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State of California
State Water Resources Control Board
DIVISION OF WATER RIGHTS
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DIVISION OF WATER RIGHTS
SACRAMENTO

ENVIRONMENTAL INFORMATION
FOR PETITIONS
(THIS IS NOT A CEQA DOCUMENT)

APPLICATION NO. 18085 PERMIT NO. 13856 LICENSE NO.

1. DESCRIPTION OF PROPOSED CHANGES TO EFFECTUATE TEMPORARY WATER TRANSFER

Petitioner Placer County Water Agency ("PCWA") proposes to deliver 12,000 acre-feet ("AF") of surface water stored in PCWA's Middle Fork Project ("MFP") reservoirs on the Rubicon and American Rivers to Co-Petitioner Sacramento Suburban Water District ("SSWD") for SSWD's transfer to the Drought Water Bank ("DWB") for domestic, municipal and industrial, and irrigation uses within the service area of the State Water Project ("SWP") and Central Valley Project ("CVP"). SSWD has a long-term contract with PCWA, under which PCWA delivers surface water supplies to SSWD at Folsom Reservoir, which SSWD then rediverts for treatment and conveyance to its service area for municipal and industrial uses. SSWD's predecessor, Northridge Water District, acquired this contractual water entitlement from PCWA in 1995 to begin operating a conjunctive use program in 1998. To make the 12,000 AF of its PCWA contractual entitlement available in Folsom Reservoir to the DWB ("Transfer Water"), SSWD would pump groundwater to serve its customers' demands. To accomplish this groundwater substitution transfer, the following temporary changes in the place of use and points of rediversion under PCWA's MFP water right permit are needed:

- 1) Allow temporary storage of Transfer Water in Folsom Reservoir.
- 2) Allow re-diversion of Transfer Water at the State Water Project's Clifton Court Forebay, Harvey O. Banks Pumping Plant and Barker Slough Pumping Plant, and the CVP's C.W. "Bill" Jones Pumping Plant and Contra Costa Canal (the SWP and CVP Facilities") as determined by DWR and U.S. Bureau of Reclamation ("Reclamation").
- 3) Allow use of Transfer Water within the SWP's and CVP's service areas.

Under the proposed transfer, PCWA would deliver water to SSWD in Folsom Reservoir from May 1, 2009 through December 31, 2009, however, the main transfer period would likely be between June and September 2009. The Transfer Water would flow into Folsom Reservoir where it may be rediverted and stored until it can be conveyed through, and diverted from, the Sacramento-San Joaquin Delta ("Delta"). The California Department of Water Resources

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("DWR") would withdraw the Transfer Water from Folsom Reservoir when it can be rediverted at the SWP and CVP Facilities and credit SSWD for all water diverted, less a depletion factor.

In order to facilitate this transfer, DWR and Reclamation will coordinate SWP and CVP operations to redivert the Transfer Water from Folsom Reservoir and convey it through the Delta to the SWP and CVP Facilities. After diversion from the Delta, the Transfer Water will either be put to immediate use in the SWP and CVP service areas, or stored in San Luis Reservoir or other facilities for later use within those service areas.

The 12,000 acre-feet of water Transfer Water would be withdrawn from Folsom Reservoir on the Middle Fork of the American River to points of rediversion at the SWP and CVP Facilities. Because of various constraints, it is most likely that the Transfer water will be rediverted and conveyed through SWP facilities. Conveyance of the Transfer Water will be scheduled in cooperation with DWR and Reclamation such that it will use available surplus release, pumping and transmission capacity and will not disrupt normal CVP or SWP operations.

SSWD is able to divert its PCWA contractual entitlement in 2009. Under the Sacramento Water Forum Agreement executed by SSWD and other regional water purveyors and stakeholders, SSWD may divert and use its PCWA entitlement in any year when inflow to Folsom Reservoir is greater than 950,000 AF. According to DWR's May 2009 Bulletin 120, the March through September 2009 inflow into Folsom Reservoir is projected to be 1,395,000 AF. To project inflow during the March – November time period, the Water Forum assumes 30,000 AF per month of inflow in October and November. Thus, when both projections are combined, total inflow is estimated to be 1,455,000 AF during the March through November 2009 period. Because the projected March through November inflow exceeds 950,000 AF, SSWD may make the water it would otherwise be entitled to receive available to the Drought Water Bank.

This proposed transfer would require temporarily adding Reclamation's Folsom Reservoir facility and the SWP and CVP Facilities as new points of rediversion under Permits 18085 and 18087. The service areas of the SWP and CVP would be temporarily added to the place of use of Permits 18085 and 18087.

Only existing facilities will be utilized to accomplish this transfer. The project does not involve construction or modification of any facilities. Because the DWB is being conducted to replace existing water demands that otherwise would be unfulfilled because of cutbacks in SWP and CVP contractor's entitlements, land uses within the PCWA, SWP and CVP service areas will not change as a result of this transfer. This transfer is critically needed to provide water supplies to SWP and CVP water users, which have experienced several years of below average rainfall and reduced water supply allocations due to a combination of dry hydrology and increased regulatory restrictions on SWP and CVP pumping. Because the proposed transfer is a one-year temporary transfer, and because its purpose is drought relief to make up for these lost supplies, the proposed transfer will not result in additional land use changes.

(For more details see Petition)

2. COUNTY PERMITS

a. Contact your county planning or public works department and provide the following information:

Person contacted: Keith DeVore **Date of contact:** March 25, 2009

Department: Sacramento County Dept. of Water Resources **Telephone:** 916-874-2268.

County Zoning Designation:

N/A.

Are any county permits required for your project?

Yes, under Sacramento County Water Agency Code section 3.40.090.

b. Have you obtained any of the required permits described above?

Yes. Copy of the county permit is attached as Attachment 1.

3. STATE/FEDERAL PERMITS AND REQUIREMENTS

a. Check any additional state or federal permits required for your project:

Neither PCWA nor SSWD requires additional state or federal permits for the proposed transfer. This water transfer will be accomplished within the parameters of all applicable state and federal laws, regulations, and permits.

b. For each agency from which a permit is required, provide the following information:

N/A.

c. Does your proposed project involve any construction or grading-related activity that has significantly altered or would significantly alter the bed or bank of any stream or lake?

No.

d. Have you contacted the California Department of Fish and Game concerning your project?

Yes. A copy of this petition was sent to the Department of Fish and Game ("DFG") North Central Regional Manager Sandra Morey at 1701 Nimbus Road, Rancho Cordova, CA 95670 Phone: (916) 358-2899, FAX: (916) 358-2899. PCWA has not received DFG's opinion regarding the project, but will provide this information to the appropriate State Water Resources Control Board ("SWRCB") staff when available. PCWA expects DFG to indicate that the transfer will not unreasonably affect fish or wildlife resources because very similar transfers have been done in the past with no adverse impacts identified by DFG. In fact, in the past DFG

has advocated such transfers as part of the transfer of water to the CAL-FED Environmental Water Account ("EWA").

4. ENVIRONMENTAL DOCUMENTS

a. Has any California public agency prepared a CEQA environmental document for your project?

No. CEQA is not required for this proposed temporary water transfer because temporary water transfers under Water Code § 1725 are statutorily exempt from CEQA. (Water Code § 1729; CEQA Guidelines § 15282(u)). However, see response to 4.c below regarding relevant environmental documents.

b. If YES, submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the California public agency.

N/A

c. If NO, check the appropriate box and explain below, if necessary:

No environmental document pursuant to CEQA is required for the proposed water transfer that is the subject of this petition. Pursuant to Water Code § 1729, "a proposed temporary change under this article shall be exempt from the requirements of Division 13 (commencing with Section 21000) of the Public Resources Code." (See also CEQA Guidelines § 15282(u).)

A relevant environmental document prepared for a similar project is Reclamation's Finding of No Significant Impact ("FONSI") for the DWB, dated April 14, 2009, and attached hereto as Attachment 2. The FONSI considered the effects of the 12,000 AF transfer by SSWD to the DWB via PCWA's MFP as part of its analysis of the DWB.

5. WASTE/WASTE WATER

a. Will your project, during construction or operation, (1) generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation?

No. This transfer project will not require any construction and its operation will not generate waste or wastewater containing sewage or chemicals of any kind. As explained in Section 8 of this Environmental Information Form, the amount of water proposed for transfer will only slightly increase anticipated 2009 baseline water flows in the American and Sacramento Rivers and in the Delta in this dry year and will be within historical average flows. This negligible increase in 2009 flows will not cause erosion, turbidity, or sedimentation.

b. Will a waste discharge permit be required for your project?

No.

c. What method of treatment and disposal will be used?

N/A.

6. ARCHEOLOGY

a. Have any archeological reports been prepared on this project?

No. The proposed transfer would not alter the existing physical conditions within the American and Sacramento Rivers, or the Delta, in any way that could impact or affect archeological resources within those watersheds.

b. Will you be preparing an archeological report to satisfy another public agency?

No. See response to Question 6a.

c. Do you know of any archeological or historic sites located within the general project area?

No. The project area is very large and there may be archeological or historic sites along the riverbanks or underwater in the American and Sacramento Rivers and in the Delta, as well as at Folsom Reservoir. However, as explained in response to Question 6a and elsewhere in this report and the associated application materials, this transfer project will operate within existing facilities and land uses and therefore will cause no effects to any such resources within the project area.

7. ENVIRONMENTAL SETTING

Attach three complete sets of color photographs, clearly dated and labeled, showing the vegetation that exists at the below-listed three locations. For time extension petitions, the photographs should document only those areas of the project that will be impacted during the requested extension period.

a) Along the stream channel immediately downstream from the proposed point(s) of diversion.

The proposed points of redirection are the SWP and CVP Facilities in the southern Sacramento-San Joaquin Delta. There is no stream channel immediately downstream of the SWP and CVP points of diversion because they are the beginning of the California Aqueduct, North Bay Aqueduct, Delta-Mendota Canal and Contra Costa Canal, which all are man-made conveyance facilities. A map of the location of the SWP and CVP Facilities is attached as Attachment 3 hereto.

b) Along the stream channel immediately upstream from the proposed point(s) of diversion.

The stream channels immediately upstream from the SWP and CVP Facilities comprise various sloughs and channels in the Sacramento-San Joaquin Delta ("Delta"). (See Attachment 4.) Because of the large geographic area within the Delta, it is not practical to attach photographs. The Delta is an estuarine ecosystem of sloughs and channels that has been heavily modified by

agriculture and other human uses for approximately 150 years. During the past 50 years in particular, the natural environment of the Delta has been significantly altered by the construction and maintenance of a vast network of flood control levees. Additionally, dredging and point and non-point water discharges to the Delta have also impacted the environmental setting of the Delta. Added to these physical effects are the serious adverse biological effects of numerous aquatic invasive species, including fish, invertebrates, and plants. No vegetation within the Sacramento-San Joaquin Delta should be adversely affected by the slight increase in anticipated 2009 flows that may occur as a result of this transfer.

c) At the place(s) where the water is to be used.

The water will be used in the SWP and CVP service areas. The service area of the SWP is shown on Map 1878 – 1, 2, 3 and 4 on file with the Division of Water Rights under Application 5630. The service area of the CVP is shown on Map 214-208 – 12581 on file with the Division of Water Rights under Application 5626. Because of the large geographic area encompassed by this service area, it is not practical to attach photographs. Similarly, this area contains various diverse assemblages of native and non-native vegetation and associated habitat types. This water transfer will not affect these environmental resources. By providing additional water supplies during a period of water shortage, this transfer may provide water that supports vegetation, particularly man-made habitats such as outdoor landscaping, orchards and other permanent vegetated areas with the SWP and CVP service areas.

8. ADDITIONAL CONSIDERATIONS

PCWA recognizes that the SWRCB serves an important public duty and must base its approval of this petition on a variety of factors including a determination that it is in the public's interest and that it will not injure other legal users of water or unreasonably affect fish, wildlife and other instream beneficial uses. (Water Code, § 1725.) PCWA provides the following environmental information to further assist and support the SWRCB in its determination that approval of the petition will not unreasonably affect fish, wildlife and other instream beneficial uses. Some of the conclusions and discussion in this section are supported by Reclamation's analyses contained in Attachment 2.

The following table describes the major vegetation communities surrounding PCWA's MFP reservoirs and the Rubicon and American River sections that will carry released water: (See next page)

Vegetation Communities Commonly Occurring within PCWA's MFP Project Area:

<u>Tree Dominated Communities</u> Mixed Conifer Sierran Mixed Conifer White Fir Klamath Mixed Conifer Douglas-Fir Jeffrey Pine Ponderosa Pine Montane Hardwood Valley Foothill Hardwood Blue Oak Woodland Coastal Oak Woodland Valley Foothill Hardwood-Conifer	<u>Shrub Dominated Communities</u> Bitterbrush Sagebrush Mixed Chaparral <u>Herbaceous Dominated Communities</u> Annual Grassland Fresh Emergent Wetland <u>Aquatic Communities</u> Riverine Lacustrine <u>Developed Communities</u> Urban
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(Literature source: Mayer, K.E., and W.F. Laudenslayer, Jr., (eds). 1988. A Guide to Wildlife Habitats of California. California Department of Forestry and Fire Protection, Sacramento. 166 pp.)

Vegetation

No vegetation will be affected by the release of the additional water for this transfer. Therefore, wildlife habitat will not be affected by the proposed additional releases of Transfer Water from PCWA's reservoirs. Water use in the proposed new place of use would support the same land-uses that currently exist within the SWP and CVP service areas. This transfer will not cause additional acreage to be developed or put to use, and it will not cause a change or intensification in existing land uses. The transferred water will simply provide much needed water supplies this summer and fall that have been lost due to the synergistic effects of three consecutive years of dry hydrology and regulatory pumping restrictions on SWP and CVP operations.

Water Quality

The proposed transfer may improve water quality by slightly increasing flows and adding high quality snowmelt to existing water bodies. While the rate and timing of flows may change in the lower American River, the magnitude of any changes would be slight and within historical norms. There is no evidence that the proposed transfer will negatively affect water quality in any unreasonable, significant, or measurable way.

The DWR and Reclamation also will comply with all existing state and federal regulations, including Decision 1641 and any related SWRCB orders, State and Federal endangered species acts, all biological opinions and take permits issued by the U.S. Fish and Wildlife Service and National Marine Fisheries Service, and any applicable court orders. This compliance will ensure that impacts to water quality are minimized and within existing legal requirements.

Wildlife and Fish Resources

Reclamation has agreed to implement the reasonable and prudent alternatives that will regulate CVP pumping in 2009, contained in the U.S. Fish and Wildlife Service's 2008 Biological Opinion on the effects of combined SWP and CVP operations on the Delta smelt. (See

Attachment 5.) DWR's SWP pumping must also comply with these reasonable and prudent alternatives. Additionally, there is close monitoring and coordination between DWR, Reclamation, USFWS, and the National Marine Fisheries Service ("NMFS"), and DFG regarding the effects of combined project operations on the host of species inhabiting the Delta and its tributaries. Similar coordination occurs on the lower American River. This allows the relevant agencies to quickly deal with circumstances as they arise, and to avoid significant impacts to species of special concern (i.e., listed and protected under state or federal laws).

Given the small amount of water involved in this transfer relative to the amount of water in the system and pumped by the projects, it is not expected that any fish species will be adversely affected by the proposed additional releases from PCWA's reservoirs. Almost identical change petitions and transfers have been granted by the SWRCB in the past to support acquisition of water assets by the EWA. For example, in 2001 the SWRCB issued Order WR 2001-18-DWR, which approved the transfer of 20,000 AF from PCWA's Middle Fork Project reservoirs to the California Department of Water Resources to support the EWA. A copy of this order is attached as Attachment 6. Notably, that order found that because "the water proposed for transfer would temporarily benefit fishery resources by providing increased flows and decreased water temperatures in a critically dry year there is no apparent reason why increased flows during the summer would harm fishery resources." (Order; Art. 4.0, p. 2.) Similar circumstances exist this year, and if the proposed transfer causes any effect on fish, the effect should be the same beneficial effect noted by the SWRCB during the 2001 transfer.

The amount of change in streamflow, water quality, timing of diversion or use, return flows, and effect on legal users of water will be minimal and will cause no adverse economic, physical, or environmental effects. Approximately 190,000 AF will be released from the MFP during the transfer period, including the Transfer Water. After release, the 12,000 AF of Transfer Water will flow first to Folsom Reservoir and then be diverted to points of redirection in the south Delta at the SWP and CVP Facilities. Once withdrawn from Folsom Reservoir, the 12,000 AF of Transfer Water will comprise a diminishingly smaller increment of water when compared to the average flows in the lower American and Sacramento Rivers, and the Delta. Data from Reclamation's Central Valley Operations Office showing the average Delta outflow and CVP and SWP pumping during the May through October period support this conclusion.

Because Reclamation cannot finalize its official reports and flow calculations until months after the fact, data from May and June 2008 and July through October 2007 are used to illustrate likely baseline conditions to evaluate the potential effect of the proposed transfer. May through October is the relevant time period because water flows during this period are the most susceptible to operational changes as a result of water transfers. This is largely due to the fact that the normal winter storms that alter and often dominate the hydrology of the Delta and its tributaries do not usually occur until November and later; therefore, the Delta and its tributaries are largely controlled by water project operations before these storms occur.

The May – October data provided in this application are the most recent data for the relevant months provided by Reclamation's Central Valley Operations Office in its monthly reports (available at http://www.usbr.gov/mp/cvo/pub_rpts.html). Furthermore, these data are considered representative of likely conditions in 2009 because both 2007 and 2008 were similarly dry or critically dry years. Also, 2007 and 2008 were years in which the SWP and CVP

were subject to restrictions on allowable reverse flows in Old and Middle Rivers, which restricted SWP and CVP Delta pumping in order to prevent "take" of the Delta smelt under the U.S. Endangered Species Act. Similar restrictions on reverse flows and related pumping constraints, imposed by the U.S. Fish and Wildlife Service, will likely apply in 2009 as well. Thus, these data provide the Board with information to review the proposed transfer in light of the potential hydrologic conditions likely to occur during the proposed transfer as required by Water Code § 1727(b)(1).

The following table, derived from data in Attachment 7, presents the average Delta outflow and pumping rates in cubic feet per second ("cfs") during the period May through October, which constitutes the primary portion of the proposed transfer period:

2007-2008 Average Daily Delta Outflow and Combined SWP/CVP Pumping in Acre-Feet per Day.*

	May	June	July	August	September	October
Lower American River (AF/day)	2,592	6,795	7,464	5,631	3,431	2,636
Sacramento River at Freeport (AF/day)	17,077	21,996	37,753	34,016	31,023	21,253
Delta Inflow (AF/day)	25,614	26,976	41,983	38,261	34,793	25,479
Combined SWP/CVP Pumping (AF/day)	3,945	4,344	22,575	22,298	19,507	14,953
Delta Outflow (AF/day)	17,093	15,300	11,466	8,051	10,726	8,011

* Data from Reclamation operations reports (See Attachment 7 and text for explanation).

The 12,000 AF of Transfer Water will not be transferred all at once, but will be withdrawn from Folsom Reservoir and conveyed across the Delta to the SWP and CVP Facilities over a period of time during the remainder of 2009, all within existing pumping and other regulatory constraints. As indicated from the table above, in comparison to the amount proposed for transfer, much larger volumes of water are expected to move through the lower American and Sacramento Rivers and the Delta. Thus, the transfer of an additional 12,000 AF over several months would

increase flows by only a very small amount of the total in any of the water bodies listed and would also cause only a very small increase to Delta pumping. Thus, while the exact operations required to implement the proposed transfer cannot be stated with precision at this time, the transfer will only negligibly affect streamflows, water quality, timing of diversion or use, return flows, and effect on legal users of water.

