

North San Joaquin Area Local Floodplain Delineation

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Project Description and Background

The San Joaquin County Department of Public Works (SJCPDW) will be requesting proposals from engineering consulting firms to provide engineering services to carry out studies and map local flood hazard areas and remap historic flooding areas in the San Joaquin area (Project). SJCPDW currently maps historic flood boundaries from floods that occurred in 1955 and 1958. However, these are rough digitizations and are approximations of such areas. Furthermore, flood control, water storage, and land development constructed upstream of the watershed since this time has altered the boundaries of these historic flooding areas. The Project also intends to remedy deficiencies of existing drainage facilities and assess future improvements. The Project will be carried out in two phases: Phase 1 will focus on remapping historical flood areas in the North San Joaquin area while Phase 2 will focus on remapping in the South San Joaquin area.

Tasks and Services Needed

The tasks for both phases are summarized below:

Task 1: Initial scoping meeting and redefine scope as needed; review and research of existing mapping, hydrology and hydraulics reports, drawings of drainage facilities; investigation of ground topography from available sources and accuracy and confidence levels; determination of preferred mapping and data additions to current system; Public Outreach

Task 2: H&H study of subject areas and watersheds; Interpretation and verification of results; identification of remedies to existing facilities and carrying out of conditional inspections; Initial drafting of mapping of the floodplain; Public Outreach

Task 3: Mapping of the floodplain and facilities based on results from Task 2

Optional Tasks (Future)

Task 4: High priority repair of facilities; High priority Remove and Replace; Cost estimates of such improvements; Public Outreach

Task 5: Propose improvements based on the County's 10-year General Plan and 10-year Zoning Map Change

Note that this task list is based on the preliminary Scope of Work and can be modified and further expanded as subtasks as appropriate in the Request for Proposals.

Desired Qualifications for Consultants

Consultants (or subconsultants) with the following experience and qualifications are desired for this Project:

1. Knowledge, experience, and background in areas of tasks described above or similar projects
2. Cost estimation for future improvements
3. Stakeholder involvement and community engagement

Release of Request for Proposal: May 2026