## Water Agency

County Administration Building 651 Pine Street 4<sup>th</sup> Floor, North Wing Martinez, California 94553

## Contra Costa County



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August 25, 2010

Mr. Jerry Johns Deputy Director California Department of Water Resources P.O. Box 942836, Room 1115-9 Sacramento, CA 94236-0001

**Subject: Request for the latest BDCP Modeling Data** 

Dear Mr. Johns:

Contra Costa County is interested in reviewing, in detail, the latest modeling results for development of the Bay-Delta Conservation Plan (BDCP) and for the related environmental documents. A significant portion of the Delta lies within Contra Costa County and the County and its residents have a major interest in restoring water quality, ecosystem and recreational values, levee protection, and water supply reliability in the Delta. I would appreciate it if you would send me, in electronic form, all the input and output data from the CALSIM and DWR DSM2 modeling studies.

We understand this information has already been provided to the Contra Costa Water District, the City of Antioch and other interested BDCP stakeholders.

Specifically we would like input and output data for the following scenarios:

- Historical operations using the most recent calibration of the DSM2 Delta flow and water quality model
- Water Rights Decision 1641 operations without the BDCP project
- Existing NOAA Fisheries/USFWS biological opinion operations without BDCP project
- Existing NOAA Fisheries/USFWS biological opinion operations with any near-term Delta geometry changes (e.g., tidal marsh restoration) under the proposed BDCP
- Existing NOAA Fisheries/USFWS biological opinion operations with the proposed BDCP longterm Delta geometry changes
- Near-term BDCP proposed operations, with proposed near-term Delta geometry changes
- All long-term BDCP alternatives

## We would like the following CALSIM output data:

- Reservoir storage volumes (end-of-month) for all the major Sacramento and Trinity Basin reservoirs as well as San Luis Reservoir and New Melones Reservoir.
- Monthly and daily Delta inflows at all key Delta boundary locations
- All Delta exports and diversions (monthly and daily)
- Delta outflow (Required, total and surplus)

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• Any related operations data such as monthly and daily QWEST, X2, OMR, E/I Ratio, and barrier operations (south Delta, Delta Cross Channel, and Clifton Court Forebay, etc.)

We would also like all available water quality data, in particular salinity, at all key Delta compliance and analysis locations (from the CALSIM ANN model and from DSM2).

With respect to the DSM2 modeling and any other Delta model, we would like the following output data:

- Tidal flows and velocities (15min) at locations upstream and downstream of all proposed North Delta intake locations, at the Old and Middle River compliance locations, Chipps Island, Jersey Point, Rio Vista, Three-Mile Slough, above and below and in the Delta Cross Channel and Georgiana Slough, Steamboat and Sutter Sloughs, and other key Delta channel locations.
- Corresponding hourly tidal elevation data, including upstream and downstream of tidal barriers and gates, and at the drinking water intakes within the Delta
- All water quality data (EC), e.g., at all the D-6141 compliance locations, all Delta drinking water intakes, all X2 compliance locations (surface EC)

The County also understands that the BDCP water quality modeling includes fingerprinting the various sources of water within the Delta, i.e., the boundary sources and local agricultural return flows. Can you please also supply all of the volumetric and salinity fingerprinting data for the source locations and Delta export and diversion locations.

I would also appreciate it if you could also provide the data in DSS archive format so we can select specific locations and periods for our analysis.

Contra Costa County is also interested in participating in any future BDCP Modeling for Modelers meetings to receive further information and so the County can provide any technical feedback on the modeling and the impact analyses.

Contra Costa County thanks you for your assistance in this matter and looks forward to working with you and the BDCP participants to improve flows, water quality, and ecosystem values in the Sacramento-San Joaquin Delta. If you have questions, please do not hesitate to contact me at (925) 335-1226 or Roberta.Goulart@dcd.cccounty.us.

Sincerely,

Roberta Goulart Executive Officer

Cc: BDCP Steering Committee Armin Munevar, CH2M Hill