The hydrologic systems and project operations affected by this transfer experience wide fluctuations in river stages and pumping operations due to natural events and because of other water project operations such as compliance with D-1641. The data presented represent the low flow and low pumping circumstances that are likely to occur in 2009. The fact that river flows and pumping rates are greater in average and wetter years also supports the conclusion that slightly increased flows caused by this transfer, with a concomitant increase in SWP and CVP pumping rates, will not significantly or unreasonably affect streamflow, water quality, timing of diversion or use, return flows, or other legal users of water. This is particularly true in this case because the 12,000 AF of Transfer Water is intended to replace cutbacks in contractual entitlements that normally would be conveyed by the SWP and CVP to their contractors and water users downstream of the Delta.

Because of the minimal changes in existing conditions, other legal users of water will not be adversely affected by this transfer project. The only effects of this transfer on other legal users of water will be a very slight increase in river flows than otherwise would occur this year because of additional releases from Folsom Reservoir of PCWA water, which otherwise would be withdrawn by SSWD, to the proposed points of redirection at the SWP and CVP Facilities. Furthermore, when the Transfer Water is diverted by the SWP and CVP Facilities, all existing state and federal regulations will be complied with, including Decision 1641, State and Federal endangered species acts, and all biological opinions and take permits.

The transfer period at issue here occurs during a time when delta smelt and longfin smelt are not at high risk of entrainment at the SWP pumps because during the July to September period when a majority of the Transfer Water is likely to be conveyed through the Delta, the majority of the populations of both species are further downstream at the confluence of the Sacramento and San Joaquin Rivers or in the Suisun Marsh or Napa River areas, all of which are beyond the zone of influence of the SWP and CVP pumps. This means that slightly increased SWP and CVP pumping will not have a meaningful effect on populations of these species.

Additionally, salmonid entrainment by the SWP is generally low or absent during the summer and early fall months during which time the majority of Transfer Water will be conveyed through the Delta and diverted for export by the DWB. This is partially due to the fact that outmigrating smolts have already left the freshwater system by this time, and the projects do not entrain a high number of adult salmonids because they are strong swimmers able to avoid entrainment influences of SWP and CVP pumping. This fact, coupled with the fact that any SWP and CVP pumping will only be slightly increased and well within the range of current and past pumping rates and all regulatory requirements, leads to a conclusion that salmonids will not be unreasonably or significantly affected by the proposed transfer.

For the reasons stated above, other wildlife and plant species in the project area should not be affected by the slight changes in streamflows caused by this transfer.

Groundwater Substitution Program

The 12,000 AF of Transfer Water will be made available by SSWD through a groundwater substitution program. SSWD will pump an equivalent amount of groundwater to serve municipal and industrial demands within the District's North Service Area in lieu of using treated surface water diverted from Folsom Reservoir under its PCWA contractual entitlement. SSWD owns and operates all of the wells that will be pumped for this program. The wells that SSWD will use are all located in its North Service Area, and are shown on Attachment 8. SSWD's and the Department of Public Health's groundwater well identification numbers are provided in Attachment 9. All SSWD production wells, except one, are electric powered and therefore no adverse air quality impacts are expected from this pumping.

Historically, SSWD's predecessor districts, Northridge Water District and Arcade Water District, served exclusively groundwater to their customers. Northridge served what is now most of SSWD's North Service Area and was the agency that acquired and began using surface water from PCWA in 1998. The SSWD North Service area was mainly developed in the 1950s through the 1970s and is built out. Therefore, this area has had relatively steady demand for many years and previous years' production and use figures provide reasonable forecasts for 2009 supply and demand. In the period 2001 through 2008, SSWD diverted and delivered for customer use an average of 13,047 AF each year of treated PCWA surface water in lieu of pumping and delivering an equivalent amount of groundwater. In that period, SSWD used a high of 16,938 AF of PCWA surface water in 2002 and a low of 4,163 AF in 2007. SSWD's historic deliveries of PCWA surface water to its North Service Area customers are shown in Attachment 10.

Since 1998, SSWD has not pumped the quantities of groundwater that it pumped prior to 1998 because of the availability of significant quantities of PCWA surface water to the North Service Area. In 2007, however, limited PCWA water was available and SSWD only received 4,163 AF of surface water that year. During 2007, SSWD produced a total of 13,962 AF of groundwater in the June through September 2007 period when no PCWA surface water was available. The amount of 2007 groundwater production and use also is comparable to the amounts pumped and used in SSWD during the June through September period before PCWA surface water became available in significant quantities starting in 1998. This demonstrates that SSWD has capacity to produce a sufficient amount of groundwater to meet current demands in its North Service Area during the June through September period when it anticipates transferring its PCWA surface water to the Drought Water Bank. Historic and 2007 SSWD North Service Area groundwater production is shown in Attachment 11.

The North Service Area wells that SSWD will use in its groundwater substitution program are integrated into its water system. SSWD will use those wells to meet demands as they occur within the North Service Area. SSWD has provided DWR and Reclamation with technical information concerning the wells that will be pumped for the groundwater substitution transfer to the DWB. SSWD will report monthly groundwater production and use to the DWB for each well used in the program, as well as measurements of PCWA surface water that is diverted to the DWB.

SSWD is a member of the Sacramento Groundwater Authority and its conjunctive use program is operated consistent with SGA's groundwater management plan. The SGA groundwater management plan was originally adopted in 2003 pursuant to Water Code section 10753.7 and amended in December 2008. SGA will be submitting a letter supporting SSWD's proposed groundwater substitution transfer to the DWB as consistent with the SGA groundwater management plan, including the lack of any expected impacts to local groundwater from the transfer due to SSWD's on-going conjunctive use efforts. SSWD's active importation of treated surface water into the North Service Area for use by its customers has stabilized groundwater levels in the basin. In the past two years, groundwater levels have begun to increase slightly. Groundwater levels in SSWD's North Service Area are shown in Attachment 12. The hydrographs correspond to monitoring wells A (09N05E14Q002M), B (10N06E21F002M), and C (09N05E12L001M) in Attachment 8. Because of SSWD's active conjunctive use efforts, it does not anticipate that its increased pumping in 2009 for the DWB transfer will not adversely impact other groundwater pumpers in an adjacent to the North Service Area or create impacts such as land subsidence.

SSWD has complied with Water Code section 1732, which requires an agency that proposes to engage in a groundwater substitution transfer to comply with Water Code section 1745.10 as a condition of such transfer. Attached to the accompanying petition as Attachment 13 is Resolution 09-07 adopted on April 20, 2009 by SSWD's Board of Directors, which makes findings that SSWD's proposed transfer of the Transfer Water is consistent with Water Code section 1745.10(b) because the transfer will not create or contribute to conditions of long-term overdraft in the North Sacramento Groundwater Basin.

CERTIFICATION

I hereby certify that the statements I have furnished above and in the attached exhibits are complete to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge.


Date: May 15, 2009

KRONICK, MOSKOVITZ, TIEDEMANN & GIRARD
Attorneys for Placer County Water Agency

By: 
Hanspeter Walter

Date: May 15, 2009

BARTKIEWICZ, KRONICK & SHANAHAN
Attorneys for Sacramento Suburban Water District

By: 
Joshua M. Horowitz

#2009-002

**Application to Permit the Export of Groundwater or Surface Water out of Sacramento County
(SCWA Code, Title 3, Section 3.40.090 Groundwater and Surface Water Export)**

Name and Address of Applicant: Sacramento Suburban Water District
c/o Robert Roscoe, General Manager
3701 Marconi Avenue, Suite 100
Sacramento, CA 95821-6348

Owner of Source: Placer County Water Agency
PO Box 6670
144 Ferguson Road
Auburn, CA 95804

Owner of Place of Use: Placer County Water Agency
Sacramento Suburban Water District - North Service Area

**Consulting Engineer:
(Plan and Design of Work)** Tuly & Young, Inc.
3600 American River Drive, Suite 280
Sacramento, CA 95884

Description of proposed action: Please see transfer proposal submitted to SCWA under separate cover on March 26, 2008.

Location of source(s): Middle Fork American River

Point(s) of use: Folsom Lake (point of diversion)
Sacramento Suburban Water District - North Service Area (place of use under PCWA/SSWD Wholesale Agreement)

Justification for proposed action: Please see transfer proposal submitted to SCWA under separate cover on March 26, 2008.

To Be Completed by the Sacramento County Water Agency

Is proposal in conformance with County water planning policies adopted and revised from time to time by the County and the Sacramento County Water Agency?

Yes No Comment: _____

Will proposal impose liability on the County or the Water Agency?

Yes No Comment: _____

Does proposal cause adverse impacts on the source, the area of use, or the environment?

Yes No Comment: _____

Short term, less than one year

Is this proposal consistent with the general plan of the County of Sacramento, the water plan of the Sacramento County Water Agency?

Yes No Comment: _____

Is this proposal consistent with a specific plan of the County or Water Agency which may be affected by the work or activity?

Yes No Comment: _____

No impact.

Pursuant to the findings contained herein, this Application is Approved Denied

Permit No: 2009-002

Sacramento County Water Agency

Signature: _____

Keith DeVore

Name: _____

Keith DeVore

Title: _____

Director of Water Resources

Date: _____

4-30-09

FINDING OF NO SIGNIFICANT IMPACT

2009 DROUGHT WATER BANK

United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region
Sacramento, California

Recommended: Rebecca Victorine 4/14/09
Natural Resource Specialist Date

Concur: [Signature] 4/14/09
Program Manager Date

Concur: [Signature] 4/14/09
Program Management Branch Chief Date

Concur: [Signature] 4/14/09
Regional Environmental Affairs Officer Date

Approved: [Signature] 4/14/09
Regional Resources Manager Date

FONSI Number: 09-03-MP

2009 DROUGHT WATER BANK

**Bureau of Reclamation
Mid-Pacific Region
Sacramento, California**

BACKGROUND

Since 2007 and 2008 were critically dry years and reservoir storage levels are expected to be low in 2009, it is likely that some California water providers will need to supplement local and imported supplies with water transfers from willing sellers. Based on the initial water supply allocations from the CVP and SWP, the nature of the supply shortage will likely severely limit supply for existing agricultural use and limit supply for municipal needs including minimum health and safety requirements. To help facilitate the transfer of water throughout the State, the Department of Water Resources (DWR) proposes to initiate a 2009 Drought Water Bank (DWB). To implement the DWB, DWR will purchase water from willing sellers upstream of the Sacramento-San Joaquin Delta (Delta). This water will be conveyed, using State Water Project (SWP) or Central Valley Project (CVP) facilities, to water users that are at risk of experiencing water shortages in 2009 due to drought conditions and that require supplemental water supplies to meet anticipated demands. The Governor of California has requested emergency drought assistance under the Reclamation States Emergency Drought Relief Act of 1991 (Act), Public Law 102-250, as amended. The Commissioner of the Bureau of Reclamation (Reclamation) has determined that emergency drought assistance is merited. The Mid Pacific Region of Reclamation will participate in the DWB pursuant to Section 101 of the Act, to ensure that operations of the two projects can be coordinated effectively to maximize the ability of the DWB to move water from willing sellers to buyers to address critical water needs. Reclamation will review and approve, as appropriate, proposed transfers by CVP contractors in accordance with the Interim Guidelines for the Implementation of Water Transfers under the Central Valley Project Improvement Act (CVPIA).

Since the transfers Reclamation proposes to approve for the DWB represent only a portion of overall transfers supporting the DWB, the DWB is not dependent upon Reclamation's approval, and DWR would likely proceed with DWB transfers that do not require Reclamation's approval, the Proposed Action only includes those actions over which Reclamation has approval authority. The remainder of the transfers that could occur under the DWB are considered in the context of cumulative impacts.

Twenty CVP contractors have expressed interest in submitting proposals for transfer of water to DWR for the 2009 DWB. Subject to approval in accordance with the Interim Guidelines for the Implementation of Water Transfers under the CVPIA, as applicable, Reclamation proposes to approve these transfers. The proposed action would make water available to the DWB from willing sellers upstream of the Delta during the 2009 water year only. A total of up to 199,885 af of CVP water would be made available for transfer through a combination of crop idling, crop substitution, groundwater substitution, and

reservoir reoperation.

An environmental assessment (EA) was prepared to evaluate the potential environmental impacts associated with the proposed action and the no action alternative. The EA is attached for reference. The estimates analyzed in the EA reflect the potential upper limit of available water. However, actual transfers would depend on hydrology, DWB funding (interested buyers), and the amounts that sellers would ultimately have available for transfer in 2009, as well as compliance with CVPIA transfer requirements, as applicable.

Also, not all of the potential buyers analyzed in the EA may end up actually purchasing water from the DWB in 2009. It is anticipated that water made available to them from the DWB would be prioritized based on criteria DWR developed as follows: existing health and safety domestic needs, municipal supply subject to water shortage contingency plan measures, and agricultural irrigation for existing crops and livestock subject to water shortage contingency plan measures. Buyers' participation in the DWB will be subject to the terms identified in on DWR's DWB website (<http://www.water.ca.gov/drought/>), including meeting a needs assessment and having a plan with the goal of 20% reduction in water demand based on conservation efforts.

FINDINGS

In accordance with the National Environmental Policy Act of 1969, as amended, the Mid-Pacific Regional Office of the U.S. Bureau of Reclamation (Reclamation) has found that the approval of proposed transfers of CVP water in support of the 2009 DWB is not a major Federal action that would significantly affect the human environment. Therefore, an environmental impact statement is not required.

This finding of no significant impact is based on the following:

Surface Water Resources: Acquisition of water via crop idling would reduce water supply for Sacramento River users not participating in the DWB who rely on return flows from fields that, under the proposed action, would be idled. In order to minimize this impact, sellers would be required to maintain water levels in drainage systems that do not reduce supplies to downstream users.

Groundwater substitution could decrease water levels in neighboring surface water channels. Well reviews and monitoring programs will be implemented in accordance with all applicable local, regional and State regulations and basin management objectives to minimize this potential impact.

Acquisition of water via groundwater substitution or crop idling would change the rate and timing of flows in the Sacramento and Lower American Rivers. However, flow and temperature requirements, including Water Right Orders 90-5 and 91-1 temperature control planning requirements for the Sacramento River, will continue to be met under the proposed action, which would minimize the magnitude of such changes.

Transfer of stored reservoir water from Reclamation via Orland Unit Water Users Association could reduce carryover storage compared to the no action alternative. To avoid potential adverse effects, DWR and Reclamation will not approve reservoir reoperation transfers that would draw down reservoirs beyond historic operational levels. Additionally, the State Water Resources Control Board will review the proposed reservoir release to ensure that potential effects to supply or to other legal users will be minimized.

Water transfers will be conveyed through existing facilities. Water transfers involving conveyance through the Delta will be implemented within the operational parameters of the Biological Opinions on the Continued Long-term Operations of the CVP/SWP (Opinions) and any other regulatory restrictions in place at the time of implementation of the water transfers. Current Operational parameters applicable to conveyance of transfer water for the DWB include: a maximum amount of 600,000 acre feet per year is allowed for all types of water transfers; and transfer water will be conveyed during July through September only. Contract provisions of the SWP and CVP will be honored in determining access to Delta pumping capability if this capacity becomes constrained.

Under the Proposed Action, additional water supply would benefit water users who meet the previously mentioned critical needs criteria for existing uses only. Given these factors, the effects of the Proposed Action on surface water resources will not be significant.

Groundwater Resources: Crop idling and groundwater substitution transfers under the proposed action could affect groundwater resources, including changes in groundwater levels and related secondary effects. Also, groundwater pumping within the vicinity of a surface water body could change existing interactions between surface water and groundwater, potentially adversely affecting riparian habitat and downstream users. Excessive groundwater extraction from confined and unconfined aquifers could result in a lowering of groundwater levels and, in confined aquifers, a decline in water pressure, increasing the potential for subsidence. Changes in groundwater levels or in the prevailing groundwater flow regime could cause a change in groundwater quality through a number of mechanisms.

Well reviews and monitoring and mitigation plans will be implemented under the proposed action to minimize potential effects to groundwater resources. These reviews and plans will be required from sellers for review by DWR and Reclamation during the transfer approval process. DWR and Reclamation will be responsible for ensuring that well reviews and monitoring and mitigation plans are coordinated and implemented in conjunction with local ordinances, basin management objectives, and all other applicable regulations. Therefore, the Proposed Action will not have a significant adverse impact on groundwater resources.

Water Quality: Transfer of water via stored reservoir water, groundwater substitution and crop idling under the proposed action would alter surface water elevation and reservoir storage in Lake Shasta and Folsom Reservoir. However, any differences in water surface elevation and reservoir storage would not be of sufficient magnitude and frequency to affect water quality in such a way that would result in long-term adverse effects to designated beneficial uses, exceedance of existing regulatory standards or substantial degradation of water quality. Also, transfer of water under the proposed action via stored reservoir water, groundwater substitution, and crop idling under the proposed action would not substantially change Sacramento or Lower American River flows or water temperatures.

Because there would be little to no increase in sediment transport under the proposed action as compared to the no action alternative, there would be little to no decrease in the physiochemical qualities of surface water and adverse effects to designated beneficial uses, exceedance of existing regulatory standards, or substantial degradation of water quality would not be expected.

Because there would be less total leaching potential under the proposed action as compared to the no action alternative due to a decrease in applied irrigation water with crop idling, there would not be a decrease in water quality due to timing and application of water to the land as a result of crop idling. In fact, there would potentially be an improvement in the quality of surface water runoff returning to rivers and lakes.

Under the Proposed Action, there would be an increase in the amount of groundwater substituted for surface water under the proposed action, as compared to the no action alternative. However, this increase would be so small in comparison to the amount of surface water currently used to irrigate agricultural fields that the quality of the surface water, even after mixing with groundwater, would not be substantially decreased. The previously mentioned reviews, monitoring and mitigation plans that will be required of sellers will also minimize the potential for adverse effects to water quality from groundwater substitution under the proposed action.

Conveyance of transfer water under the Proposed Action will be implemented using standard CVP and SWP operating procedures designed to improve the water quality to users south and downstream of the Delta. Carriage water will be used to protect and maintain chloride concentrations in the Delta and Reclamation will only approve water transfers under the proposed action if they meet all of the required provisions of DWR's acceptance criteria governing conveyance of non-Project water through the California Aqueduct. Therefore, the proposed action would not have a significant adverse effect on water quality.

Geology and Soils: Water transfers via crop idling would result in temporary conversion of lands from rice crops to fallowed fields. However, the rice crop cycle and soil texture reduces the potential for erosion. Therefore, there would be little to no soil loss from wind erosion off the idled rice fields, and the proposed action would not significantly affect geology and soils.

Agriculture and Land Use: Water transfers via crop idling would temporarily alter agricultural land use conditions. However, temporal (one year) water transfers from the DWB are expected to contribute a relatively small amount of rice idling acreage in relation to the normal variation in planted rice acreage resulting from typical farming practices. To minimize potential adverse impacts to agricultural land use, proposed water transfers would be approved only if no more than 20 percent of rice fields would be idled cumulatively (from all sources of fallowing) in each county. If crop idling would change the classification of farmland to levels less than Prime Farmland, Farmland of Statewide Importance, or Unique Farmland under the Farmland Mapping and Monitoring Program and Prime Farmland under the Williamson Act, Reclamation would not approve transfer of water from that parcel. Therefore, the Proposed Action will not have a significant adverse impact on agriculture and land use.

Vegetation and Wildlife: Decreasing groundwater levels could reduce part of the water base for habitat. The well review and required monitoring and mitigation plans described in the groundwater section would minimize or avoid potential adverse effects to habitat from groundwater - surface water interaction.

Crop idling under the proposed action would reduce return flows, potentially affecting neighboring managed seasonal wetlands. As a part of the contractual agreements, DWR will require the willing seller of water for crop idling to maintain their drainage systems at a water level that will maintain existing wetlands and provide habitat for western pond turtle.

Crop idling of seasonally flooded agricultural land under the Proposed Action could reduce the amount of over winter forage for migratory birds. In order to limit reduction in the amount of over-winter forage for migratory birds, Reclamation will avoid or minimize actions near known wintering areas and areas that support core populations of special status species such as the black tern and greater sandhill crane. Therefore, the Proposed Action will not have a significant impact on vegetation and wildlife.

