

## Task 2a. Compile and Update Water Quality and Salt Loading Data

Subwatersheds in the LSJR watershed have been identified as part of the Salt and Boron LSJR Total Maximum Daily Load (TMDL) BPA analysis. Using information for the LSJR itself and the subwatersheds, the Contractor will identify, compile, and develop into a database available water quality and salt loading data needed for determining baseline salt loading to the LSJR as well as evaluating current water quality conditions within and estimating compliance with water quality objectives being considered for the river (see Task 3)<sup>1</sup>. The Contractor will update existing data compilations with data from 1995 to the present<sup>2</sup>.

Subtask 2a.1. Identify, compile, and develop into a database available water quality and salt loading data needed for determining baseline salt loading, evaluating current water quality conditions, and estimating compliance with water quality objectives being considered for the river. The data should include, as available, flow, EC, TDS, and constituents of salt (sodium, magnesium, calcium, potassium, carbonate, bicarbonate, chloride, sulfate, and boron). **The starting point is to use the data from the Vernalis TMDL (Salt and Boron) report and to update with more recent data (1995 to the present) from the same sources.** This effort should be supplemented with data from other relevant sources, including the United States Bureau of Reclamation (USBR) and the California Department of Water Resources (DWR). The Contractor will work closely with USBR and DWR committee representatives to access and compile relevant data from those agencies. Inclusion of data from the CVRWQCB and Irrigated Lands Program Agricultural Coalitions should also be considered<sup>3</sup>.

### Deliverables

- Database with water quality and salt loading data from 1968 to present
- Technical memo summarizing data (and sources of the data) included in the update.
- The documentation regarding the water quality and salt loading data will be incorporated, as needed, into the Task 3 deliverables

## Task 8a. Finalize Beneficial Uses Review

The LSJRC developed an evaluation of existing and potential beneficial uses in Reach 83 of the San Joaquin River (Merced River inflow to Vernalis)<sup>4</sup> and proposed draft Basin Plan language to reflect the potential refinement of existing uses. The evaluation includes a description of the existing and potential beneficial uses, and recommends changes to those beneficial uses based on recent information. The proposed language includes a strike-out/underlined version of current Basin Plan language. The Contractor will assist the LSJRC in reviewing the evaluation, make a determination of the appropriateness of the recommendations in the evaluation, evaluate the sufficiency of the available technical information to support the recommendations, and finalize the decisions about any changes (or

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<sup>1</sup> This task does not include a thorough quality assurance/quality control (QA/QC) of the dataset. In addition, much of this data, which has already been entered into the WARMF database, does not include the associated metadata.

<sup>2</sup> The CVRWQCB will provide the data compilation with the data from 1968 – 1995. The Contractor will add the data from 1995 to present to this database.

<sup>3</sup> The data from the Irrigated Agricultural Coalitions will be coordinated to the extent practicable with the Irrigated Agriculture Water Quality Data Request, April 2013 that was submitted pursuant to the Geographic Information Systems (GIS) Task 5 work effort. However, progress on the GIS Task 5 work will not dictate the timing of the work done for Task 5 in this work plan.

<sup>4</sup> *Existing and Potential Beneficial uses in Reach 83 of the San Joaquin River (Merced River Inflow to Vernalis)*

lack thereof) in beneficial uses<sup>5</sup> (with a primary focus on those most related to salinity). The Contractor will use the final evaluation as a basis for finalizing the draft Basin Plan language for proposed changes in the designated beneficial uses.

Subtask 8.1 Review and finalize existing and potential beneficial uses evaluation for the Lower San Joaquin River from the Merced River inflow to Vernalis.

Subtask 8.2 Finalize proposed Basin Plan language for any proposed changes in designated beneficial uses.

**Deliverables**

- Draft of Final Evaluation document (redline/strikeout of existing document)
- Final Evaluation document (with accepted changes)
- Draft Basin Plan language
- Final Basin Plan language

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<sup>5</sup> This scope of work does not include the development of the corresponding section of the staff report or the scientific documentation to support the proposed changes in the designated beneficial uses.