

# IEP Data Management Plan

## Basic Information

Year: 2020; PEN: 331; Date Updated: 2019-06-12; Start Date: 2016-09-21

## Study Title

Central Valley Salmonid Coordinated Genetic Monitoring Project

## Principal Investigator

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

Elissa Buttermore, USBR, ebuttermore@usbr.gov, 916-414-2416; not enough room in this section to list all the primary investigators

## 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."*

Elissa Buttermore, USBR, ebuttermore@usbr.gov, 916-414-2416

## 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.*

This project will improve the science and management value of the Central Valley salmon monitoring network, supported through IEP and other regional interagency monitoring studies, by accurately determining stock identification of multiple Chinook salmon stocks across their distribution. Classification tables will be developed to characterize monthly and seasonal accurate run assignment and potentially biophysical explanatory variables influencing genetic accuracy. Additionally, this genetic monitoring would continue to be conducted concurrently with monitoring improvements described in another IEP Work Plan element (2017-322, Brandes et al 2016).

## 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.*

See DMP for IEP Work Plan element 2018-322.

## 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).*

To be determined

## 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.*

Electronic data will be stored on USBR Bay Delta Office shared network drive that is backed up daily. Some data will likely be incorporated into [SacPAS](#) and the California Department of [Fish and Wildlife's ftp site](#).

## 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.*

Data management and sample archiving has been identified by the Genetics PWT as a major need. This is currently being discussed by the Genetic - Open Data PWT subteam. These data will be shared in an open data, program-independent file type. If an agency determines it would like to make these data available via a public repository, the study will aim to achieve this objective.

Data collected for this project will be delivered in accordance with Project Open Data (<https://project-open-data.cio.gov/>). Data will reside with investigators, who will receive an annual copy of genotype data. Data will be compiled by Reclamation and their contractor.

## 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.*

The IEP Genetics PWT will be a hub where collected genotype data will be shared with investigators annually during the process of result development and data interpretation. Results for samples collected from the Delta fish collection facilities have also been shared through the [Delta Operations for Salmonid and Sturgeon \(DOSS\) web page](#) and are posted online in WY2019 DOSS notes.

These data will be shared in an open data, program-independent file type. If an agency determines it would like to make these data available via a public repository, the study will aim to achieve this objective.

Data collected for this project will be delivered in accordance with [Project Open Data](#). Data will reside with investigators, who will receive an annual copy of genotype data. Data will be compiled by Reclamation and their contractor.

## 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).*

Microsoft Word (.docx) and Excel (.xlsx). Approximate size: 1MB

## Quality Assurance

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

Study collaborators will judge newly available tools based on accuracy, repeatability, robustness, efficiency, and cost.

Results will consist of the likelihood of each sample originating from each of the baseline's reporting groups. The software packet, ONCOR, will be used to assign each sample to a population based on a partial Bayesian procedure. This data analysis procedure is the same as the reporting method used at the CVP/SWP salvage facilities. Negative and re-genotyping a subset of samples will be used to ensure quality of data generated.

## Rights and Requirements

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

Reclamation has an open data policy as required by Open Data Executive Order 13642, and has undertaken initiatives to publish its data in a comparable and shareable manner. Must be compliant with section 508 of Rehabilitation Act.

If you use any of these data in a paper, report, or presentation, please acknowledge US Bureau of Reclamation, NOAA-Fisheries, Cramer Fish Science, UC Davis, US Fish and Wildlife Service, Department of Water Resources, QEDA, and the Interagency Ecological Program.