Fisheries: Potential changes in flows and water temperatures under the Proposed Action would not be of sufficient frequency or magnitude to affect Chinook salmon or steelhead adult immigration, spawning, egg incubation, and initial rearing, or juvenile rearing and emigration. Transfers involving conveyance through the Delta will be implemented within the operational parameters of the Biological Opinions on Continued Long-term Operations of the CVP/SWP. Water transfers under the Proposed Action will be implemented in accordance with meeting flow and temperature requirements on the

Sacramento River. Therefore, the Proposed Action will not have a significant impact on fisheries.

Special Status Species: In compliance with Section 7 of the Endangered Species Act, Reclamation conducted formal consultation with the Service on the Proposed Action. Reclamation has determined that the Proposed Action is not likely to adversely affect the San Joaquin kit fox and may adversely affect the giant garter snake (GGS).

The 2009 DWB will adopt the crop idling conservation measures from the Environmental Water Account (EWA) Biological Opinion (2004) with some modifications. The following conservation measures to protect the giant garter snake (GGS) will be incorporated into contracts between DWR and the water seller:

- The block size of idled rice parcels will be limited to 320 acres in size with no more than 20 percent of rice fields idled cumulatively (from all sources of fallowing) in each county, or area within 1 mile of the following refuge areas: Sacramento National Wildlife Refuge Complex (Sacramento, Delevan, Colusa, Sutter, Butte Sink and Llano Seco Unit), Gray Lodge Wildlife Area (WA), Upper Butte Basin WA, and Gilsizer Slough Conservation Easement. The 320-acre blocks will not be located on opposite sides of a canal or other waterway, and will not be immediately adjacent to another fallowed parcel (a checkerboard pattern is the preferred layout);
- Parcels participating in crop idling for the 2009 DWB will not include:
 - Lands between Refuges that serve as corridors: lands adjacent to Hunters and Logan Creeks between Sacramento National Wildlife Refuge (NWR) and Delevan NWR; the Colusa Basin drainage canal between Delevan and Colusa NWRs; Little Butte Creek between Llano Seco (NWR unit) and Upper Butte Basin WA; and Butte Creek between Upper Butte Basin and Gray Lodge WA;
 - Lands adjacent to Butte Creek, Colusa Drainage Canal, Gilsizer Slough, the land side of the Toe Drain along the Sutter Bypass, Willow Slough and Willow Slough Bypass in Yolo County, and
 - Lands in the Natomas Basin;
- The water seller will maintain a depth of at least two feet of water in the major irrigation and drainage canals (but never more than existing conditions) to provide movement corridors;
- Water will not be purchased from a field fallowed by another program in the two previous years;
- As part of a Giant Garter Snake Baseline Monitoring and Research Strategy for the development of a GGS Conservation Strategy, DWR and Reclamation

are proposing research goals to help quantify and evaluate the response of the GGS to riceland idling.

- In addition, during formal consultation with the Service, Reclamation has committed to implementing the following measures as described in the April 14, 2009 Biological Opinion:
 - Reclamation will work with DWR to document the compliance with the commitment to assure that idled parcels are no more than 320 acres in size, not located across a canal or other waterway, are not immediately adjacent to another fallowed parcel, and are distributed across the landscape in a checkerboard pattern.
 - Reclamation will reject parcels that do not conform to these criteria from participating in the DWB.
 - Reclamation will create maps showing the location of parcels enrolled to sell water to the DWB by rice fallowing or crop substitution which demonstrate compliance with the spatial criteria for fallowing rice. Reclamation will provide the maps to the Service by June 14, 2009.
 - Reclamation will gather information on the level of participation by DWB entities in the BMP's for giant garter snake.
 - Reclamation will provide this information to the Service at the end of August 2009.
 - Reclamation will submit a monthly compliance report prepared by DWR to the Sacramento Fish and Wildlife Office beginning thirty (30) calendar days from signing contracts to participate in the DWB. This report will detail: (i) total acreage affected and location where the fallowing occurred; (ii) confirmation that acreage fallowed conformed to the checkerboard pattern; (iii) confirmation that buffer zones have been complied with; (iv) confirmation that water levels are being maintained in ditches around affected fields; (v) occurrences of incidental take of any giant garter snake, if any; (vi) an explanation of failure to meet such measures, if any; and (vii) other pertinent information.

In their April 14, 2009 Biological Opinion (BO), the Service concurred that the Proposed Action is not likely to adversely affect the San Joaquin kit fox and determined that the proposed action is not likely to result in jeopardy to the giant garter snake (GGS). The proposed conservation measures that have been coordinated with the Service and will be incorporated into the Proposed Action will minimize adverse impacts to GGS populations by reducing stressors, and therefore the Proposed Action will not have a significant impact on GGS. The BO also determined that effects of the Proposed Action on delta smelt were included in the consultation for the Continued Long-term Operation

of the Central Valley Project and State Water Project, and that no additional adverse effects to delta smelt will occur beyond those evaluated in that consultation.

Air Quality: Increased groundwater pumping under the Proposed Action will increase NO_x emissions. Reclamation, DWR and willing sellers will work together to implement one, or a combination, of the following mitigation measures to reduce air quality impacts within their district: retrofit non-program pumps in amounts necessary to offset the maximum increases in project-related air pollutant emissions; or purchase offsets to compensate for producing project-related emissions. Inclusion of the proposed mitigation measures into the Proposed Action will ensure that the Proposed Action will be implemented in compliance with all applicable air quality standards, and therefore will not have a significant impact on air quality.

Power: The proposed action will not change the amount of water that is released from the reservoirs, but could alter the release pattern. Buyers will be responsible for covering any additional costs associated with changes in release patterns. The proposed action will result in an average electricity increase at the Project pumps during July, August, and September, depending on the amount of water actually transferred under the proposed action. In addition, groundwater wells in the Sacramento Valley will increase their use of electricity for water supply replacement. However, this increase in electricity use will represent less than 2 percent of the projected statewide electrical surplus during these months. Therefore, the Proposed Action will not have a significant impact on power.

Cultural Resources: Under the Proposed Action, Reclamation will not approve transfers that would drawdown reservoirs beyond historic operational levels. If reservoir operations remain within historic levels, then the proposed action will have no potential to affect historic properties pursuant to the regulations at 36 CFR Part 800.3(a)(1) resulting in no affect to cultural resources.

Indian Trust Assets: Based on the actions to be undertaken it is determined that there will be potential effects to Indian Trust Assets (ITAs). However, during the transfer approval process, if Reclamation identifies potential impacts to ITAs, tribal consultation will then precede any approval of a DWB groundwater transfer in the vicinity of the identified tribes and avoidance and mitigation measures will be collaboratively developed and implemented by sellers so that the Proposed Action will not have a significant impact on ITAs.

Socioeconomics: The maximum amount of water that will be made available by crop idling under the Proposed Action is 183,385 af. This equates to approximately 55,571 acres of crop idling. However, it is likely that the actual amount of water that is actually transferred via this method in 2009 will be less. This is a worst case scenario analysis. In order to avoid or decrease adverse social effects on community stability, Reclamation and DWR will not approve DWB water transfers via crop idling if more than 20 percent of recent harvested rice acreage in the county would be idled.

Therefore, the Proposed Action will not have a significant adverse impact on socioeconomics.

Environmental Justice: Because of the farmworker profile, crop idling could have disproportionate effects on low income and minority farmworkers. However, to minimize the potential for this effect, crop idling (from all sources) would be restricted to no more than 20% of rice acreage in any county. The proposed action also has the potential benefit of alleviating the need for some idling and or farm laborer job loss in areas receiving transfer water through the DWB. As the Proposed Action would not disproportionately expose low income or minority populations to adverse environmental or human health impacts, the Proposed Action would not have a significant environmental justice impact.

Climate Change: Since the proposed action would have no construction element and would use existing facilities within the range of normal operations, it would have no effect on climate change. As the proposed action is for a one year program, climate change is not expected to affect the proposed action.

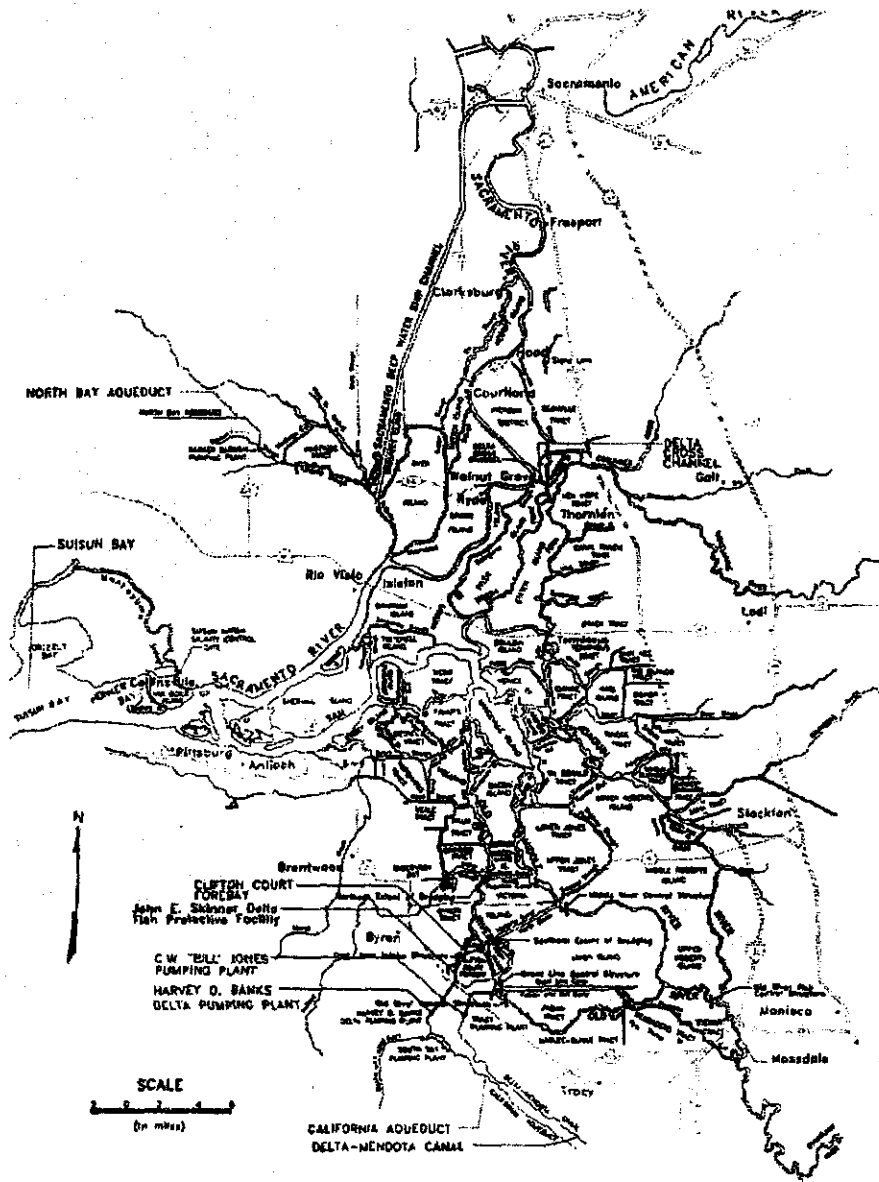
Aesthetics: The proposed action does not involve construction, introduction of new scenic features, or activities that would visually change the landscape for more than one season. The proposed action could, however, result in temporary changes or seasonal changes in the landscape. These changes would be minor, and thus the Proposed Action would not significantly impact aesthetics.

Cumulative Effects: Crop idling and groundwater substitution transfers have been implemented in previous drought response efforts, such as in the 1990's. Crop idling is also done on a regular basis as part of crop rotation and for other reasons, such as in response to hydrologic conditions, in the potentially affected areas. Groundwater use has also been implemented to supplement surface water in the past in many of the potentially affected areas, and other potential programs utilizing groundwater are described in the EA.

Fourteen non-CVP entities have indicated interest in providing water for the 2009 DWB. As previously described for potential CVP sellers, the EA analyzes estimates that reflect the potential upper limit of available water. From non-CVP sources, the DWB could potentially transfer up to 62,750 af from crop idling, 48,300 af from groundwater substitution, and 60,000 af from reservoir reoperation. Totals from all sources for the DWB would be up to 183,385 af from crop idling, 117,550 af from groundwater substitution, and 70,000 af from reservoir reoperation. The cumulative total amount potentially transferred under the DWB from all sources would be up to 370,935 af. All water transfers under the DWB will be implemented in accordance with requirements for meeting flow and temperature requirements on the Sacramento River. Also, all water transfers involving conveyance through the Delta will be implemented within the operational parameters of all applicable water quality standards and the Biological Opinions on Continued Long-term Operations of the CVP/SWP, including the limitations

of 600,000 af for all water transfers and transfer window of July through September.










Approval of the proposed water transfers under the DWB would not have highly controversial or uncertain environmental effects or involve unique or unknown environmental risks. Given the short-term nature of the proposed water transfer program, impacts to the previously discussed resource categories associated with the Proposed Action would be temporary in nature, and would not contribute to a cumulatively significant adverse impact when added to other past, present and reasonably foreseeable future actions.

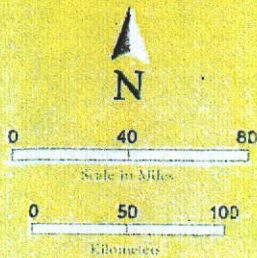


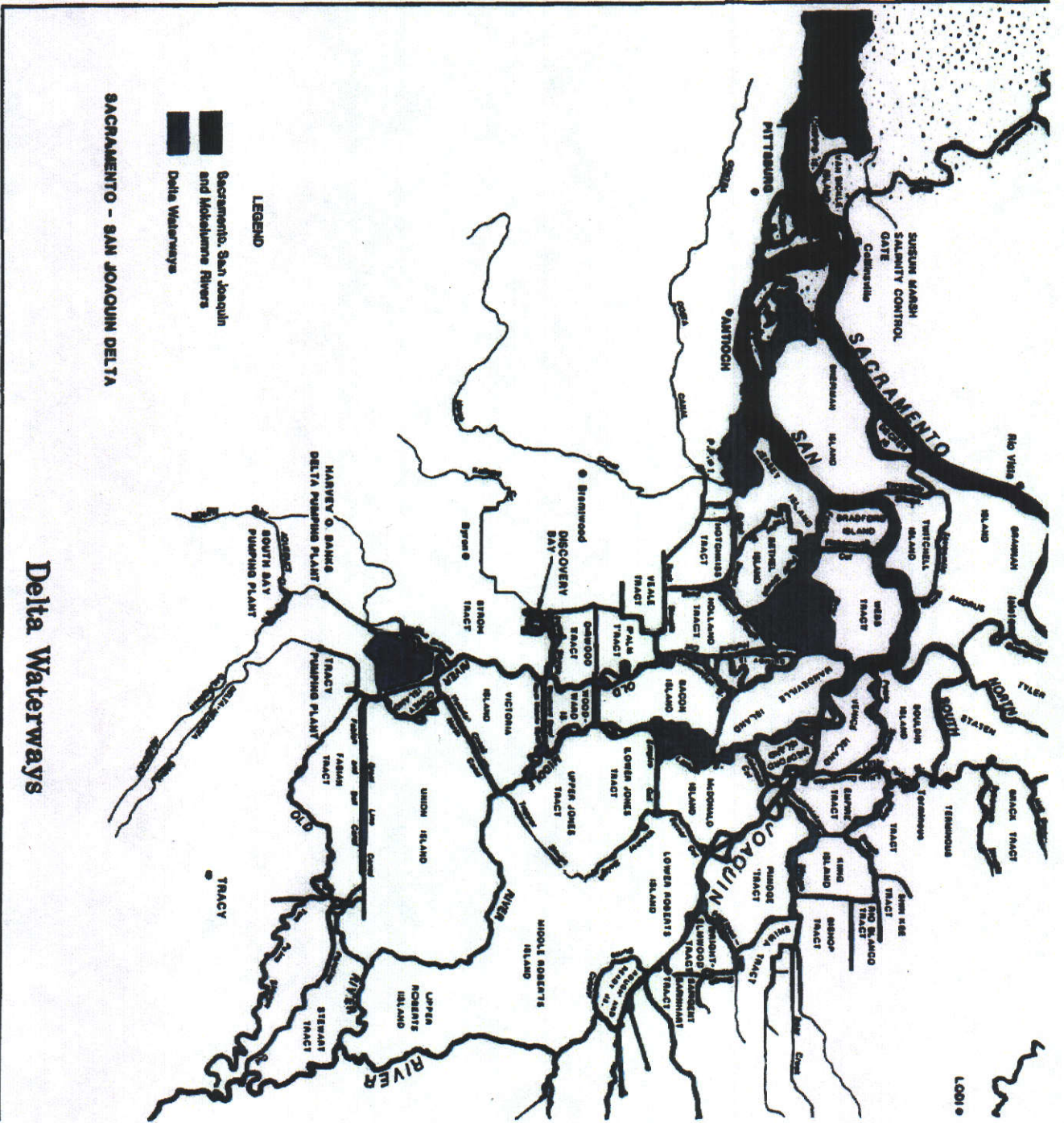
Sacramento-San Joaquin Delta

CALIFORNIA STATE WATER PROJECT

STATE WATER PROJECT (SWP) FACILITIES

	RIVERS
	LAKES
	CVP CANALS AND AQUEDUCTS
	SWP AQUEDUCT
	LOCAL EXTENSION
	STATE-FEDERAL WATER PROJECT
	CVP FACILITIES
	STATE WATER PROJECT FACILITIES
	STATE-FEDERAL WATER PROJECT FACILITIES





LEGEND

Sacramento, San Joaquin and Mokelumne Rivers
 Delta Waterways

SACRAMENTO - SAN JOAQUIN DELTA

Delta Waterways



United States Department of the Interior

BUREAU OF RECLAMATION
Mid-Pacific Regional Office
2800 Cottage Way
Sacramento, California 95825-1898

IN REPLY
REFER TO:
MP-100
ENV-1.10

DEC 15 2008

RECEIVED

DEC 15 2008

SACRAMENTO FISH
& WILDLIFE OFFICE

MEMORANDUM

To: Regional Director, Region 8
U.S. Fish and Wildlife Service

From: Donald R. Glaser
Regional Director

Subject: Biological Opinion for Delta Smelt, Dated December 15, 2008

We are in receipt of the Biological Opinion regarding the effects of the continued long-term operation of the Central Valley Project (CVP) and State Water Project (SWP) on delta smelt dated December 15, 2008. We appreciate all the hard work of you and your staff in the Section 7 consultation and preparation of this document.

At this time, the Bureau of Reclamation provisionally accepts the Reasonable and Prudent Alternative (RPA) developed by the U.S. Fish and Wildlife Service (Service) and included in the Biological Opinion conditioned upon the further development and evaluation of the two RPA components directed at habitat. RPA Component 3, the fall action, and RPA Component 4, the tidal habitat restoration action, both need additional review and refinement before Reclamation will be able to determine whether implementation of these actions by the Projects is reasonable and prudent. Further, these actions have the potential to impact listed salmonids; thus, these actions need to be coordinated with the National Marine Fisheries Service (NMFS) through Reclamation's ongoing consultation with NMFS regarding the effects of long-term Project operations.

Reclamation recognizes and appreciates that these Components have been designed with flexibility, and that the adaptive management process described in the Component 3 is intended to refine the action; however, we believe that both Components need to be developed in more detail before Reclamation can unconditionally accept the RPA. Reclamation would like to continue to work with you and your staff regarding how these Components of the RPA will be implemented so that we can better understand the required changes in CVP and SWP operations. If Reclamation, in coordination with the Department of Water Resources, ultimately determines that these two Components are not reasonable and prudent, Reclamation will reinitiate consultation.

