

DEPARTMENT OF WATER RESOURCES

1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791



May 21, 2009

VIA E-MAIL AND
FIRST CLASS MAIL

Ms. Jeanine Townsend
Clerk to the Board
State Water Resources Control Board
P.O. Box 100
Sacramento, CA 95812-0100

Re: Reporting and Monitoring Plan Required by ORDER WR 2009-0033

Dear Ms. Townsend,

The Department of Water Resources (Department), along with the U.S. Bureau of Reclamation (Reclamation), submit the enclosed Reporting and Monitoring Plan (Plan) as required by Order WR 2009-0033 (Order), which approved the Department's and Reclamation's petition to consolidate the State Water Project and Central Valley Project places of use under their respective water rights.

Before the Department or Reclamation may initiate actions under the Order, the enclosed Plan must be approved by the Deputy Director. We respectfully request that you submit the Plan to the Deputy Director as soon as possible.

The Department and Reclamation have worked closely with Les Grober in developing the Plan and believe that he is the appropriate contact person at the State Water Resources Control Board regarding this issue.

Please contact me at (916) 653-8826 if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Erick Soderlund".

Erick Soderlund
Staff Counsel

Enclosure

**California Department of Water Resources
and U.S. Bureau of Reclamation
2009 Reporting and Monitoring Plans
For**

**Water Transfers and Exchanges
Implemented Consistent with
SWRCB Order WR 2009-0033
Approving Consolidation of SWP and CVP Places of Use**

Purpose

The purpose of the "Reporting and Monitoring Plan" (Plan) is to meet the reporting and monitoring requirements in ORDER WR 2009-0033 (Order). The Order describes the reporting and monitoring the Department of Water Resources (DWR) and the U.S. Bureau of Reclamation (Reclamation) must do in order to initiate actions under the Order. The Order states, in pertinent part, the following:

DWR and Reclamation shall submit detailed monthly reports of all water transferred or exchanged under the provisions of this order in accordance with a reporting plan developed by DWR and Reclamation. The plan must be approved by the Deputy Director prior to initiating operations under this order. The report for each transfer or exchange shall include the parties to the transfer or exchange, the amount and salinity of water transferred or exchanged, how the water was made available, the facilities required to implement the transfer or exchange, anticipated changes to streamflow or agricultural drainage from the transfer or exchange, and how the transfer or exchange affected the overall water supply of the agency receiving the transfer water. (Order at 12, Condition 3.)

In order to facilitate monitoring of changes to streamflow and agricultural drainage per conditions 3 and 8 above, DWR and Reclamation must provide ongoing reporting of streamflow and salinity during the period of time this order is in effect. The monitoring plan must be approved by the Deputy Director prior to initiating operations under this order. DWR and Reclamation shall consult with Division of Water Rights staff to develop the plan, including selection of appropriate monitoring locations, reporting frequency and data reporting format. (Order at 14, Condition 10.)

If a south-of-Delta transfer or exchange is not specifically identified and described in the petition, the transfer or exchange may occur only after the Deputy Director determines that the transfer or exchange will be implemented in accordance with the conditions of this order, including the time schedule in condition 2 and the criteria set forth in conditions 5 through 9. Requests for the Deputy Director's approval of these transfer or exchanges will only be accepted on Mondays and must be received by 4:00 p.m. Petitioners should anticipate a determination on the requests no sooner than the Friday of the same week at 12:00 noon. Requests should be submitted on the form entitled "Petition for Long Term Transfer of Water/Water Rights" available on the Division's website.

Petitioners should annotate "Request per Consolidated Place of Use Order" at the top of the form. (Order at 13, Condition 4.)

By December 1, 2010, DWR and Reclamation shall also provide a final consolidated summary report of all transfers and exchanges completed under this order. For each transfer or exchange, the summary report shall include the parties involved, the amount of water, the dates the transfer or exchange began and ended, the original point of diversion of the water, and the original and changed places of use. The report must be prepared in such a way as to clearly show the linkage between transfers that are part of an exchange. (Order at 12, Condition 2.)

The Order approved DWR and Reclamation's petition to consolidate the State Water Project (SWP) and Central Valley Project (CVP) (collectively "Projects") places of use under their respective water rights. By allowing the consolidated places of use, the Order provides flexibility to the Projects that will, in turn, facilitate getting water to where it is needed most south of the Delta.

Organization of Plan

The Plan is designed to support the reporting and monitoring required by the Order as well as to establish a clear methodology for preparing and presenting the information to the State Water Resources Control Board (SWRCB) and its staff. As listed above, the Order requires the following:

1. A monthly report that includes the following information:
 - a. Parties involved
 - b. Amount and salinity of water transferred or exchanged
 - c. How the water was made available
 - d. Facilities required to implement the transfer or exchange (project)
 - e. Anticipated changes to streamflow or agricultural drainage from the project
 - f. How the project affected overall water supply of receiving agency.
2. A monitoring plan for streamflow and salinity.
3. A Consolidated summary report of all transfers and exchanges completed under the Order.

