

# IEP Data Management Plan

## Basic Information

Year: 2020; PEN:104; Date Updated: 2019-06-10; Start Date: 2019-01-01

## Study Title

Thermograph Stations

## Principal Investigator

*Individual(s) responsible for the project. Include name, agency, e-mail, & phone.*

David R Parker

USGS Sacramento Field Office

## Point of Contact

*Individuals who data users should contact for access to the data or questions about the data. Include name, agency, e-mail, & phone number or write "same as above."*

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## Data Description

*A very brief description of the information to be gathered; the nature and scale of the data that will be generated or collected. Include approximate size (in MB) of the resulting data set.*

Water-quality work at these sites consists of continuous monitoring of water temperature at sites 11303500, San Joaquin River at Vernalis, CA and 11389500, Sacramento River below Wilkins Slough near Grimes, CA, and sediment sampling at site 11303500, San Joaquin River at Vernalis, CA. Temperature measurements are recorded at fifteen minute intervals during the entire water year. The purpose is to provide continuous information on the temperature regime in the river to help evaluate effects on fisheries, amphibian, and other aspects of the aquatic ecosystem. Daily observer suspended sediment sampling is conducted to assist in determining the load carried by the San Joaquin River, additional sampling for sediment is conducted by USGS crews on a regular basis.

## Related Data

*Optional. Existing datasets that you incorporate into analysis and reporting for this program element, existing data that are relevant to your study, or data that are collected simultaneously.*

USGS NWIS Data Base for additional upstream to confirm calculated values.

## Metadata

*A description of the metadata to be provided along with the generated data, including the metadata standards used. Provide the file name and information on how users can access the metadata (e.g., a link).*

[Metadata](#) can be found online.

## Storage and Backup

*A description of the short-term storage methods and backup procedures for the data, including the physical and electronic resources to be used for the short-term storage of the data.*

Data is archived according to the disposition schedule of the Federal Government: U.S. [Geological Survey Water Resources Discipline Scientific Records Disposition Schedule](#), which can be found online.

Federal Facilities are used to archive all records, physical and electronic.

## Archiving and Preservation

*The procedures for long-term archiving and preservation of the data, including succession plans for the data should the expected archiving entity go out of existence.*

See storage and backup.

## Access and Sharing

*A description of how data will be shared. Include (1) access procedures, (2) embargo periods, (3) technical mechanisms for dissemination (e.g., website addresses, listserv information), (3) whether access will be open or granted only to specific user groups, and (4) a timeframe for data sharing and publishing.*

(1) [Data access](#) is available online. (2) No listed Embargo period: Data is initially published as Provisional until it is QA/QC'd when the data is listed as Approved (3) Data is disseminated by: " <https://waterdata.usgs.gov/nwis/>", (4) Access is open, (5) Publication: Water temperature is published hourly and approved every 150 days, Sediment data is approved on a yearly basis.

## Format

*Formats in which the data will be generated, maintained, and made available. Include BOTH general data type (e.g., spreadsheet, relational database) and file format (extension).*

Formats available from NWIS:

Graph

Graph w/ stats

Graph w/o stats

Graph w/ (up to 3) parms

Table

Tab-separated

## **Quality Assurance**

*Brief description of procedures for ensuring data quality. Provide links to Quality Assurance Project Plan and/or QA/QC Standard Operating Procedures.*

The following USGS standard procedures and protocol manuals are used during the collection of data:

Guidelines and Standard Procedures for Continuous QW Monitors TM 1-D3

Field Methods for Measurement of Fluvial Sediment TWRI\_3-C2

Water Temperature-Influential Factors, Field Measurement, and Data Presentation TM 1-D1

These standards may be downloaded from here: <https://pubs.er.usgs.gov/>

Additional QA/QC' information is found in: Quality-Assurance Plan for Water-Quality Activities of the California Water Science Center, Updated May 15, 2014 by Lisa D. Olsen, Water-Quality Specialist. Last approved April 18, 2014 by Eric G. Reichard, Director.

## **Rights and Requirements**

*A link to or instructions to locate the agency's rights and requirements for data use.*

[Data release information](#) can be found online.