Reclamation will begin immediate implementation of the RPA by modifying operations as required to comply with the Biological Opinion. We will notify you as soon as we determine if we can unconditionally accept the Reasonable and Prudent Alternative, or whether reinitiation of consultation is warranted.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
ORDER WR 2001 - 18 - DWR

IN THE MATTER OF PERMITS 13856 AND 13858
(APPLICATIONS 18085 AND 18087)
TEMPORARY CHANGE INVOLVING THE TRANSFER OF
UP TO 20,000 ACRE-FEET OF WATER
TO CALFED'S ENVIRONMENTAL WATER ACCOUNT
ADMINISTERED BY THE DEPARTMENT OF WATER RESOURCES
UNDER PLACER COUNTY WATER AGENCY'S WATER RIGHT

ORDER AUTHORIZING TEMPORARY CHANGE IN PLACE OF USE,
PURPOSE OF USE, AND POINT OF REDIVERSION
BY THE CHIEF OF THE DIVISION OF WATER RIGHTS:

1.0 SUBSTANCE OF PETITION

On June 15, 2001,

Placer County Water Agency
c/o Einar Maisch, Dir. Strat. Serv.
144 Ferguson Road
Auburn, CA 95670

filed with the State Water Resources Control Board (SWRCB) a Petition for Temporary Change under Water Code section 1725, *et seq.* If approved, the service areas of the State Water Project and Central Valley Project would be temporarily added to the authorized place of use under water right permits 13856 and 13858 held by the Placer County Water Agency (PCWA). The approval would allow a transfer of 20,000 acre-feet of water under PCWA's water rights to CALFED's Environmental Water Account. The temporary change would be effective until December 31, 2001. The use of the transferred water would be administered by the Department of Water Resources as part of CALFED's Environmental Water Account.

2.0 BACKGROUND

2.1 Substance of PCWA's Permits Permit 13856 was issued to PCWA on January 10, 1963. Permit 13856 authorizes PCWA to divert up to 1225 cubic feet per second and collect to storage 249,000 acre-feet from November 1 to July 1 of each year for domestic, irrigation, industrial, municipal and recreational purposes.

Permit 13858 was issued to PCWA on January 10, 1963. Permit 13858 authorizes PCWA to divert up to 800 cubic feet per second and collect to storage 66,000 acre-feet from November 1 to July 1 of each year for domestic, irrigation, industrial, municipal and recreational purposes.

3.0 AVAILABILITY OF WATER FOR TRANSFER

PCWA estimates it will have approximately 186,300 acre-feet of water in storage by June 30, 2001, in its Middle Fork Project reservoirs (French Meadows and Hell Hole reservoirs). This water is stored pursuant to a Federal Energy Regulatory Commission license (Project No. 2079) and water right permits 13855, 13856, 13857, and 13858. Of this amount, 34,800 acre-feet is committed to be delivered to PCWA's contractors or is needed for delivery to PCWA's customers during the proposed transfer period. Of the remaining 151,500 acre-feet, 51,500 acre-feet will be used for power generation and 100,000 acre-feet is reserved for carryover storage for 2002, in the absence of the transfer. Minimum storage under FERC License 2079 is 50,000 acre-feet, leaving a surplus of 50,000 acre-feet available for transfer. PCWA proposes to transfer only 20,000 acre-feet of this surplus.

The 20,000 acre-feet proposed to be released for transfer to the Environmental Water Account is currently in storage and will not be released this year except to the extent the transfer petition is approved. The Department of Water Resources and the US Bureau of Reclamation have agreed that the release of this water from storage is "new water" which would not otherwise be available during this dry year.

In light of the above, I find in accordance with Water Code section 1727(b)(1) that the proposed transfer would not injure any legal user of the water and that the proposed temporary change of water rights involves only the amount of water that would have been consumptively used or stored in the absence of the temporary change.

4.0 ENVIRONMENTAL CONSIDERATIONS

In accordance with Water Code section 1729, temporary changes involving transfer of water are exempt from the requirements of the California Environmental Quality Act (Public Resources Code section 21000, et seq.). However, the SWRCB must consider potential impacts on fish, wildlife and other instream beneficial uses in accordance with Water Code section 1727(b)(2).

The proposed temporary change in place of use, purpose of use, and point of diversion involves water that was previously stored. Since the water proposed for transfer would temporarily benefit fishery resources by providing increased flows and decreased water temperatures in a critically dry year there is no apparent reason why increased flows during the summer would harm fishery resources.

In light of the above, I find that in accordance with Water Code section 1727(b)(2) that the proposed transfer would have no unreasonable effects on fish, wildlife or other instream beneficial uses.

5.0 COMMENTS RECEIVED ON THE PROPOSED TRANSFER/EXCHANGE

Only one comment by the United States Bureau of Reclamation (USBR) was received by the July 19, 2001 deadline date. USBR approved of the transfer and agreed that the transfer would not adversely affect the water rights or operations of the CVP provided PCWA adheres to the refill agreement criteria established by Contract No. 01-WC-20-2034.

6.0 TRANSFER ALLOCATION

The amount authorized for transfer under the submitted petition is 20,000 acre-feet. PCWA has until December 31, 2001 to transfer the above water. Any water transferred prior to the date of this order and after December 31, 2001 is not authorized.

7.0 SWRCB'S DELEGATION OF AUTHORITY

On April 29, 1999, the SWRCB adopted Resolution 99-031, continuing the delegation of authority to approve petitions for temporary changes to the Chief of the Division of Water Rights, provided the necessary statutory findings can be made.

8.0 CONCLUSIONS

There is adequate information in the Division's files to make the evaluation required by Water Code section 1727; and therefore I find as follows:

1. The proposed temporary change will not injure any legal user of the water.
2. The proposed temporary change will not unreasonably affect fish, wildlife, or other instream beneficial uses.
3. The proposed transfer involves only an amount of water that would have been consumptively used or stored in the absence of the temporary change.

ORDER

NOW, THEREFORE, IT IS ORDERED that the petition for temporary change in the point of diversion, place of use and purpose of use under Placer County Water Agency's Permits 13856 and 13858 of up to 20,000 acre-feet of water is approved.

All existing terms and conditions of the subject permit remain in effect, except as temporarily amended by the following provisions:

1. The transfer shall be carried out between the issuance date of this order and December 31, 2001.

2. For the purposes of this transfer, the place of use shall be temporarily changed as follows:

The authorized place of use is temporarily expanded to include the service areas of the State Water Project and Central Valley Project as shown on maps on file with the SWRCB.

3. For the purposes of this transfer, Permits 13856 and 13858 are temporarily amended to include the following additional points of diversion:

Harvey O. Banks Pumping Plant within the NW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Projected section 20, T1S, R3E, MDB&M.

CVP Pumping Plant within the SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Projected section 31, T1S, R4E, MDB&M.

4. For the purposes of this transfer, Permits 13856 and 13858 are temporarily amended to include fish and wildlife enhancement.
5. Within 60 days of the completion of the transfer/exchange, but no later than April 1, 2002, the permittee shall provide to the Chief of the Division of Water Rights a report describing the use of the water transferred pursuant to this Order. The report shall include a summary showing the monthly amounts of water actually transferred under this Order.

The report should include the following information:

- a. General locations where the transferred water was used;
 - b. The monthly amounts of water each location received; and
 - c. The average application rate of water in the locations.
6. Permittee shall comply with all existing operation standards at the point of diversion including those contained in Water Right Decision 1641, other applicable water right permits, licenses or orders, and applicable conditions set forth in biological opinions established under the State or Federal Endangered Species Acts.
 7. The refill criteria set forth under contract No. 01-WC-20-2034 between PCWA and USBR dated July 3, 2001, shall govern the conditions which refill occurs for the transferred storage allowed in this order.
 8. Pursuant to Water Code sections 100 and 275 and the common law public trust doctrine, all rights and privileges under this transfer and temporary change Order, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the SWRCB in accordance with law and in the interest of the public welfare to protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use or unreasonable method of diversion of said water.

The continuing authority of the SWRCB also may be exercised by imposing specific requirements over and above those contained in this Order to minimize waste of water and to meet reasonable water requirements without unreasonable draft on the source.

9. This Order does not authorize any act which results in the taking of a threatened or endangered species or any act which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code sections 2050 to 2097) or the federal Endangered Species Act (16 U.S.C.A. sections 1531 to 1544). If a "take" will result from any act authorized under this temporary transfer, the Permittee shall obtain authorization for an incidental take permit prior to construction or operation.

Permittee shall be responsible for meeting all requirements of the applicable Endangered Species Act for the temporary transfer authorized under this Order.

10. I reserve jurisdiction to supervise the transfer, exchange and use of water under this Order, and to coordinate or modify terms and conditions, for the protection of vested rights, fish, wildlife, instream beneficial uses and the public interest as future conditions may warrant.

David L. Bunting
for Harry M. Schueller, Chief
Division of Water Rights

Dated: August 2, 2001



Winston H. Hickox
Secretary for
Environmental
Protection

State Water Resources Control Board

Division of Water Rights

1001 I Street, 14th Floor • Sacramento, California 95814 • (916) 341-5300
Mailing Address: P.O. Box 2000 • Sacramento, California • 95812-2000
FAX (916) 341-3400 • Web Site Address: <http://www.swrcb.ca.gov>
Division of Water Rights: <http://www.waterrights.ca.gov>



Gray Davis
Governor

In Reply Refer
to: 333:BRC:18085,18087

AUG 02 2001

Placer County Water Agency
c/o Elinar Maisch, Dir. Strat. Serv.
144 Ferguson Road
Auburn, CA 95670

Dear Ms. Maisch:

**PERMITS 13856 AND 13858 (APPLICATIONS 18085 AND 18087)
UPPER AMERICAN RIVER IN PLACER COUNTY**

Enclosed is a copy of the Order approving temporary changes in the point of redirection, purpose of use, and place of use in response to Placer County Water District's request for a temporary transfer of water under Water Code section 1725, et seq. This transfer of water is limited to a period commencing on the date of the Order through December 31, 2001.

Should you have any questions, please contact Brian Coats, the staff person assigned to this project at (916) 341-5311.

Sincerely,

David R. Beisinger
for Harry M. Schueller, Chief
Division of Water Rights

Enclosure

cc: (See attached list)

Placer County Water Agency
c/o Elinar Maisch, Dir. Strat. Serv.
Page 2

CC Mailing List:

Department of Water Resources
c/o Dan Flory
P.O. Box 942836
Sacramento, CA 94236-001

Kronick, Moskovitz, Tiedemann and Girard
c/o Janet Goldsmith
400 Capitol Mall, 27th Floor
Sacramento, CA 95814-3363

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

May 2008

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NDCU	DELTA EXPORTS						OUTFLOW INDEX			Exportflow			
	Sacto R @Freeport	BRTP	Yolo + Misc	East Side Streams	S. Joaquin River@Vernalis		Total Delta Inflow			Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron (BBY)	NBA	Total Delta Exports	3-day Avg TRA & CLT	NDCI daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)
1-May-08	8,241	210	715	696	2,997	3,099	2,987	12,659	2,000	803	537	177	85	85	1,518	1,467	8,341	8,737	8,341	9.8%	11.4%	9.9%
2-May-08	8,138	209	716	669	2,967	3,073	3,008	12,719	2,000	898	835	189	60	88	1,748	1,485	8,970	8,406	8,158	11.6%	11.2%	10.0%
3-May-08	8,127	207	880	633	3,828	3,057	3,019	12,685	2,050	895	837	206	50	86	1,774	1,468	8,862	8,148	8,658	11.7%	11.7%	10.2%
4-May-08	7,828	206	676	820	3,041	3,036	3,029	12,371	2,000	890	838	216	50	88	1,782	1,531	8,488	8,909	8,915	11.9%	11.0%	10.9%
5-May-08	8,953	204	663	623	3,957	3,021	3,021	11,540	2,100	888	842	216	85	84	1,745	1,530	7,885	8,823	8,671	12.9%	12.0%	11.1%
6-May-08	7,120	203	656	641	3,043	3,040	3,047	11,863	2,100	890	844	209	53	84	1,774	1,521	7,788	8,490	8,634	12.7%	12.4%	11.3%
7-May-08	7,766	201	654	656	3,128	3,063	3,063	12,307	2,100	888	843	288	87	80	1,781	1,521	8,487	8,919	8,919	11.9%	12.3%	11.9%
8-May-08	6,287	200	643	639	3,155	3,097	3,084	12,826	2,150	882	842	203	56	80	1,772	1,523	8,802	8,471	8,579	11.4%	12.0%	11.8%
9-May-08	7,870	200	657	635	3,231	3,134	3,106	12,893	2,200	888	843	200	63	89	1,770	1,526	8,723	8,435	8,585	11.7%	11.8%	11.7%
10-May-08	8,080	200	680	638	3,283	3,163	3,120	12,841	2,200	894	843	203	56	91	1,781	1,528	8,880	8,438	8,634	11.8%	11.8%	11.9%
11-May-08	7,675	200	668	633	3,248	3,216	3,148	12,622	2,250	884	842	203	50	82	1,771	1,526	8,601	8,454	8,822	11.7%	11.8%	11.9%
12-May-08	7,358	200	642	589	3,428	3,277	3,175	12,219	2,300	886	848	204	53	88	1,785	1,530	8,153	8,519	8,682	12.1%	11.8%	11.9%
13-May-08	8,019	200	636	607	3,472	3,305	3,188	12,934	2,300	888	838	199	66	85	1,745	1,528	8,889	8,678	8,608	11.3%	11.7%	11.8%
14-May-08	8,185	200	611	586	3,317	3,317	3,198	12,909	2,350	890	838	223	76	83	1,780	1,527	8,788	8,721	8,820	11.9%	11.9%	11.7%
15-May-08	8,458	200	819	570	3,240	3,315	3,221	13,087	2,300	898	843	241	82	107	1,788	1,533	8,839	8,712	8,641	11.1%	11.2%	11.8%
16-May-08	8,203	200	647	583	3,215	3,284	3,188	12,848	2,400	888	835	245	89	144	1,824	1,485	8,834	8,738	8,653	8.6%	10.7%	11.8%
17-May-08	7,430	200	689	632	3,158	3,273	3,183	12,889	2,450	897	840	245	0	82	1,875	1,488	7,784	8,987	8,600	12.7%	11.1%	11.3%
18-May-08	7,632	200	723	673	3,100	3,221	3,177	11,728	2,480	890	843	245	86	88	1,828	1,485	7,882	8,480	8,637	12.8%	11.8%	11.4%
19-May-08	7,668	200	778	651	3,068	2,175	3,175	12,383	2,500	885	847	245	180	83	1,771	1,538	8,884	8,384	8,613	11.7%	12.3%	11.9%
20-May-08	7,608	200	852	602	3,147	3,136	3,189	12,409	2,550	882	848	245	93	80	1,810	1,481	8,349	8,303	8,600	10.3%	11.5%	11.1%
21-May-08	7,862	200	885	567	3,046	3,080	3,153	12,370	2,600	873	847	221	97	95	1,840	1,544	7,880	8,472	8,471	13.1%	11.7%	11.9%
22-May-08	9,517	200	888	527	2,844	2,996	3,129	13,978	2,600	895	847	210	102	87	1,747	1,544	8,828	8,370	8,623	10.3%	11.2%	11.4%
23-May-08	10,560	200	880	509	2,632	2,869	3,081	14,781	2,650	1,485	878	214	142	167	2,680	1,811	8,461	8,361	8,684	15.8%	12.1%	14.8%
24-May-08	10,124	200	841	492	2,243	2,782	3,043	13,900	2,700	1,485	1,062	285	78	88	2,775	2,187	8,425	8,456	8,658	17.8%	14.8%	18.2%
25-May-08	11,267	200	827	489	1,932	2,532	2,888	14,715	2,750	1,862	1,845	185	78	87	2,304	2,375	8,681	8,771	8,802	13.8%	15.8%	17.8%
26-May-08	18,712	200	788	510	1,878	2,354	2,884	14,088	2,780	1,489	1,848	180	76	90	2,742	2,401	8,887	8,843	8,882	17.3%	18.3%	17.7%
27-May-08	9,751	200	738	488	1,900	2,178	2,911	13,978	2,800	1,838	1,844	201	0	80	2,383	2,346	7,918	8,798	8,577	15.9%	15.7%	14.7%
28-May-08	8,918	200	704	508	1,885	2,912	2,868	13,127	2,850	1,175	1,845	282	123	86	2,388	2,283	7,911	8,800	8,583	18.8%	16.5%	18.8%
29-May-08	9,880	200	786	472	1,888	1,881	2,828	12,954	2,908	1,188	1,840	201	76	89	2,442	2,177	7,612	8,512	8,620	18.4%	18.2%	18.0%
30-May-08	10,388	200	798	483	1,788	1,798	2,788	13,547	2,850	1,488	1,847	219	74	131	2,821	2,351	7,778	8,271	8,488	18.2%	17.8%	16.9%
31-May-08	10,742	200	784	489	1,882	1,748	2,750	13,887	3,000	1,788	1,843	224	50	112	2,528	2,358	8,388	8,282	8,481	15.8%	16.9%	17.8%
Total	266,825	6,240	22,385	18,097	66,869	89,458	84,788	480,326	75,450	26,783	27,856	6,585	2,178	2,893	61,848	53,534	263,228	287,163	267,814	401.8%	397.2%	397.4%
Average	8,610	201	722	584	2,796	2,886	2,883	12,914	2,434	864	888	212	70	83	1,988	1,727	8,491	8,618		13.0%	12.8%	12.6%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