The Plan addresses each of these reports/plans. The Plan includes a brief description of the format, data sources, and methodology for determining the information that will be provided to the SWRCB.

1. Project Monthly Report

The Order requires that DWR and Reclamation provide a monthly report to the SWRCB that details who is involved with a project, the quantity and quality of the water involved, how a project is accomplished and the anticipated effects a project will have on streamflow, agricultural discharges or overall water supply of a receiving agency.

DWR and Reclamation will fulfill the monthly reporting requirements as follows:

- 1) Starting June 10, 2009, DWR and Reclamation will submit a report on the 10th of each month for the term of the Order that will describe the anticipated projects for that month. The report will consist of individual Reporting Sheets (see attached template) for each anticipated project. Each Reporting Sheet will include the following information for each project:
 - a) Whether the project has already been identified and described in the petition.¹
 - b) The Parties involved.
 - c) Whether the project is solely a water transfer or is part of an exchange and, if an exchange, whether the water is for repayment purposes.
 - d) Anticipated amount of water to be transferred or exchanged, including a description of how the quantity of water will be measured or estimated.²
 - e) Anticipated date when the water will be transferred or exchanged.
 - f) How the water will be made available.
 - g) Facilities required to accomplish the project.
 - h) A description of how the salinity of the water delivered pursuant to the project will be measured or estimated.
 - i) Anticipated changes to streamflow or agricultural drainage from the project.
 - j) How the project will affect overall water supply for a receiving agency.

¹ DWR and Reclamation recognize that a project not already identified and described in the petition cannot go forward until it has been approved by the Deputy Director. Thus, even though a Reporting Sheet may be submitted at the beginning of a particular month for an "unapproved" project, that project will not go forward until the process described in Condition 4 of the Order has been completed and the Deputy Director has approved the project.

² For Drought Water Bank transfers, carriage loss will already have been deducted.

- 2) For projects that will occur during the month of May 2009, DWR and Reclamation will submit Reporting Sheets for each project by June 1, 2009.
- 3) Starting June 10, 2009, DWR will submit updated Reporting Sheets for the previous month. DWR and Reclamation will also provide the total amount of water transferred or exchanged under the Order during the previous month. Specifically, the updated Reporting Sheets will provide the following information:
 - a) Actual amount of water transferred or exchanged (daily or as otherwise recorded);
 - b) Salinity of water transferred or exchanged³;
 - c) Actual date the water was transferred or exchanged; and
 - d) Any changes to streamflow or agricultural drainage from the project.

This information will also be synthesized and submitted in electronic form in a spreadsheet "Monthly CPOU Report" (sample attached).

2. Monitoring Plan

DWR and Reclamation are required to provide ongoing reporting of streamflow and salinity data during the period of time the Order is in effect. DWR and Reclamation will fulfill these monitoring requirements as follows:

- 1) Monitoring Locations. DWR and Reclamation have attached to this Plan a spreadsheet that includes the monitoring stations that will be reported as part of the monitoring plan. Specifically, the monitoring stations identified in the spreadsheet are located on the mainstem of the San Joaquin River. After reviewing the proposed south-of-Delta transfers, it is evident from the geographic location, amount of transferred water, total water supply and nature of irrigation method that most, if not all, proposed transfers and exchanges will not have an effect on agricultural drainage. The mainstem San Joaquin River sites were selected based on the availability of continuous flow and salinity monitoring at stations immediately downstream from points where agricultural drainage from recipient lands could enter the River. Importantly, if it is determined by either the SWRCB staff or DWR and

³ The salinity of the water transferred or exchanged will be determined by taking the salinity measurement from the facility from which the water came (e.g., at Banks/Clifton Court, Jones, O'Neil Forebay, other appropriate check along the DMC or California Aqueduct, Friant Dam, etc.) on the days the water was delivered. For groundwater, the salinity will be reported for the location at which it is pumped into a conveyance facility, if measured at that location. A best estimate should be provided and a note provided if no salinity monitoring is available for transferred or exchanged water.

Reclamation that a “new” project has the potential to affect streamflow or agricultural drainage in an area that is not monitored by the identified monitoring locations, DWR and Reclamation will add monitoring locations as appropriate.

