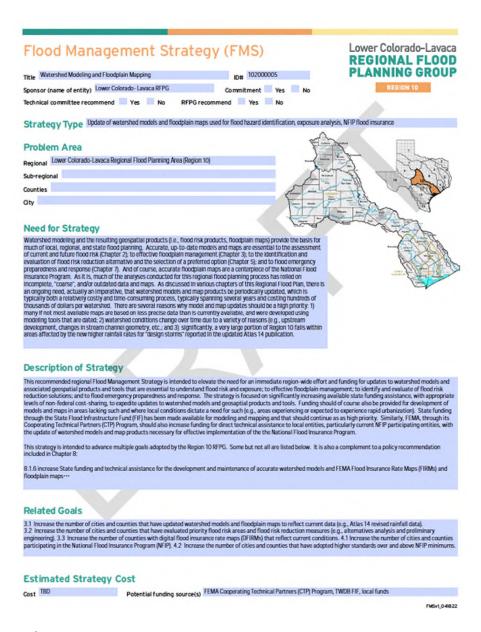
POTENTIAL FMS

Watershed Modeling and Floodplain Mapping

Sponsor: Lower Colorado- Lavaca RFPG

Strategy Type: Update of watershed models and floodplain maps used for flood hazard identification, exposure analysis, and NFIP flood insurance

(see full-size PDF in meeting packet)





Task 12

Perform Identified Flood Management Evaluations

Identify, Evaluate, and Recommend Additional Flood Mitigation Projects

TASK 12 – PERFORM FMEs FOR ADDITIONAL FMPs

TWDB Requirements

Objective:

- "Perform" identified FMEs to recommended additional FMPs.
 - Evaluate flood risks in areas with limited data
 - Evaluate flood risk reduction solutions
 - Preliminary engineering

Requirements:

- RFPG must approve list of FMEs to be performed and any additional FMPs to be evaluated and recommended
- Must adhere to Task 4B/5 requirements
- Revise and re-submit relevant data deliverables and RFP chapters
- Results/recommendations to be included in the Amended Regional Flood Plan (due 7/14/23)

TASK 12 – PERFORM FMEs FOR ADDITIONAL FMPs

Criteria and Considerations for FME Selection

- FME categorized as "Preliminary Engineering"
- H&H models available if needed (e.g., analysis of potential adverse impact)
- Structures/populations at risk
- High risk/exposure low-water-crossings (e.g., depth of inundation, traffic count)
- Critical facilities at risk
- Level-of-effort (cost) to perform FME relative to available budget
- Sponsor concurrence

TASK 12 – PERFORM FMEs FOR ADDITIONAL FMPs

Criteria and Considerations for FME Selection

Potential Scope of Work for Selected FMEs:

- Site visits
- Update hydrologic and hydraulic modeling (e.g., Atlas 14 rainfall)
- Update preliminary design of improvements
- Analyze flood risk reduction benefits
- Verify no adverse impacts
- Develop cost estimates
- Complete cost-benefit analysis
- Evaluate potential constraints (environmental, utility conflicts, right-of-way needs, and constructability)
- Prepare documentation of RFPG action and for inclusion in Amended Regional Flood Plan

NEXT STEPS

- Today Discussion and input from Technical Committee
- July 7 RFPG meeting Present and discuss preliminary recommendations from Technical Consultants
- July 11 Technical Committee review and action on recommended FMEs for additional evaluation/development
- July 18 RFPG review and action on recommended FMEs for additional evaluation/development
- Technical Consultants develop scope of work and budgets for each FME selected for additional evaluation/development
- Initiate work
- Report progress at future RFPG and Technical Committee meetings
- RFPG consideration/approval of recommendations
- Incorporate results and recommendations into the Amended Regional Flood Plan



Wrap Up