June 2008

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NDCU	DELTA EXPORTS						OUTFLOW INDEX			Export/Inflow			
	Sacramento @Fresnoport	SRTP	Yolo + Misc	East Side Streams	S. Joaquin River @Vernalis		Total Delta Inflow	Clifton Court		Tracy	Coats	Byron	Total Delta Exports	2-day Avg	NDCI	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)		
	-prev day-	-prev wk-	-prev day-	-prev day-	-prev day-	7-day Average	Monthly Average	(CLT)		(TRA)	(CCC)	(BBID)	(TRA & CLT)	daily								
1-Jun-08	10,754	200	797	486	1,583	1,684	1,305	13,530	3,050	987	1,854	368	50	92	2,450	2,275	6,330	6,972	6,330	14.4%	18.1%	18.4%
2-Jun-08	11,333	200	802	494	1,505	1,637	1,304	14,334	3,100	986	1,842	376	112	96	2,377	2,104	6,857	8,108	8,504	13.4%	14.5%	14.9%
3-Jun-08	11,230	200	680	372	1,502	1,671	1,473	14,104	3,150	988	1,948	375	76	92	2,428	2,035	6,928	8,198	8,572	13.9%	13.9%	14.2%
4-Jun-08	10,487	200	788	338	1,412	1,528	1,438	13,225	3,200	778	979	373	78	99	2,153	1,940	7,872	8,191	8,397	12.7%	13.3%	13.4%
5-Jun-08	10,719	200	812	306	1,324	1,472	1,412	13,381	3,280	787	958	384	78	98	2,058	1,816	6,603	8,254	8,328	11.4%	12.8%	12.6%
6-Jun-08	10,317	200	870	296	1,316	1,411	1,383	13,188	3,300	789	938	398	17	114	2,144	1,885	7,785	8,251	8,232	12.3%	12.3%	11.9%
7-Jun-08	10,980	200	850	291	1,238	1,380	1,380	13,937	3,350	794	931	390	35	114	2,113	1,849	7,874	8,153	8,153	12.2%	12.1%	11.8%
8-Jun-08	10,348	200	818	304	1,152	1,307	1,301	12,826	3,400	800	933	401	45	110	2,300	1,711	7,117	7,879	8,023	14.0%	12.9%	12.5%
9-Jun-08	9,230	200	778	306	1,204	1,263	1,318	11,730	3,650	808	851	392	143	110	1,796	1,641	6,484	7,660	7,852	11.0%	12.9%	11.8%
10-Jun-08	8,554	200	773	291	1,195	1,234	1,389	11,913	3,800	197	423	332	88	114	1,008	1,300	6,604	7,351	7,717	5.1%	10.2%	9.3%
11-Jun-08	8,810	200	780	302	1,140	1,190	1,291	12,842	3,650	197	427	353	76	124	923	894	7,589	7,308	7,704	4.9%	6.9%	6.1%
12-Jun-08	9,890	200	775	325	1,107	1,196	1,383	12,987	3,800	193	423	242	88	134	902	820	7,895	7,285	7,720	4.2%	4.6%	4.2%
13-Jun-08	10,415	200	794	348	1,060	1,153	1,258	12,838	3,650	308	854	315	86	124	1,805	831	7,683	7,261	7,708	9.1%	8.0%	5.7%
14-Jun-08	10,400	200	801	341	1,210	1,192	1,271	12,980	3,700	308	858	412	76	124	1,716	1,042	7,844	7,842	7,687	9.1%	7.5%	7.4%
15-Jun-08	10,818	200	818	326	1,428	1,225	1,282	13,288	3,750	390	857	428	76	120	1,718	1,252	7,820	7,343	7,708	8.8%	9.0%	8.1%
16-Jun-08	11,193	200	812	318	1,438	1,286	1,284	13,871	3,800	988	857	444	100	118	2,308	1,448	7,785	7,538	7,708	12.8%	10.2%	10.6%
17-Jun-08	10,829	200	832	277	1,478	1,284	1,297	13,816	3,850	982	856	394	87	128	2,295	1,647	7,471	7,864	7,889	13.1%	11.5%	12.2%
18-Jun-08	11,973	200	834	251	1,339	1,342	1,305	13,837	3,900	987	853	406	67	118	2,304	1,847	7,433	7,844	7,881	13.1%	12.9%	13.8%
19-Jun-08	11,090	200	848	278	1,440	1,323	1,285	13,791	3,950	798	828	412	94	118	2,163	1,808	7,678	7,813	7,881	11.8%	12.7%	13.4%
20-Jun-08	11,415	200	818	231	826	1,276	1,285	13,390	4,000	795	1,018	421	93	129	2,271	1,796	7,379	7,576	7,882	12.7%	12.8%	13.3%
21-Jun-08	12,165	200	828	290	997	1,199	1,247	14,378	4,050	788	1,018	438	74	123	2,294	1,782	8,094	7,846	7,880	12.8%	12.2%	13.0%
22-Jun-08	12,588	200	846	311	877	1,122	1,231	14,784	4,100	980	1,028	438	50	158	2,548	1,875	8,146	7,882	7,791	13.2%	12.6%	13.7%
23-Jun-08	12,947	200	840	284	894	1,041	1,217	14,571	4,100	1,198	1,018	438	41	154	2,768	2,008	7,703	7,683	7,701	14.3%	13.4%	14.8%
24-Jun-08	12,982	200	839	258	914	984	1,208	14,773	4,180	1,188	1,001	440	55	125	3,185	2,289	7,438	7,679	7,880	17.7%	15.3%	16.9%
25-Jun-08	12,851	200	842	253	938	912	1,195	14,784	4,280	1,184	1,016	448	61	122	2,707	2,383	7,877	7,742	7,880	14.9%	15.7%	16.7%
26-Jun-08	12,120	200	880	286	939	923	1,187	14,685	4,280	994	1,013	444	68	125	2,514	2,282	7,881	7,744	7,888	13.9%	15.2%	16.0%
27-Jun-08	11,825	200	837	320	999	941	1,181	14,281	4,250	987	1,020	433	86	123	2,497	2,072	7,534	7,775	7,882	13.8%	13.9%	14.3%
28-Jun-08	11,639	200	812	320	1,028	956	1,174	13,887	4,250	974	1,021	423	50	120	2,488	2,065	7,258	7,864	7,876	13.9%	13.7%	13.8%
29-Jun-08	12,118	200	792	321	980	971	1,168	14,611	4,300	1,018	1,020	468	50	123	2,518	2,014	7,893	7,585	7,873	13.8%	13.8%	13.8%
30-Jun-08	12,589	200	785	286	1,063	988	1,184	14,843	4,300	1,188	1,535	411	117	114	3,132	2,253	7,911	7,843	7,965	17.4%	15.1%	15.3%
Total	332,789	6,000	24,482	9,373	35,462	36,825	34,779	408,026	112,400	24,539	27,825	11,838	2,153	3,541	65,690	52,311	229,936	231,490	236,037	364.6%	383.4%	372.4%
Average	11,090	200	816	312	1,182	1,231	1,283	13,601	3,747	818	831	395	72	118	2,180	1,744	7,885	7,714	7,882	12.2%	12.2%	12.4%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

July 2007

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NDOU	DELTA EXPORTS							OUTFLOW INDEX			Export/Inflow		
	Sacto R @Fresno	SRTIP	Yolo + Misc	East Side	S. Joaquin River@Vernalis		Total Delta	Clinton Court		Trey	Contra Costa	Byron	NBA	Total Delta	3-day Avg	NDOI Daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)	
	prev day	prev wk	prev day	prev day	prev day	7-day Average	Monthly Average	Inflow		(CLT)	(TRA)	(CCC)	(BBIC)	Exports	TRA & CLT							
1-Jul-07	18,552	200	658	313	1,234	1,290	1,280	20,998	4,300	6,804	3,926	418	78	136	11,072	7,089	5,304	7,340	5,504	50.2%	36.3%	41.1%
2-Jul-07	19,165	209	658	332	1,268	1,287	1,293	21,452	4,300	6,382	4,452	426	110	133	11,291	8,052	6,071	7,106	5,827	48.0%	42.0%	50.9%
3-Jul-07	19,933	208	657	325	1,297	1,243	1,191	22,420	4,350	5,330	4,442	420	82	135	10,261	10,402	7,800	7,291	6,488	43.3%	47.0%	57.3%
4-Jul-07	20,001	208	652	295	987	1,190	1,133	22,143	4,350	5,900	4,385	431	86	135	10,458	10,197	7,335	7,200	6,700	44.7%	45.0%	54.0%
5-Jul-07	19,563	207	652	312	960	1,143	1,103	21,604	4,400	5,611	4,440	430	60	134	10,555	9,937	6,740	7,205	6,708	46.1%	44.6%	52.4%
6-Jul-07	18,367	207	652	324	983	1,164	1,084	20,533	4,400	5,030	4,358	388	75	132	10,631	10,072	6,302	6,008	6,607	48.3%	46.0%	52.4%
7-Jul-07	17,706	206	649	325	980	1,042	1,002	19,875	4,400	5,625	4,346	403	71	127	9,631	9,670	5,645	6,304	6,304	46.0%	47.3%	58.0%
8-Jul-07	17,919	206	635	344	929	1,013	1,048	19,833	4,400	5,780	4,344	425	60	121	10,616	9,894	4,823	6,380	6,201	50.0%	48.9%	50.2%
9-Jul-07	17,916	206	621	332	948	977	1,047	19,723	4,400	5,800	4,354	442	10	117	10,893	9,947	4,430	6,055	6,004	52.4%	48.9%	50.0%
10-Jul-07	17,300	206	613	313	1,045	969	1,038	19,477	4,400	5,900	4,406	436	84	128	10,877	10,244	4,200	5,830	5,834	53.0%	51.0%	51.3%
11-Jul-07	17,806	206	604	301	929	874	1,032	19,828	4,400	6,001	4,385	434	59	129	11,540	10,595	3,979	6,000	5,800	55.1%	53.0%	52.2%
12-Jul-07	18,139	206	608	304	992	978	1,030	20,248	4,400	6,456	4,388	416	70	134	11,303	10,761	4,546	4,746	5,964	53.2%	53.7%	52.4%
13-Jul-07	18,317	206	595	306	1,013	981	1,029	21,437	4,400	5,946	4,391	412	0	126	10,874	10,741	6,163	4,841	5,610	48.2%	52.1%	51.7%
14-Jul-07	18,739	206	578	302	1,011	999	1,030	21,836	4,400	6,027	4,385	407	50	130	11,770	10,823	5,857	4,843	5,613	51.9%	50.0%	51.7%
15-Jul-07	19,418	206	555	319	1,053	1,016	1,053	21,591	4,400	7,158	4,354	410	50	132	12,012	11,047	5,130	4,873	5,582	53.2%	51.0%	52.7%
16-Jul-07	19,783	206	541	342	1,060	1,034	1,007	21,921	4,400	7,947	4,383	422	107	132	11,857	11,435	6,064	5,060	5,567	51.0%	52.1%	54.2%
17-Jul-07	19,535	206	539	330	1,162	1,034	1,035	21,712	4,400	7,163	4,378	431	79	126	12,010	11,917	6,263	6,206	5,560	52.0%	52.9%	54.7%
18-Jul-07	19,905	206	529	288	997	1,027	1,030	21,823	4,400	7,167	4,382	427	60	121	12,017	11,820	4,306	6,434	4,306	52.3%	52.2%	54.7%
19-Jul-07	19,708	206	556	275	946	1,024	1,028	21,801	4,400	6,980	4,367	432	54	112	11,816	11,472	5,475	5,937	6,001	52.0%	52.4%	54.7%
20-Jul-07	19,783	206	521	279	988	1,017	1,034	21,757	4,350	7,178	4,383	414	53	126	12,028	11,472	5,378	5,445	5,552	52.0%	52.4%	54.3%
21-Jul-07	18,960	206	510	282	963	1,001	1,020	21,940	4,350	8,274	4,301	238	50	131	10,804	11,178	6,006	5,500	5,602	48.4%	51.0%	52.8%
22-Jul-07	20,370	206	525	314	941	895	1,021	22,356	4,350	7,160	4,379	207	50	131	11,827	11,248	6,179	5,720	5,628	51.4%	50.0%	52.7%
23-Jul-07	20,302	206	528	327	1,030	966	1,022	22,380	4,350	7,175	4,385	241	114	128	11,814	11,255	6,220	5,870	5,655	51.1%	50.3%	52.2%
24-Jul-07	19,958	206	543	311	1,036	1,006	1,027	22,000	4,350	7,170	4,410	230	58	128	11,806	11,562	5,813	6,004	6,041	52.3%	51.0%	53.1%
25-Jul-07	19,300	206	536	286	1,140	1,034	1,001	21,464	4,300	6,584	4,406	230	58	125	11,348	11,387	5,820	6,020	6,067	51.2%	51.5%	52.1%
26-Jul-07	18,987	206	536	291	1,140	1,050	1,034	21,060	4,300	7,084	4,443	223	60	126	11,818	11,386	4,844	6,053	5,640	54.4%	52.0%	52.0%
27-Jul-07	18,832	206	536	287	1,100	1,061	1,034	20,781	4,300	7,177	4,467	214	64	132	11,920	11,404	4,555	5,735	5,800	55.7%	53.0%	52.2%
28-Jul-07	14,490	208	532	288	1,040	1,072	1,033	20,556	4,250	7,125	4,427	218	60	126	11,830	11,574	4,470	5,430	6,550	55.0%	55.4%	53.2%
29-Jul-07	14,430	206	528	285	1,010	1,078	1,025	20,471	4,250	7,144	4,464	217	78	126	11,878	11,601	4,345	6,160	6,377	56.3%	56.0%	53.9%
30-Jul-07	15,449	206	526	276	1,071	1,085	1,026	20,826	4,250	7,166	4,434	230	52	126	11,933	11,593	4,345	4,800	5,478	56.4%	56.2%	53.7%
31-Jul-07	16,048	206	543	264	1,082	1,066	1,026	20,148	4,200	7,173	4,420	231	66	118	11,878	11,807	4,870	4,680	6,432	57.2%	56.0%	54.0%
Total	590,044	4,398	17,930	8,467	32,312	32,785	32,010	656,171	134,800	204,222	135,062	10,944	2,124	3,690	382,855	333,058	168,410	170,219	170,526	190.0%	157.3%	1825.7%
Average	19,034	206	578	306	1,042	1,050	1,062	21,167	4,352	6,586	4,383	353	60	127	11,382	10,770	5,433	6,781	6,781	51.6%	50.7%	52.4%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

August 2007

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NOCU	DELTA EXPORTS						OUTFLOW INDEX			Export/Inflow			
	Sacto R @Freeport	SRTIP	Yolo + Misc	East Side Streams	S. Joaquin River@Yernalis	7-day Average	Monthly Average	Total Delta Inflow		Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byres Bethany (BBB)	NBA	Total Delta Exports	3-day Avg TRA & CLT	NOCU daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)
1-Aug-07	17,387	206	528	300	1,913	1,033	805	18,444	4,960	7,544	4,413	230	42	119	11,965	11,980	3,379	4,301	3,379	58.2%	57.6%	54.4%
2-Aug-07	17,218	206	525	312	895	1,018	942	18,186	4,300	7,173	4,458	242	87	127	11,912	11,584	3,864	4,031	3,318	58.2%	58.9%	54.9%
3-Aug-07	16,938	207	534	327	978	1,006	932	18,806	4,750	7,164	4,438	238	53	127	11,934	11,904	2,821	3,798	3,118	58.9%	60.1%	55.9%
4-Aug-07	17,347	207	553	335	973	1,011	978	18,415	4,750	5,959	4,432	256	50	128	10,744	11,222	4,521	3,805	3,489	53.4%	58.1%	54.1%
5-Aug-07	17,138	207	567	345	1,058	1,018	1,068	18,323	4,960	7,167	4,458	215	50	125	11,915	11,220	3,308	3,457	3,437	58.9%	58.0%	54.7%
6-Aug-07	16,574	207	559	349	1,116	1,018	1,019	18,845	4,900	7,171	4,385	198	0	123	11,877	11,197	2,868	3,488	3,342	61.3%	58.2%	53.4%
7-Aug-07	17,808	208	550	372	1,087	1,026	1,028	18,725	4,889	7,178	4,372	204	50	123	11,827	11,577	3,848	3,414	3,414	58.3%	58.8%	57.7%
8-Aug-07	17,579	208	533	317	1,089	1,051	1,033	18,706	4,889	7,172	4,434	212	89	126	11,875	11,570	3,781	3,472	3,480	58.5%	58.4%	58.0%
9-Aug-07	17,333	208	515	292	1,077	1,070	1,041	18,425	4,988	7,171	4,481	203	59	124	11,900	11,586	3,825	3,530	3,487	58.6%	58.1%	58.4%
10-Aug-07	17,901	208	571	318	1,110	1,083	1,044	20,188	4,988	7,189	4,444	191	74	130	11,888	11,617	4,248	3,729	3,645	57.4%	58.3%	58.8%
11-Aug-07	18,316	208	621	324	1,068	1,072	1,038	20,537	3,889	6,979	4,438	175	76	128	11,229	11,418	5,388	3,848	3,780	53.2%	56.7%	57.8%
12-Aug-07	18,882	208	621	344	875	1,055	1,035	20,248	3,889	7,155	4,423	152	59	125	11,805	11,394	4,485	4,016	3,775	57.0%	55.8%	57.6%
13-Aug-07	18,417	208	627	355	1,001	1,051	1,038	20,808	3,889	7,164	4,373	130	85	125	11,726	11,373	4,982	4,318	3,888	55.7%	55.3%	57.4%
14-Aug-07	18,721	208	640	330	1,056	1,041	1,034	20,955	3,889	7,177	4,422	155	42	122	11,833	11,571	5,272	4,622	3,868	55.1%	55.9%	58.3%
15-Aug-07	18,488	208	642	316	1,082	1,019	1,028	20,857	3,889	7,167	4,441	156	32	122	11,872	11,584	4,835	4,687	4,632	56.1%	55.8%	58.2%
16-Aug-07	18,438	208	654	318	919	986	1,017	20,537	3,889	7,174	4,453	137	57	128	11,833	11,818	4,804	4,884	4,887	56.3%	55.9%	58.1%
17-Aug-07	18,274	208	685	314	876	983	1,011	20,338	3,889	7,175	4,443	132	81	127	11,785	11,824	4,744	4,854	4,828	58.7%	56.4%	57.7%
18-Aug-07	17,756	208	681	322	909	983	1,009	18,858	3,789	7,167	4,444	126	63	122	11,888	11,818	4,300	4,888	4,825	58.2%	57.1%	57.8%
19-Aug-07	16,743	208	646	320	875	983	1,004	18,882	3,700	7,176	4,428	123	50	123	11,782	11,608	3,400	4,448	4,887	61.1%	58.8%	57.8%
20-Aug-07	16,887	208	629	326	1,004	985	1,011	18,854	3,700	7,171	4,383	124	0	122	11,729	11,584	3,825	4,454	4,873	60.3%	58.8%	57.5%
21-Aug-07	16,818	208	640	302	1,069	973	1,019	18,838	3,650	7,168	4,381	114	12	123	11,784	11,547	3,804	4,216	4,881	60.7%	60.7%	57.6%
22-Aug-07	16,281	208	642	286	1,054	980	1,012	18,471	3,889	7,173	4,448	188	42	128	11,812	11,534	3,859	3,848	4,888	62.7%	61.2%	57.9%
23-Aug-07	16,202	208	655	292	972	989	1,011	18,329	3,889	7,189	4,428	94	53	128	11,767	11,582	2,862	3,671	3,889	63.0%	62.1%	58.3%
24-Aug-07	16,226	208	661	285	1,008	1,017	1,013	18,348	3,689	7,171	4,488	87	84	128	11,821	11,825	3,917	3,434	3,821	61.6%	62.8%	58.7%
25-Aug-07	16,341	208	670	296	1,040	1,025	1,013	18,555	3,589	5,888	4,382	87	80	125	10,548	11,215	4,888	3,453	3,844	55.7%	60.8%	57.8%
26-Aug-07	16,354	208	686	321	1,029	1,035	1,016	18,578	3,489	5,888	4,408	84	88	127	10,587	10,818	4,881	3,818	3,888	55.7%	58.2%	55.4%
27-Aug-07	16,297	208	638	318	1,073	1,035	1,077	18,835	3,489	5,502	4,381	84	0	123	10,889	10,226	4,885	3,815	4,008	53.3%	54.9%	52.8%
28-Aug-07	16,117	208	686	305	1,066	1,017	1,016	18,382	3,489	5,884	4,372	77	66	120	10,017	10,832	4,885	3,888	4,837	53.7%	54.2%	52.4%
29-Aug-07	15,997	206	683	288	934	1,009	1,011	18,841	3,389	5,488	4,417	76	27	126	10,882	9,886	4,889	4,218	4,857	54.8%	53.9%	52.1%
30-Aug-07	15,938	208	581	273	915	986	1,008	17,905	3,389	5,888	4,443	72	55	125	10,072	9,881	4,833	4,444	4,873	55.2%	54.9%	52.8%
31-Aug-07	16,800	208	587	291	918	977	1,005	18,004	3,289	5,886	4,384	74	82	133	10,035	9,889	4,719	4,887	4,884	54.8%	54.8%	53.1%
Total	531,849	6,440	18,781	9,884	31,250	31,474	31,385	587,884	117,250	208,731	137,888	4,555	1,484	3,671	353,723	348,488	128,911	125,821	117,838	1788.8%	1782.5%	1747.5%
Average	17,150	208	606	318	1,006	1,015	1,010	18,280	3,788	6,788	4,421	147	48	125	11,410	11,242	4,884	4,858		57.8%	57.8%	56.4%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