2) Reporting Frequency and Data Reporting Format. Starting June 10, 2009, and on the 10th of each month thereafter, DWR and Reclamation will submit a monitoring report to the SWRCB that will include data from the attached monitoring stations provided in the attached spreadsheet. The report will include the previous month’s daily averages (or other measure as recorded) for both flow (cfs) and salinity (EC) for the following:

- a. San Joaquin River At Crows Landing Bridge
- b. San Joaquin River At Vernalis

The report will also include data on the total monthly amount and daily salinity of water delivered to various watersheds or basins located in the San Joaquin Valley. The report will include the following:

- a. Total monthly amount and daily EC for deliveries from the California Aqueduct (CA) to areas tributary to the San Joaquin River watershed
- b. Total monthly amount and daily EC for deliveries from the Delta Mendota Canal (DMC) to areas tributary to the San Joaquin River watershed
- c. Total monthly amount and daily EC for deliveries from the CA to areas tributary to the Tulare Lake Basin
- d. Total monthly amount and daily EC for deliveries from the DMC to areas tributary to the Tulare Lake Basin
- e. Total monthly amount and daily EC for deliveries from the CA to areas other than SJR watershed and Tulare Lake Basin
- f. Total monthly amount and daily EC for deliveries from the DMC to areas other than SJR watershed and Tulare Lake Basin

Salinity data for the deliveries should be based on the most applicable monitoring location – Banks, Jones, O’Neil, appropriate check, or other appropriate and available site. Data will be provided as a daily measurement or however else recorded.

The delivery amounts will be expressed in acre-feet. Deliveries are reported on a monthly basis. Since the daily EC measured at the above locations is not expected to vary greatly over the course of a month, providing total monthly amounts of water delivered is not expected to cause inaccuracies of the overall data collected.

3. Consolidated Summary Report

By December 1, 2010, DWR and Reclamation must provide a final consolidated summary report of all transfers and exchanges completed under the Order. DWR and Reclamation intend to submit this report in a table format. The summary report will include the following information:

- 1) Parties involved
- 2) Whether the project was a transfer or exchange
- 3) The amount of water transferred
- 4) The date the water was transferred
- 5) The original point of diversion of the water
- 6) The original place of use
- 7) The changed place of use
- 8) The amount of water repaid (if an exchange)
- 9) The date the repayment water was delivered (if an exchange)

REPORTING SHEET (TEMPLATE)

Transfer/Exchange:

Identification (for Monthly CPOU Report table):

1) Was the Transfer/Exchange Identified in the Petition _____

2) Parties to Transfer/Exchange

3) Is the Project a Transfer or Exchange _____

4) If the Project is an Exchange, is the Transfer for Repayment Purposes _____

4a) if yes, which previous transfer is this a repayment for _____

5) Amount of Water Transferred/Timing of Transfer

Anticipated: _____

Actual: _____

7) Description of how salinity (EC) of the transferred water will be estimated: _____

6) Description of Transfer

8) Facilities Required to Implement Transfer

9) Combined Water Supply of Receiving Agency

Receiving Agency _____

Water Supply Component	Acre-feet
CVP (or SWP) Contract Supply	
Groundwater	
Transfers/Exchanges	
Total 2009 Supply	

(note if this is an estimate or final data)

Locations and Information to be Included in Monthly Monitoring Report

Station ID	CDEC ID	River Stations	Operator	Continuous Monitoring		
				Telemetered	Flow	EC (salinity)
San Joaquin River Mainstem Stations:						
B0-7250	SCL	San Joaquin River At Crows Landing Bridge	USGS	X	X	X
B0-7020	VNS	San Joaquin River At Vernalis	USGS/DWR	X	X	
	VER	Vernalis (USBR)	USBR	X		X

Source and Destination of Deliveries:

DMC Deliveries to San Joaquin River Watershed
CA Deliveries to San Joaquin River Watershed
DMC Deliveries to Tulare Lake Basin Watershed
CA Deliveries to Tulare Lake Basin Watershed
DMC Deliveries to other areas
CA Deliveries to other areas

Monthly CPOU Report

Quantity of Water Delivered (AF)

Date	Transfer A	Transfer B	Transfer C	Transfer D	etc.
5/21/2009					
5/22/2009					
5/23/2009					
5/24/2009					
5/25/2009					
5/26/2009					
5/27/2009					
5/28/2009					
5/29/2009					
5/30/2009					
5/31/2009					
6/1/2009					
6/2/2009					
6/3/2009					
6/4/2009					
6/5/2009					
6/6/2009					
6/7/2009					
6/8/2009					
6/9/2009					
6/10/2009					
6/11/2009					
6/12/2009					
6/13/2009					
6/14/2009					
6/15/2009					
6/16/2009					
6/17/2009					
6/18/2009					
6/19/2009					
6/20/2009					
6/21/2009					
6/22/2009					

Monthly CPOU Report

Quality (EC) of Water Delivered

Date	Transfer A	Transfer B	Transfer C	Transfer D	etc.
5/21/2009					
5/22/2009					
5/23/2009					
5/24/2009					
5/25/2009					
5/26/2009					
5/27/2009					
5/28/2009					
5/29/2009					
5/30/2009					
5/31/2009					
6/1/2009					
6/2/2009					
6/3/2009					
6/4/2009					
6/5/2009					
6/6/2009					
6/7/2009					
6/8/2009					
6/9/2009					
6/10/2009					
6/11/2009					
6/12/2009					
6/13/2009					
6/14/2009					
6/15/2009					
6/16/2009					
6/17/2009					
6/18/2009					
6/19/2009					
6/20/2009					
6/21/2009					
6/22/2009					