September 2007

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NDCU	DELTA EXPORTS						OUTFLOW INDEX			Export/Inflow			
	Sacto R	Yolo +	East Side	S. Joaquin River@Vernalis		Total	Cotton	Tracy		Contra	Byron	Total	3-day	NOOI	7-day	Monthly	Daily	3 Day	14 Day			
	@Fireport	BRTF	Misc	Streams	7-day	Monthly														Delta	Exports	TRA & CLT
prev day	prev wk	prev day	prev day	prev day	Average	Average	Inflow	(CLT)	(TRA)	(CCC)	(BBID)	(NSA)	TRA & CLT	daily	Avg	Avg	(%)	(%)	(%)			
1-Sep-07	16,200	206	669	310	905	962	824	18,212	3,200	5,989	4,373	80	30	130	16,922	10,061	4,489	4,885	4,480	56.6%	53.5%	54.2%
2-Sep-07	16,500	206	619	323	924	948	842	18,565	3,200	5,989	4,379	83	30	128	16,828	10,207	4,838	4,724	4,663	55.6%	55.8%	55.1%
3-Sep-07	16,800	207	610	336	971	953	899	18,924	3,150	5,983	4,367	83	30	128	16,914	10,361	5,280	4,782	4,862	54.4%	55.5%	56.0%
4-Sep-07	16,300	207	660	326	1,183	963	1,002	18,526	3,100	5,989	4,365	70	36	130	16,918	10,359	4,808	4,785	4,874	55.7%	55.2%	56.1%
5-Sep-07	16,000	207	566	318	1,008	888	891	18,888	3,050	5,991	4,320	84	34	130	16,901	10,350	4,548	4,738	4,808	56.9%	55.7%	56.2%
6-Sep-07	16,500	207	548	314	958	978	892	18,526	3,000	5,985	4,405	80	35	127	16,522	10,382	4,997	4,823	4,840	53.8%	56.1%	56.2%
7-Sep-07	16,882	206	515	291	963	957	897	18,887	2,950	5,989	4,336	82	30	127	16,513	10,389	5,405	4,821	4,821	54.7%	55.8%	56.1%
8-Sep-07	16,856	206	533	264	1,027	1,012	1,001	18,886	2,900	5,989	4,361	83	30	129	16,483	10,372	5,483	5,064	4,882	54.8%	55.0%	56.0%
9-Sep-07	17,220	206	521	236	1,035	1,022	1,005	18,218	2,800	5,988	4,486	75	38	125	16,957	10,374	5,781	5,188	5,077	53.9%	54.4%	55.9%
10-Sep-07	17,040	206	506	240	1,036	1,015	1,010	18,030	2,850	5,983	4,319	71	30	126	16,488	10,383	5,722	5,282	5,142	53.9%	54.1%	55.7%
11-Sep-07	17,106	206	505	241	1,033	1,012	1,008	18,111	2,800	5,991	4,487	68	35	124	16,933	10,388	5,758	5,383	5,188	54.2%	54.6%	55.6%
12-Sep-07	16,801	206	500	235	991	1,015	1,005	18,733	2,750	4,982	4,352	63	15	116	9,308	10,018	6,475	5,639	5,304	48.8%	52.7%	53.8%
13-Sep-07	16,649	206	474	232	970	1,008	1,001	17,931	2,700	4,982	4,358	63	53	116	9,477	9,898	5,764	5,787	5,338	51.8%	52.0%	51.8%
14-Sep-07	16,746	206	453	238	953	994	965	18,398	2,650	4,988	4,328	63	27	113	9,476	9,346	5,679	5,919	5,430	50.0%	50.5%	49.0%
15-Sep-07	16,406	206	428	235	920	968	964	18,396	2,600	4,983	4,383	59	25	115	9,584	9,344	6,282	6,033	5,478	56.7%	50.9%	49.8%
16-Sep-07	15,870	206	424	238	880	963	895	17,819	2,600	4,985	4,328	80	30	114	9,456	9,332	5,783	6,033	5,488	52.1%	50.9%	50.0%
17-Sep-07	16,216	206	389	234	1,011	990	897	18,186	2,550	4,986	4,905	55	82	117	8,601	9,053	7,016	6,218	5,585	46.4%	48.7%	48.8%
18-Sep-07	15,977	206	365	268	1,032	977	896	17,988	2,500	4,984	4,187	58	21	118	8,782	8,815	6,616	6,327	6,077	48.4%	48.9%	47.4%
19-Sep-07	15,363	206	433	181	971	972	893	17,184	2,450	4,980	4,342	58	45	120	8,983	8,855	5,741	6,222	6,642	51.2%	48.5%	46.7%
20-Sep-07	14,877	206	467	174	838	968	890	16,683	2,450	4,986	4,380	57	25	108	8,933	8,756	5,388	6,154	5,824	52.8%	56.7%	47.8%
21-Sep-07	15,828	206	447	185	926	968	896	17,882	2,400	4,985	4,396	62	3	104	9,014	8,826	6,178	6,112	5,691	56.3%	51.4%	48.3%
22-Sep-07	15,321	206	417	181	820	944	885	17,045	2,350	5,000	4,271	78	15	105	9,927	9,136	4,788	5,895	5,910	57.2%	53.3%	50.4%
23-Sep-07	14,987	206	384	193	890	976	890	16,626	1,300	5,034	4,287	79	25	100	9,478	9,311	5,841	5,920	6,025	56.9%	54.4%	51.9%
24-Sep-07	14,547	206	318	190	1,084	982	898	16,355	1,150	4,984	4,284	96	0	99	8,983	9,288	6,213	5,805	5,648	53.7%	55.6%	52.4%
25-Sep-07	14,385	206	281	186	1,139	1,012	1,001	16,207	1,100	5,088	4,325	95	15	101	10,005	8,311	5,083	5,602	5,627	60.3%	56.7%	53.1%
26-Sep-07	14,306	206	250	190	1,115	1,026	1,002	16,067	1,100	5,083	4,340	123	13	93	10,606	9,482	4,822	5,485	5,688	61.1%	58.4%	54.7%
27-Sep-07	13,849	206	278	189	1,034	1,037	1,002	15,556	1,050	5,975	4,358	147	12	107	10,877	9,887	3,920	5,261	5,838	66.4%	62.8%	58.2%
28-Sep-07	13,286	206	330	187	1,063	1,055	1,004	15,022	2,300	5,083	4,316	155	22	114	10,958	9,382	2,784	4,803	5,430	65.2%	64.2%	59.1%
29-Sep-07	11,997	206	438	185	1,051	1,081	1,008	13,877	2,150	3,988	4,308	154	20	147	8,548	8,471	3,778	4,876	5,381	58.4%	63.8%	57.1%
30-Sep-07	12,787	206	446	184	1,132	1,091	1,013	14,675	2,180	5,088	4,303	149	0	99	10,040	9,280	2,683	4,082	5,265	66.7%	63.9%	56.8%
Total	489,242	6,188	13,027	7,051	30,138	28,918	28,829	328,248	73,345	160,231	129,940	2,442	932	3,508	295,053	290,854	157,848	162,244	158,787	1666.0%	1848.3%	1808.6%
Average	15,641	206	454	235	1,005	897	894	17,542	2,417	5,341	4,327	81	31	117	8,835	9,868	5,265	5,408		55.2%	54.9%	53.4%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.a.)

October 2007

Estimated numbers are in bold italic print

Date	DELTA INFLOW								Total Delta Inflow	NDCU	DELTA EXPORTS						OUTFLOW INDEX			Exportflow			
	Sacramento @Freeport	GRTP	Yolo + Misc	East Side Streams	S. Joaquin River@Verzalis		7-day Average	Monthly Average			Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron Bethany (BBB)	NBA	Total Delta Exports	3-day Avg TRA & CLT	NDCU daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)
	prev day	prev wk	prev day	prev day	prev day	prev day																	
1-Oct-07	12,207	205	383	188	1,188	1,187	1,388	14,182	2,188	4,487	4,322	148	0	76	8,842	4,938	2,888	3,878	2,988	82.3%	82.9%	85.8%	
2-Oct-07	12,176	205	345	896	1,248	1,116	1,212	14,784	2,100	4,484	4,331	147	16	84	9,088	9,145	3,876	3,415	3,318	88.8%	82.9%	87.7%	
3-Oct-07	12,811	264	300	483	1,175	1,130	1,197	14,173	2,050	3,985	4,323	104	16	86	8,472	8,654	3,851	3,233	3,428	88.8%	80.1%	85.3%	
4-Oct-07	11,794	203	278	328	1,138	1,146	1,168	13,738	2,050	3,488	4,274	147	7	79	7,891	8,305	3,888	3,282	3,488	88.8%	88.3%	83.8%	
5-Oct-07	11,783	282	289	310	1,113	1,148	1,149	13,887	2,000	3,488	4,283	131	24	84	7,961	7,950	3,728	3,338	3,542	88.8%	87.2%	82.4%	
6-Oct-07	12,385	201	283	282	1,873	1,148	1,148	14,218	2,000	3,881	4,357	112	0	85	7,358	7,827	4,888	3,551	3,728	81.7%	84.9%	81.8%	
7-Oct-07	11,817	288	305	288	1,131	1,185	1,195	13,842	1,888	3,888	4,345	111	15	75	7,813	7,484	4,878	3,821	3,821	82.8%	83.7%	80.7%	
8-Oct-07	11,575	188	313	288	1,208	1,188	1,182	13,584	1,888	3,885	4,278	112	88	88	7,385	7,318	4,888	4,888	3,878	83.2%	82.8%	80.2%	
9-Oct-07	11,484	188	214	288	1,208	1,145	1,168	13,438	1,888	3,882	4,278	111	0	88	7,438	7,282	4,887	4,883	3,888	84.1%	83.4%	80.7%	
10-Oct-07	10,750	188	306	250	1,143	1,138	1,154	12,848	1,888	3,888	4,287	111	12	88	7,484	7,288	3,844	4,888	3,835	87.2%	84.8%	81.4%	
11-Oct-07	11,540	188	284	278	1,087	1,138	1,158	13,382	382	3,488	4,288	113	8	88	7,821	7,424	4,888	4,218	3,888	87.8%	88.4%	83.2%	
12-Oct-07	11,628	188	225	353	1,112	1,148	1,148	13,418	382	3,488	4,238	111	8	87	7,888	7,573	4,887	4,438	4,884	87.8%	87.8%	84.7%	
13-Oct-07	10,750	188	184	284	1,145	1,182	1,185	12,584	-1,781	3,488	4,181	112	5	83	7,628	7,714	4,888	4,887	4,238	81.1%	88.7%	86.1%	
14-Oct-07	10,832	188	147	285	1,358	1,211	1,183	12,588	-1,881	3,487	4,282	111	0	83	7,873	7,685	4,887	3,884	4,413	81.1%	88.8%	86.8%	
15-Oct-07	10,815	188	112	285	1,412	1,238	1,197	12,483	-1,881	3,488	4,288	103	4	88	7,967	7,718	4,887	4,888	4,548	82.3%	81.9%	87.3%	
16-Oct-07	9,888	188	182	282	1,488	1,288	1,287	11,833	-884	3,488	4,222	96	7	85	7,371	7,588	4,888	4,885	4,548	88.8%	81.5%	87.1%	
17-Oct-07	9,858	188	88	248	1,357	1,388	1,218	11,788	-432	3,487	4,225	83	5	83	7,352	7,488	4,888	4,887	4,885	81.3%	81.5%	86.8%	
18-Oct-07	10,388	188	28	288	1,344	1,378	1,238	12,183	1,572	3,488	4,212	82	8	84	7,848	7,377	3,771	4,884	4,885	83.2%	81.8%	88.8%	
19-Oct-07	10,888	188	28	283	1,588	1,483	1,284	12,888	1,572	3,482	4,251	83	8	88	7,988	7,552	3,187	4,872	4,888	81.1%	81.8%	88.8%	
20-Oct-07	10,175	188	0	283	1,728	1,518	1,288	12,383	1,872	3,487	4,247	83	0	72	7,388	7,588	3,383	4,838	4,348	84.5%	80.8%	88.2%	
21-Oct-07	10,388	188	0	275	1,783	1,558	1,385	12,483	1,572	3,481	4,238	81	0	84	7,384	7,388	3,547	4,184	4,378	87.8%	88.2%	88.4%	
22-Oct-07	10,688	188	0	277	1,888	1,581	1,332	12,232	1,888	3,488	4,288	184	0	73	7,378	7,217	3,888	3,837	4,283	88.8%	88.4%	87.4%	
23-Oct-07	10,372	188	0	271	1,888	1,838	1,338	12,832	1,788	3,488	4,228	112	24	82	8,888	7,845	3,884	3,827	4,237	83.4%	88.7%	88.8%	
24-Oct-07	10,481	188	0	288	1,883	1,885	1,384	12,542	1,788	3,488	4,278	128	10	81	8,884	8,884	3,888	3,881	4,288	84.8%	88.4%	85.1%	
25-Oct-07	8,848	188	0	281	1,718	1,728	1,373	12,188	1,788	3,485	4,281	135	14	88	8,985	8,743	3,481	3,471	4,187	85.8%	84.3%	84.2%	
26-Oct-07	9,587	188	0	288	1,834	1,732	1,385	11,888	1,788	3,485	4,283	121	8	103	8,985	8,784	3,184	3,488	4,148	86.8%	85.4%	84.8%	
27-Oct-07	9,414	188	0	285	1,851	1,821	1,425	11,848	1,788	3,482	4,282	181	0	103	8,388	8,588	3,781	3,517	4,171	82.3%	84.8%	83.8%	
28-Oct-07	9,385	188	0	284	2,188	1,988	1,438	12,834	1,788	3,484	4,282	114	0	85	8,485	8,378	3,888	3,563	4,123	81.4%	83.4%	82.2%	
29-Oct-07	8,853	188	0	288	2,382	1,887	1,485	12,744	1,788	3,487	4,283	81	17	108	8,828	8,388	4,124	3,718	4,123	82.8%	82.2%	82.1%	
30-Oct-07	8,851	188	0	283	2,384	2,883	1,572	11,737	1,788	3,488	4,287	188	12	108	8,854	8,847	3,888	3,888	4,088	87.4%	83.8%	83.8%	
31-Oct-07	9,788	188	4	273	2,288	2,172	1,838	12,584	1,788	3,481	4,288	115	7	89	7,388	8,888	3,484	3,688	4,088	87.2%	85.8%	84.1%	
Total	332,184	6,187	4,284	9,848	48,588	44,148	38,388	398,215	38,482	96,288	131,881	3,438	282	2,388	233,788	238,428	128,111	128,881	124,321	177.4%	178.8%	188.8%	
Average	10,715	200	138	282	1,581	1,424	1,288	12,848	1,238	3,188	4,285	111	9	76	7,538	7,433	4,088	4,038		87.3%	87.5%	84.8%	

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

MAY 2008

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: August 18, 2008

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	POWER	RELEASE - C.F.S.			EVAPORATION		PRECIP INCHES	
		1000 ACRE-Feet IN LAKE	CHANGE			RIVER SPILL	OUTLET	PUMPING PLANT	C.F.S.	INCHES		
		536.8										
1	421.43	539.8	+3.0	2,917	1,115	0	0	236	59	.21	.00	
2	421.78	542.7	+2.9	2,903	1,130	0	0	243	64	.23	.00	
3	422.15	545.8	+3.1	2,916	1,079	0	0	240	42	.15	.00	
4	422.60	549.6	+3.8	3,194	991	0	0	245	56	.20	.00	
5	422.86	551.7	+2.2	2,442	1,034	0	0	253	56	.20	.00	
6	423.39	556.2	+4.5	3,660	1,111	0	0	235	60	.21	.00	
7	423.97	561.1	+4.9	4,169	1,399	0	0	237	60	.21	.00	
8	424.82	566.7	+5.5	3,831	733	0	0	240	63	.22	.00	
9	425.01	570.0	+3.3	3,095	1,106	0	0	251	60	.21	.00	
10	425.45	573.8	+3.8	3,207	976	0	0	259	63	.22	.00	
11	425.88	577.5	+3.7	3,380	1,191	0	0	259	64	.22	.00	
12	426.34	581.5	+4.0	3,394	1,068	0	0	253	64	.22	.00	
13	426.75	585.0	+3.6	3,180	1,045	0	0	257	84	.29	.00	
14	427.15	588.5	+3.5	3,146	1,028	0	0	272	90	.31	.00	
15	427.47	591.3	+2.8	3,274	1,512	0	0	274	76	.26	.00	
16	428.17	597.4	+6.1	4,522	1,040	0	0	284	103	.35	.00	
17	428.79	602.9	+5.5	4,125	989	0	0	284	94	.32	.00	
18	429.42	608.5	+5.6	4,370	1,203	0	0	296	53	.18	.00	
19	429.90	612.8	+4.3	3,582	1,040	0	0	291	98	.33	.00	
20	430.33	616.6	+3.8	3,290	995	0	0	276	78	.26	.00	
21	430.47	617.9	+1.3	2,680	1,696	0	0	258	93	.31	.00	
22	430.60	619.0	+1.2	2,344	1,394	0	0	263	99	.33	.00	
23	430.64	619.4	+0.4	1,896	1,372	0	0	278	66	.22	.00	
24	430.67	619.7	+0.3	1,964	1,572	0	0	244	12	.04	.05	
25	430.73	620.2	+0.5	2,324	1,761	0	0	238	54	.18	.00	
26	430.74	620.3	+0.1	1,873	1,515	0	0	253	60	.20	.00	
27	430.78	620.6	+0.4	1,992	1,496	0	0	262	54	.18	.18	
28	430.65	619.5	-1.2	1,531	1,801	0	0	254	63	.21	.00	
29	430.64	619.4	-0.1	2,055	1,776	0	0	261	63	.21	.00	
30	430.49	618.0	-1.3	1,796	2,135	0	0	270	69	.23	.00	
31	430.38	617.1	-1.0	2,068	2,228	0	0	271	66	.22	.00	
TOTALS			+80.5	91,120	40,531	0	0	8,037	2,086	7.13	.23	
ACRE-Feet			+80,500	180,737	80,393	0	0	15,941	4,138			

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

	RELEASE (ACRE-Feet)			PRECIPITATION	
POWER	80,393	OUTLET	0	THIS MONTH = .23	
SPILL	0	TOTAL	96,334	JULY 1, 2007 TO DATE = 14.69	
PUMPING PLANT	15,941				

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

JUNE 2008

FOLSOM LAKE DAILY OPERATIONS

RUN DATE August 8, 2008

DAY	ELEV	STORAGE		COMPUTED INFLOW C.F.S.	POWER	RELEASE - C.F.S.		PUMPING PLANT	EVAPORATION		PRECIP INCHES
		1000 ACRE-FEET IN LAKE	CHANGE			RIVER SPILL	OUTLET		C.F.S.	INCHES	
		617.1									
1	430.16	615.1	-2.0	1,736	2,389	0	0	272	69	.23	.00
2	429.92	612.9	-2.1	1,644	2,378	0	0	277	71	.24	.00
3	429.75	611.4	-1.5	1,825	2,241	0	0	289	77	.26	.00
4	429.55	609.6	-1.8	1,552	2,103	0	0	289	77	.26	.00
5	429.40	608.3	-1.3	1,788	2,103	0	0	269	89	.30	.00
6	429.12	605.8	-2.5	1,397	2,290	0	0	273	89	.30	.00
7	428.91	604.0	-1.9	1,564	2,136	0	0	281	86	.29	.00
8	428.71	602.2	-1.8	1,565	2,084	0	0	288	83	.28	.00
9	428.40	599.5	-2.7	1,571	2,562	0	0	294	94	.32	.00
10	427.90	595.1	-4.4	1,692	3,536	0	0	286	91	.31	.00
11	427.10	588.1	-7.0	1,557	4,690	0	0	283	114	.39	.00
12	426.36	581.6	-6.4	1,607	4,455	0	0	295	99	.34	.00
13	425.66	575.6	-6.1	1,290	3,952	0	0	302	86	.30	.00
14	424.88	568.9	-6.7	1,430	4,414	0	0	301	95	.33	.00
15	424.08	562.0	-6.8	1,270	4,345	0	0	292	74	.26	.00
16	423.27	555.2	-6.9	1,319	4,393	0	0	295	68	.31	.00
17	422.45	548.3	-6.9	1,153	4,262	0	0	287	79	.28	.00
18	421.58	541.0	-7.3	918	4,193	0	0	304	81	.29	.00
19	420.72	533.9	-7.1	1,262	4,496	0	0	293	83	.30	.00
20	419.90	527.2	-6.7	1,105	4,117	0	0	296	91	.33	.00
21	419.10	520.6	-6.5	1,245	4,125	0	0	308	101	.37	.00
22	418.29	514.1	-6.6	1,360	4,254	0	0	303	106	.39	.00
23	417.48	507.6	-6.5	1,155	4,050	0	0	301	84	.31	.00
24	416.87	502.7	-4.9	1,317	3,414	0	0	296	64	.24	.00
25	416.06	496.3	-6.4	841	3,749	0	0	285	45	.17	.00
26	415.42	491.3	-5.0	1,146	3,325	0	0	283	74	.28	.00
27	414.93	487.4	-3.8	1,335	2,938	0	0	298	37	.14	.00
28	414.35	482.9	-4.5	1,359	3,284	0	0	287	63	.24	.00
29	413.75	478.3	-4.6	1,178	3,168	0	0	296	68	.26	.00
30	413.04	472.8	-5.5	933	3,335	0	0	289	67	.26	.00
TOTALS			-144.2	41,134	102,781	0	0	8,662	2,425	8.58	.00
ACRE-FEET			-144,200	81,589	203,866	0	0	17,181	4,810		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

	RELEASE (ACRE-FEET)		PRECIPITATION	
POWER	203,866	OUTLET	0	
SPILL	0	TOTAL	221,047	THIS MONTH = .00
PUMPING PLANT	17,181			JULY 1, 2007 TO DATE = 14.69

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

JULY 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: September 26, 2007

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	POWER	RELEASE - C.F.S.		PUMPING PLANT	EVAPORATION		PRECIP INCHES
		1000 ACRES- FEET IN LAKE	CHANGE			RIVER SPILL	OUTLET		C.F.S.	INCHES	
		655.9									
1	433.84	648.5	-7.5	1,134	4,537	0	0	282	83	.27	.00
2	432.94	640.2	-8.3	884	4,671	0	0	291	91	.30	.00
3	432.29	634.3	-5.9	1,505	4,101	0	0	296	91	.30	.00
4	431.74	629.3	-5.0	1,389	3,543	0	0	286	75	.25	.00
5	431.18	624.2	-5.1	1,551	3,714	0	0	304	84	.28	.00
6	430.65	619.5	-4.8	1,803	3,793	0	0	310	102	.34	.00
7	430.20	615.4	-4.0	1,508	3,162	0	0	303	77	.26	.00
8	429.67	610.7	-4.7	1,057	3,100	0	0	294	47	.16	.00
9	429.18	606.2	-4.5	1,378	3,327	0	0	291	47	.16	.00
10	428.77	602.7	-3.5	1,603	2,975	0	0	281	88	.30	.00
11	428.14	597.2	-5.6	1,225	3,701	0	0	262	65	.22	.00
12	427.46	591.2	-6.0	1,372	4,049	0	0	264	64	.22	.00
13	426.77	585.2	-6.0	1,160	3,867	0	0	242	87	.30	.00
14	426.17	580.0	-5.2	1,889	4,154	0	0	284	87	.30	.00
15	425.50	574.2	-5.8	1,646	4,186	0	0	284	89	.31	.00
16	424.79	568.1	-6.1	1,449	4,153	0	0	289	80	.28	.00
17	423.91	560.6	-7.5	1,136	4,574	0	0	273	71	.25	.00
18	423.28	555.3	-5.3	1,825	4,196	0	0	264	51	.18	.00
19	422.54	549.0	-6.2	1,189	4,013	0	0	262	51	.18	.00
20	421.80	542.9	-6.2	1,445	4,226	0	0	268	70	.25	.00
21	421.12	537.2	-5.6	1,610	4,113	0	0	269	75	.27	.00
22	420.39	531.2	-6.0	1,848	4,331	0	0	276	75	.27	.00
23	419.60	524.7	-6.5	1,371	4,288	0	0	276	69	.25	.00
24	418.93	519.3	-5.5	1,314	3,717	0	0	275	74	.27	.00
25	418.37	514.7	-4.5	1,532	3,486	0	0	273	54	.20	.00
26	417.88	510.8	-3.9	1,464	3,122	0	0	263	70	.26	.00
27	417.43	507.2	-3.6	1,537	3,002	0	0	270	81	.30	.00
28	416.91	503.0	-4.2	1,488	3,228	0	0	275	80	.30	.00
29	416.28	498.0	-5.0	1,137	3,297	0	0	278	80	.30	.00
30	415.72	493.6	-4.4	1,304	3,184	0	0	262	66	.25	.00
31	415.20	489.5	-4.1	1,116	2,847	0	0	270	58	.22	.00
TOTALS			-166.5	43,689	118,657	0	0	8,637	2,282	8.00	.00
ACRES- FEET			-166,500	86,657	231,389	0	0	17,131	4,526		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

	RELEASE (ACRE- FEET)			PRECIPITATION	
POWER	231,389	OUTLET	0	THIS MONTH =	.00
SPILL	0	TOTAL	248,520	JULY 1, 2007 TO DATE =	.00
PUMPING PLANT	17,131				

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

AUGUST 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: October 17, 2007

DAY	ELEV	STORAGE		COMPUTED INFLOW C.F.S.	RELEASE - C.F.S.			PUMPING PLANT	EVAPORATION		PRECIP INCHES
		1000 ACRE-Feet IN LAKE	CHANGE		POWER	RIVER SPILL	OUTLET		C.F.S.	INCHES	
		489.5									
1	414.58	484.7	-4.8	1,370	3,439	0	0	280	81	.31	.00
2	414.03	480.4	-4.3	1,304	3,099	0	0	284	78	.30	.00
3	413.47	476.1	-4.3	1,364	3,185	0	0	280	75	.29	.00
4	412.94	472.0	-4.1	1,356	3,054	0	0	286	72	.28	.00
5	412.31	467.2	-4.8	1,144	3,202	0	0	283	82	.32	.00
6	411.65	462.2	-5.0	1,090	3,276	0	0	261	79	.31	.00
7	411.10	458.1	-4.2	1,396	3,199	0	0	249	43	.17	.00
8	410.53	453.8	-4.3	1,232	3,078	0	0	255	53	.21	.00
9	409.86	448.8	-5.0	1,131	3,349	0	0	254	50	.20	.00
10	409.26	444.3	-4.4	1,076	2,997	0	0	263	57	.23	.00
11	408.68	440.1	-4.3	1,194	3,014	0	0	265	67	.27	.00
12	408.24	436.8	-3.2	1,539	2,823	0	0	264	76	.31	.00
13	407.76	433.4	-3.5	1,452	2,889	0	0	269	56	.23	.00
14	407.29	429.9	-3.4	1,557	2,950	0	0	270	53	.22	.00
15	406.85	426.8	-3.2	1,269	2,544	0	0	267	58	.24	.00
16	406.36	423.3	-3.5	1,407	2,840	0	0	262	75	.31	.00
17	405.88	419.8	-3.4	1,139	2,539	0	0	263	65	.27	.00
18	405.42	416.6	-3.3	1,448	2,752	0	0	269	69	.29	.00
19	404.86	412.6	-4.0	1,113	2,777	0	0	272	57	.24	.00
20	404.36	409.1	-3.5	1,366	2,807	0	0	270	54	.23	.00
21	403.94	406.2	-2.9	1,483	2,637	0	0	272	54	.23	.00
22	403.47	402.9	-3.3	1,342	2,627	0	32	267	56	.24	.00
23	403.03	399.9	-3.0	1,305	2,449	0	57	271	63	.27	.00
24	402.48	396.1	-3.8	975	2,544	0	0	267	62	.27	.00
25	401.97	392.6	-3.5	1,308	2,737	0	0	266	62	.27	.00
26	401.53	389.7	-3.0	1,379	2,562	0	0	261	55	.24	.00
27	400.93	385.6	-4.0	954	2,676	0	0	267	52	.23	.00
28	400.47	382.5	-3.1	1,290	2,552	0	0	235	52	.23	.00
29	400.24	381.0	-1.5	1,906	2,358	0	0	266	56	.25	.00
30	399.75	377.8	-3.3	1,525	2,842	0	0	262	61	.27	.00
31	399.43	375.6	-2.1	1,493	2,217	0	0	274	67	.30	.00
TOTALS			-114.0	40,909	88,014	0	69	8,284	1,940	8.03	.00
ACRE-Feet			-114,000	81,143	174,576	0	177	16,431	3,848		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

RELEASE (ACRE-Feet)		PRECIPITATION	
POWER	174,576	OUTLET	177
SPILL	0	TOTAL	191,184
PUMPING PLANT	16,431		
		THIS MONTH =	.00
		JULY 1, 2007 TO DATE =	.00

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

SEPTEMBER 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: October 31, 2007

DAY	ELEV	STORAGE		COMPUTED INFLOW C.F.S.	RELEASE - C.F.S.			EVAPORATION		PRECIP INCHES	
		1000 ACRE-Feet IN LAKE	CHANGE		POWER	RIVER SPILL	OUTLET	PUMPING PLANT	C.F.S.		INCHES
		375.6									
1	398.92	372.3	-3.4	1,411	2,761	0	0	276	69	.31	.00
2	398.33	368.4	-3.9	984	2,582	0	0	277	68	.31	.00
3	397.89	365.6	-2.9	1,211	2,308	0	0	280	68	.31	.00
4	397.51	363.1	-2.5	1,385	2,269	0	0	281	72	.33	.00
5	397.05	360.1	-3.0	1,035	2,245	0	0	251	37	.17	.00
6	396.62	357.4	-2.8	880	1,962	0	0	260	45	.21	.00
7	396.29	355.3	-2.1	1,386	2,138	0	0	255	56	.26	.00
8	395.89	352.7	-2.5	996	1,994	0	0	244	43	.20	.00
9	395.53	350.5	-2.3	1,169	2,020	0	0	255	40	.19	.00
10	395.02	347.2	-3.2	990	2,314	0	0	257	44	.21	.00
11	394.63	344.8	-2.4	891	1,843	0	0	241	36	.17	.00
12	394.49	343.9	-0.9	1,286	1,445	0	0	238	44	.21	.00
13	394.31	342.8	-1.1	925	1,243	0	0	230	19	.09	.00
14	394.04	341.1	-1.7	1,322	1,905	0	0	228	40	.19	.00
15	393.80	339.6	-1.5	1,103	1,588	0	0	228	35	.17	.00
16	393.58	338.3	-1.4	1,185	1,596	0	0	233	41	.20	.00
17	393.43	337.3	-0.9	1,173	1,364	0	0	235	41	.20	.00
18	393.12	335.4	-1.9	844	1,540	0	0	231	37	.18	.00
19	392.93	334.3	-1.2	1,152	1,475	0	0	223	43	.21	.00
20	392.77	333.3	-1.0	1,237	1,507	0	0	185	37	.18	.00
21	392.62	332.4	-0.9	1,207	1,440	0	0	191	37	.18	.00
22	392.52	331.6	-0.8	1,173	1,263	0	0	189	29	.14	.00
23	392.35	330.7	-1.0	1,034	1,358	0	0	190	10	.05	.03
24	392.12	329.3	-1.4	811	1,307	0	0	193	18	.09	.00
25	391.96	328.3	-1.0	1,051	1,318	0	0	198	26	.13	.00
26	391.87	327.8	-0.5	1,213	1,242	0	0	206	38	.19	.00
27	391.84	327.6	-0.2	1,523	1,364	0	0	210	40	.20	.00
28	391.68	326.7	-1.0	1,434	1,667	0	0	205	48	.24	.00
29	391.39	324.9	-1.7	753	1,427	0	0	187	20	.10	.04
30	391.08	323.0	-1.9	702	1,424	0	0	186	34	.17	.00
TOTALS			-52.8	33,466	51,907	0	0	6,863	1,215	5.79	.07
ACRE-Feet			-52,800	66,380	102,958	0	0	13,613	2,410		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

RELEASE (ACRE-Feet)				PRECIPITATION	
POWER	102,958	OUTLET	0	THIS MONTH =	.07
SPILL	0	TOTAL	116,571	JULY 1, 2007 TO DATE =	.07
PUMPING PLANT	13,613				

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

OCTOBER 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE February 7, 2008

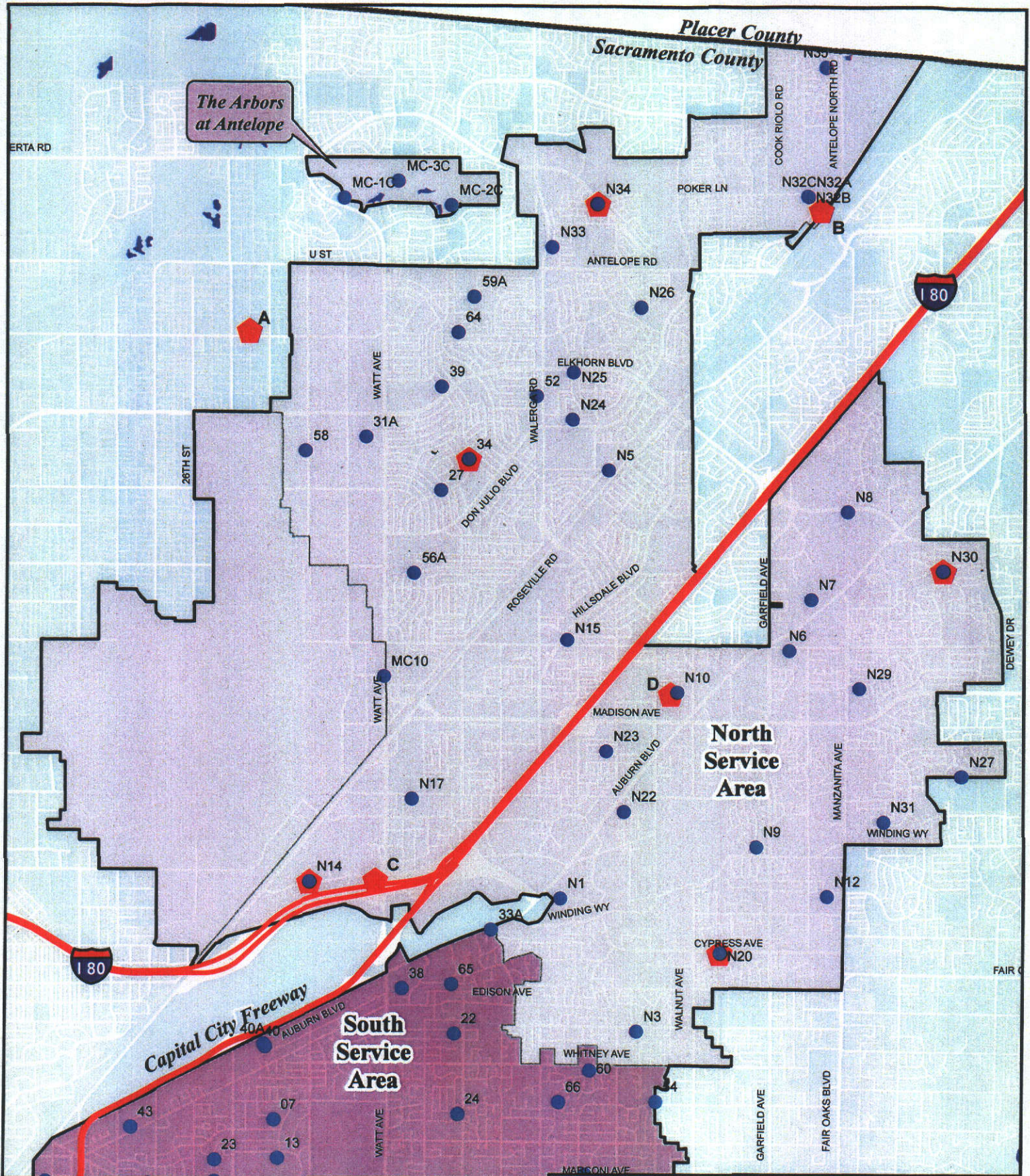
DAY	ELEV	STORAGE		COMPUTED INFLOW C.F.S.	RELEASE - C.F.S.			EVAPORATION		PRECIP INCHES	
		1000 ACRE-Feet IN LAKE	CHANGE		POWER	RIVER SPILL	OUTLET	PUMPING PLANT	C.F.S.		INCHES
		323.0									
1	390.97	322.4	-0.7	1,169	1,278	0	0	182	32	.16	.00
2	390.79	321.3	-1.1	1,071	1,392	0	0	187	32	.16	.00
3	390.52	319.7	-1.6	645	1,221	0	0	200	34	.17	.00
4	390.27	318.2	-1.5	732	1,262	0	0	186	34	.17	.00
5	390.03	316.8	-1.4	744	1,263	0	0	181	20	.10	.00
6	389.75	315.1	-1.6	800	1,424	0	0	178	29	.15	.00
7	389.47	313.5	-1.6	849	1,467	0	0	187	25	.13	.00
8	389.16	311.7	-1.8	729	1,418	0	0	199	31	.16	.00
9	388.97	310.6	-1.1	869	1,211	0	0	189	31	.16	.00
10	388.91	310.2	-0.3	1,430	1,412	0	0	164	29	.15	.00
11	388.79	309.5	-0.7	1,108	1,281	0	0	153	15	.08	.83
12	388.65	308.7	-0.8	1,136	1,375	0	0	150	21	.11	.00
13	388.48	307.7	-1.0	789	1,142	0	0	145	0	.00	.12
14	388.25	306.4	-1.3	825	1,321	0	0	146	31	.16	.00
15	387.99	304.9	-1.5	855	1,442	0	0	150	23	.12	.00
16	387.75	303.5	-1.4	960	1,494	0	0	147	13	.07	.00
17	387.39	301.4	-2.1	459	1,384	0	0	135	0	.00	.09
18	387.03	299.4	-2.1	347	1,240	0	0	128	19	.10	.01
19	386.77	297.9	-1.5	688	1,282	0	0	134	15	.08	.00
20	386.60	296.9	-1.0	950	1,291	0	0	138	6	.03	.18
21	386.44	296.0	-0.9	1,020	1,321	0	0	138	17	.09	.01
22	386.28	295.1	-0.9	944	1,238	0	0	139	24	.13	.00
23	386.01	293.6	-1.5	809	1,416	0	0	146	17	.09	.00
24	385.79	292.4	-1.2	791	1,233	0	0	150	28	.15	.00
25	385.58	291.1	-1.3	854	1,323	0	0	156	22	.12	.00
26	385.47	290.6	-0.5	1,118	1,197	0	0	153	22	.12	.00
27	385.09	288.5	-2.1	787	1,684	0	0	158	15	.08	.00
28	384.90	287.4	-1.1	938	1,289	0	0	163	17	.09	.00
29	384.73	286.5	-0.9	1,174	1,477	0	0	152	18	.10	.09
30	384.47	285.0	-1.4	773	1,337	0	0	140	18	.10	.09
31	384.31	284.2	-0.8	794	1,099	0	0	129	11	.06	.00
TOTALS			-38.8	27,157	41,204	0	0	4,913	649	3.39	1.42
ACRE-Feet			-38,800	53,866	81,728	0	0	9,745	1,287		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

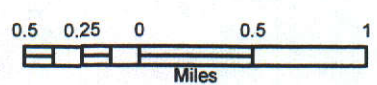
SUMMARY

RELEASE (ACRE-Feet)				PRECIPITATION	
POWER	81,728	OUTLET	0	THIS MONTH =	1.42
SPILL	0	TOTAL	91,473	JULY 1, 2007 TO DATE =	1.49
PUMPING PLANT	9,745				



Legend

- Active Well
- ◆ Proposed Groundwater Monitoring Well



**Portion of Sacramento Suburban Water District
North Service Area Active Wells and
Proposed Groundwater Monitoring Wells**

Base Data: Sacramento County Gis Base Map
 Projection: CA State Plane 2, NAD83
 Scale: Relative
 Prepared by: J.W.S. SSWD
 Sacramento, CA - April 23, 2009
 North_Service_Area_Active Wells-GVMW.mxd

Attachment 9
Well Identification Numbers

Well #	DPH ID # (PS Code)
27	3410001-133
31A	3410001-135
34	3410001-136
39	3410001-137
52	3410001-139
56A	3410001-145
58	3410001-142
59A	3410001-146
64	3410001-144
N1	3410001-076
N3	3410001-077
N5	3410001-078
N6	3410001-079
N7	3410001-080
N8	3410001-081
N9	3410001-082
N10	3410001-083
N12	3410001-085
N14	3410001-087
N15	3410001-088
N17	3410001-089
N20	3410001-092
N22	3410001-094
N23	3410001-095
N24	3410001-096
N25	3410001-097
N26	3410001-098
N27	3410001-099
N29	3410001-101
N30	3410001-102
N31	3410001-103
N32A	3410001-104
N32B	3410001-105
N32C	3410001-106
N33	3410001-130
N34	3410001-107
N35	3410001-075
MC-1C	3410001-129
MC-2C	3410001-128
MC-3C	3410001-127
MC-10	3410001-111

Attachment 10
North Service Area
Historic Surface Water Deliveries

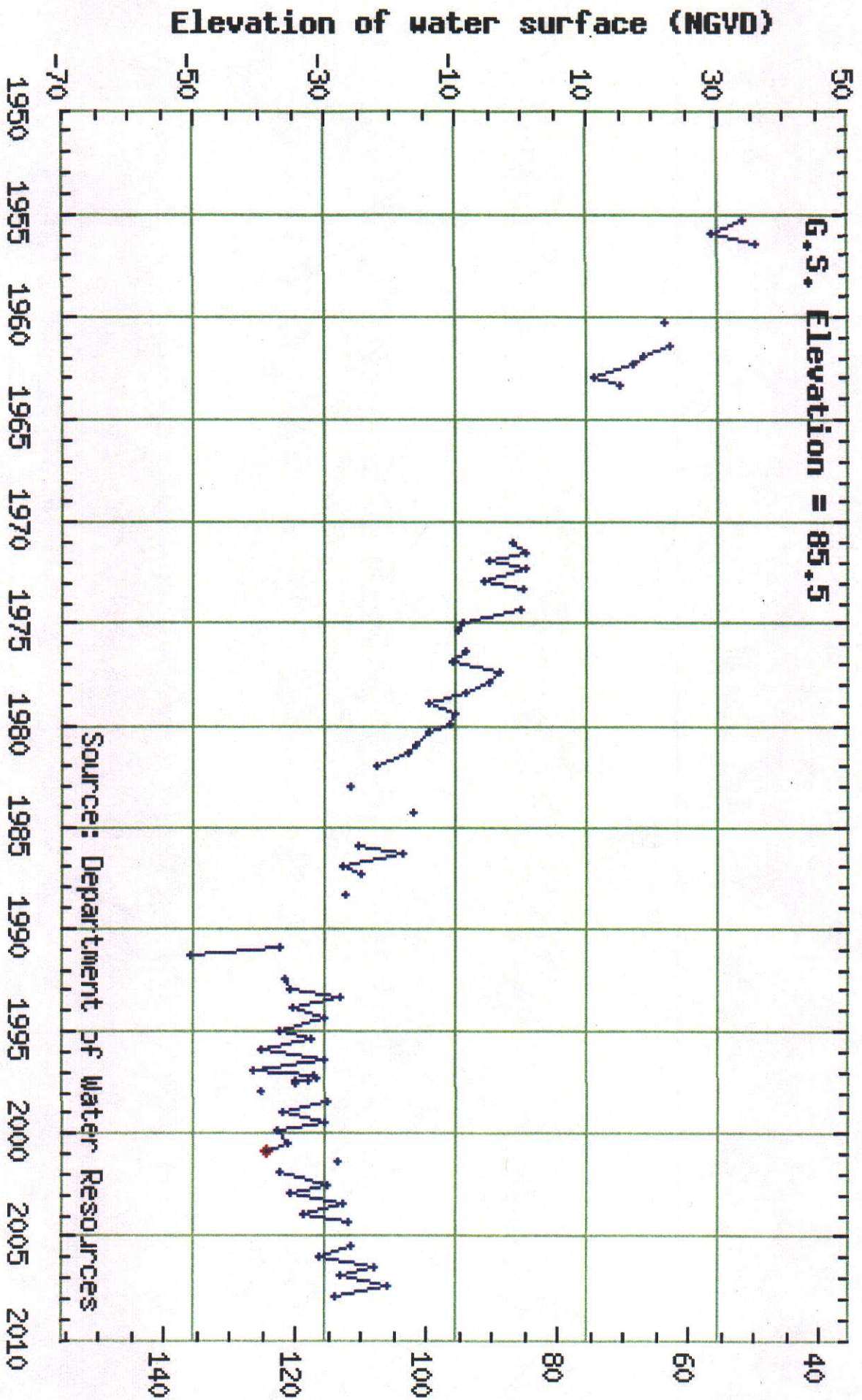
Year	Acre-Feet
1998	12,145
1999	8,573
2000	14,982
2001	15,567
2002	16,938
2003	15,341
2004	15,419
2005	14,357
2006	14,412
2007	4,163
2008	12,246

Attachment 11
Historic SSWD North Service Area Groundwater Production

		NSA (acre-feet)		
		Surface	Ground	Total
2003	June	2276.0	906.0	3182.0
	July	2013.0	1876.0	3889.0
	Aug.	1711.0	1742.0	3453.0
	Sept.	1943.0	1184.0	3127.0
			7943.0	5708.0
2004	June	2037.0	973.0	3010.0
	July	1346.0	2087.0	3433.0
	Aug.	1269.0	1855.0	3124.0
	Sept.	1607.0	1548.0	3155.0
			6259.0	6463.0
2005	June	1880.0	229.8	2109.8
	July	1289.0	1647.1	2936.1
	Aug.	1011.0	2418.1	3429.1
	Sept.	1548.0	881.8	2429.8
			5728.0	5176.8
2006	June	1726.0	826.5	2552.5
	July	783.0	2830.6	3613.6
	Aug.	1738.0	1201.6	2939.6
	Sept.	2010.0	202.1	2212.1
			6257.0	5060.8
2007	June	0.0	3244.2	3244.2
	July	0.0	3664.7	3664.7
	Aug.	0.0	3543.4	3543.4
	Sept.	0.0	3504.5	3504.5
			0.0	13956.8
2008	June	1658.0	840.1	2498.1
	July	1671.0	559.0	2230.0
	Aug.	1584.0	593.1	2177.1
	Sept.	1287.0	569.2	1856.2
			6200.0	2561.4

Groundwater Levels, 10N05E14Q002M

Sacramento Valley (Sacramento County)

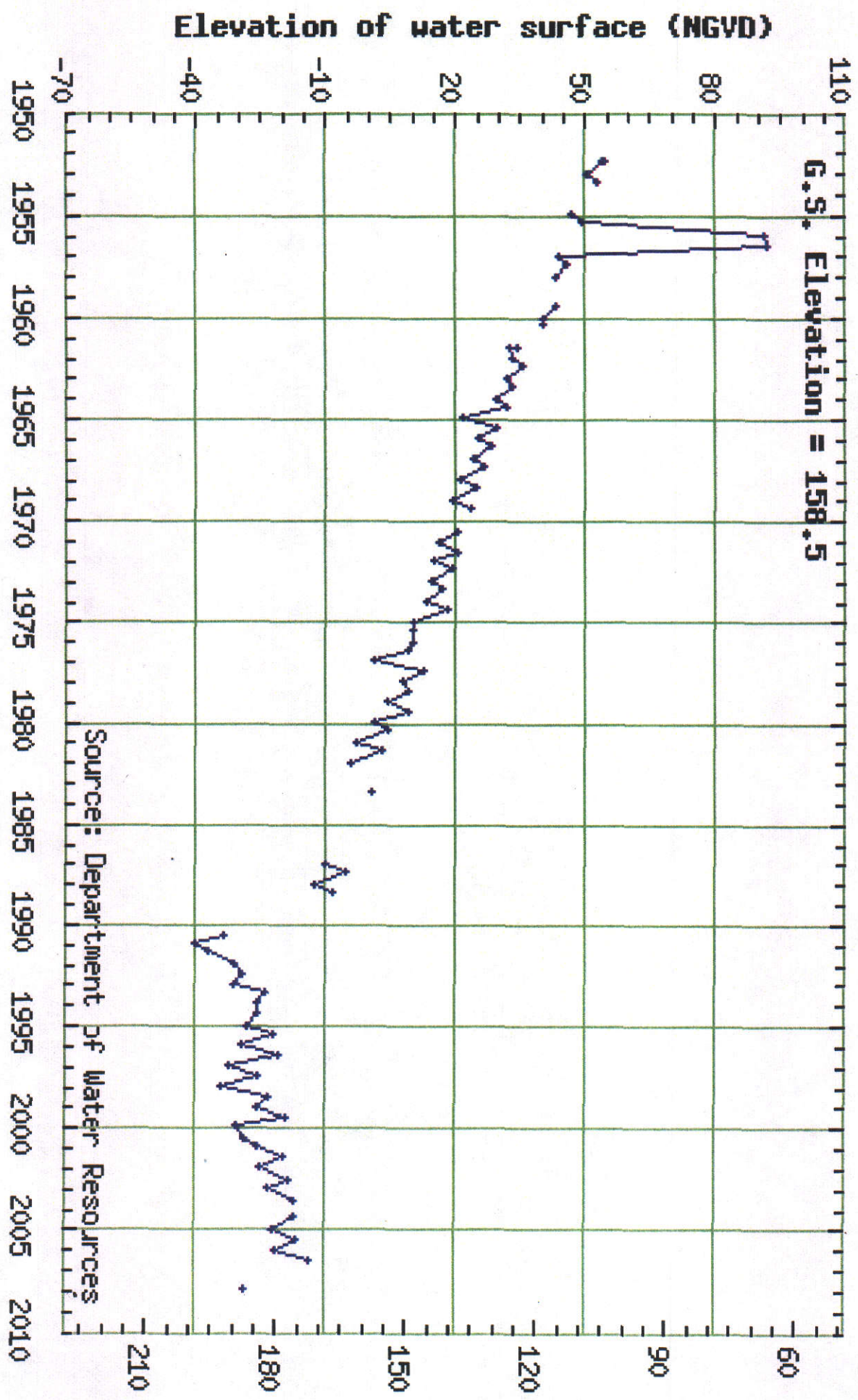


Depth to water below land surface, feet

Groundwater Levels, 10N06E21F002M

Sacramento Valley (Sacramento County)

G.S. Elevation = 158.5



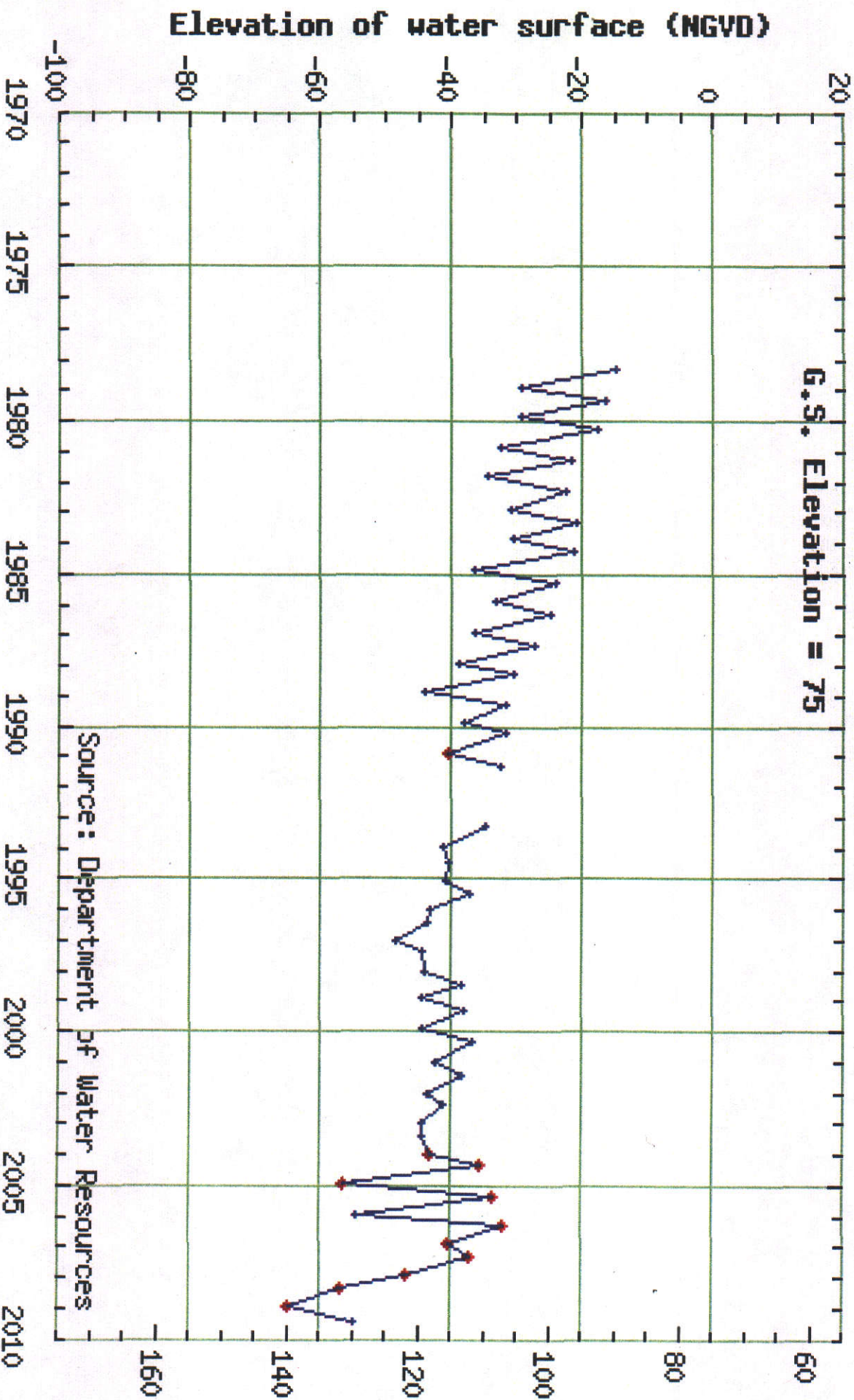
Source: Department of Water Resources

Calendar Year ♦ Questionable Measurement

Groundwater Levels, 09N05E12L001M

Sacramento Valley (Sacramento County)

G.S. Elevation = 75



Source: Department of Water Resources

Calendar Year ♦ Questionable Measurement

RESOLUTION NO. 09-07

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE SACRAMENTO SUBURBAN WATER DISTRICT
MAKING FINDINGS UNDER WATER CODE SECTION 1745.10
AND APPROVING AGREEMENTS FOR TRANSFER OF WATER
TO THE 2009 DROUGHT WATER BANK**

WHEREAS, the State of California is currently in its third consecutive year of drought and to lessen the effects of the drought the California Department of Water Resources ("DWR") has instituted the 2009 Drought Water Bank to purchase available water supplies from north of the Delta for transfer to water users downstream of the Delta whose water supplies from the State Water Project ("SWP") and Central Valley Project ("CVP") have been significantly reduced;

WHEREAS, the District is capable of providing 100 percent of its customers' water demand with groundwater, but has implemented conjunctive use programs to protect and improve the health of the North Sacramento Groundwater Basin by using surface water in lieu of pumping groundwater;

WHEREAS, the EIR for the Water Forum Agreement determined that the annual sustainable safe yield of the North Sacramento Groundwater Basin is 131,000 acre-feet, but total pumping of groundwater from the basin has not exceeded 100,000 acre-feet since at least 2000;

WHEREAS, the levels of groundwater in the North Sacramento Groundwater Basin have been stable to increasing since the mid-1990s;

WHEREAS, the District, as part of its conjunctive use programs, has entered into two surface water supply contracts, including: (1) a contract with Placer County Water Agency for a minimum of 12,000 acre-feet of untreated surface water delivered to Folsom Reservoir, which is diverted for treatment at San Juan Water District's water treatment plant and delivered into the District's North Service Area; and (2) a contract with the City of Sacramento for up to 20 mgd of treated surface water delivered into the District's South Service Area transmission system; and

WHEREAS, both Placer County Water Agency and the City of Sacramento are willing to permit the District to forego diverting a portion of its contractual surface water entitlements for use within the District and to instead transfer the foregone water supplies to the Drought Water Bank.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Sacramento Suburban Water District as follows:

1. The foregoing recitals are true and are incorporated into this Resolution by this reference.
2. The Board finds and determines that:

(a) the District has made significant investments in conjunctive use water supplies and infrastructure to maximize the use of surface water supplies and to minimize the impacts of District demands on the North Sacramento Groundwater Basin;

(b) the District's conjunctive use efforts have significantly contributed to the stable to increasing groundwater levels in the North Sacramento Groundwater Basin;

(c) any increase in the District's pumping of groundwater to permit it to transfer a portion of its surface water supplies to the Drought Water Bank will not adversely impact the North Sacramento Groundwater Basin because an increase in groundwater pumping will not cause overall extractions to exceed the 131,000 annual sustainable safe yield of the basin and the District's previous efforts have ensured that there is sufficient groundwater available for pumping without lowering basin groundwater levels;

(d) for the reasons set forth above, the District's proposed transfer of foregone surface water complies with subdivision (b) of Water Code section 1745.10 because the District's use of groundwater to replace foregone surface water will not create or contribute to conditions of long-term overdraft in the North Sacramento Groundwater Basin;

(e) because the District will make a quantity of surface water available to the Drought Water Bank by pumping additional groundwater without injury to the North Sacramento Groundwater Basin, the District's ratepayers will be benefited because the proposed water transfer will generate additional revenues that can be used for water system maintenance and upgrades without any impacts on service; and

(f) DWR, as lead agency, has determined that all water transfers to the Drought Water Bank are exempt under CEQA's emergency exemptions as further described and ordered in the Governor's February 27, 2009 Proclamation declaring a drought emergency and therefore, the District is not required to conduct further review under CEQA of the proposed transfer of foregone surface water.

3. Consistent with the findings and determinations set forth in this Resolution and in furtherance of the proposed transfer of water to the Drought Water Bank to assist in the current drought emergency, the Board hereby approves the following agreements:

(a) Agreement Between the Department of Water Resources of the State of California and Sacramento Suburban Water District for Short-Term Purchase of Water for the 2009 Drought Water Bank;

(b) Agreement Between Sacramento Suburban Water District and Placer County Water Agency for Consent to Groundwater Substitution Transfer; and

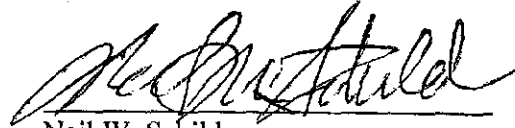
(c) Agreement Between the City of Sacramento and Sacramento Suburban Water District for Consent to Groundwater Substitution Transfer.

The foregoing agreements are attached to and made a part of this Resolution as Exhibits A through C respectively.

4. The General Manager is directed to take all actions necessary to implement this Resolution, including executing each of the agreements approved in Section 3 hereof subject to approval by District legal counsel of any non-substantive changes to such agreements.

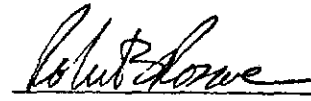
PASSED AND ADOPTED by the Board of Directors of the Sacramento Suburban Water District on April 20, 2009, by the following vote:

AYES: Decio, Fellenz, Gayle, Hanson and Schild.
NOES: None.
ABSENT: None.


Neil W. Schild
President, Board of Directors
Sacramento Suburban Water District

I hereby certify that the foregoing resolution was duly and regularly adopted and passed by the Board of Directors of Sacramento Suburban Water District at a regular meeting hereof held on April 20, 2009.

(SEAL)

By: 
Robert S. Roscoe
General Manager/Secretary
Sacramento Suburban Water District