State of California
State Water Resources Control Board
DIVISION OF WATER RIGHTS
P.O. Box 2000, Sacramento, CA 95812-2000
Info: (916) 341-5300, FAX: (916) 341-5400, Web: http://www.waterrights.ca.gov

ENVIRONMENTAL INFORMATION FOR PETITIONS

(THIS IS NOT A CEQA DOCUMENT)

2009 MAY 18 PM 4:06

APPLICATION NO. 18087 **PERMIT NO.** 13858 **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 ten 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 federals 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 rediversion 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:

Tree Dominated Communities	Shrub Dominated Communities
Mixed Conifer	Bitterbrush
Sierran Mixed Conifer	Sagebrush
White Fir	Mixed Chaparral
Klamath Mixed Conifer	
Douglas-Fir	Herbaceous Dominated Communities
Jeffrey Pine	Annual Grassland
Ponderosa Pine	Fresh Emergent Wetland
Montane Hardwood	
Valley Foothill Hardwood	Aquatic Communities
Blue Oak Woodland	Riverine
Coastal Oak Woodland	Lacustrine
Valley Foothill Hardwood-Conifer	
	Developed Communities
	Urban

(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 rediversion 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 rediversion 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 95821-5348

Owner of Source:
Placer County Water Agency
PO Box 6570
144 Ferguson Road
Auburn, CA 95604

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

Consulting Engineer: (Plan and Design of Work)
Tully & Young, Inc.
3600 American River Drive, Suite 260
Sacramento, CA 95864

Description of proposed action:
Please see transfer proposal submitted to SCWA under separate cover on March 26, 2009.

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, 2009.

To Be Completed by the Sacramento County Water Agency

Is proposal is 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

Ver 042409

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: Tracy [signature] 4/14/09
Program Management Branch Chief Date

Concur: Mike Chrisman 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 then 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.

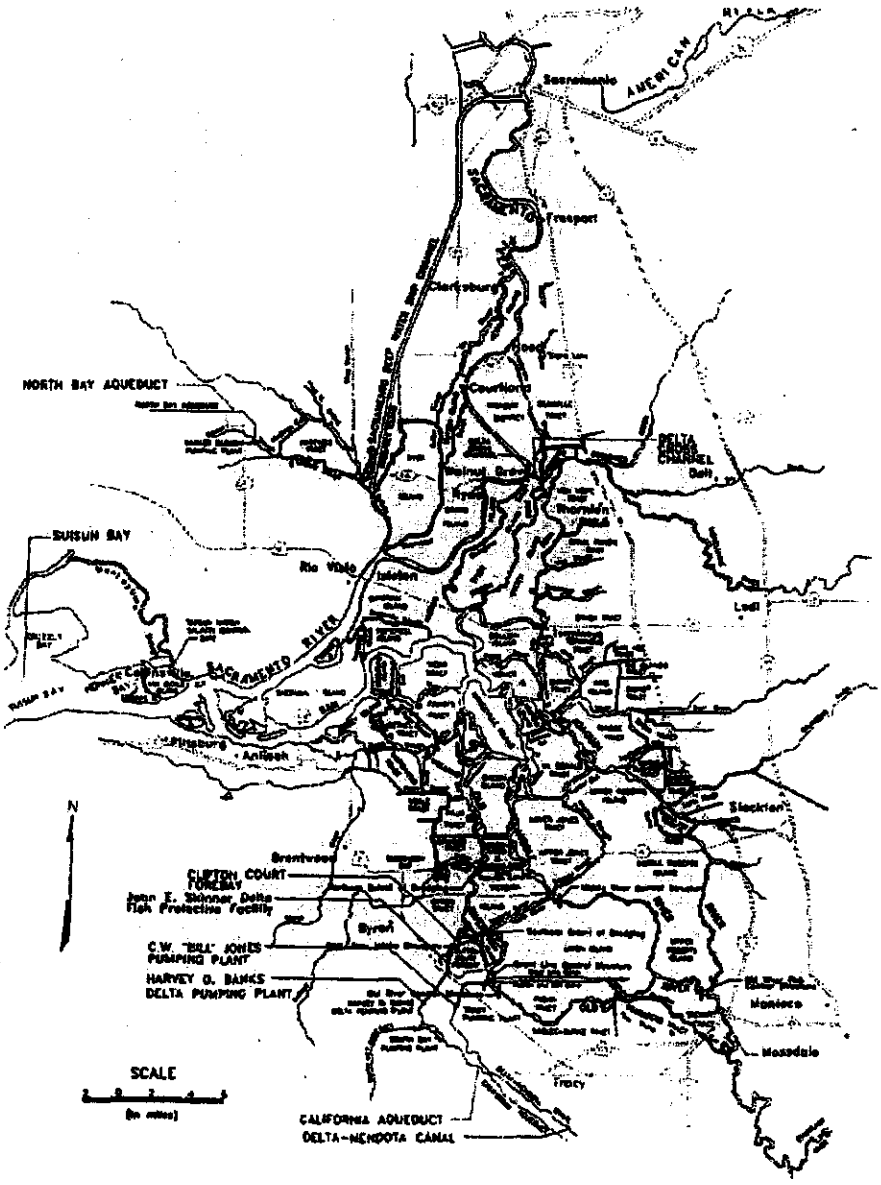
Aesthetics: The proposed action does not involve construction, introduction of new scenic features, or activities that would visually change the landscape for more than one season. The proposed action could, however, result in temporary changes or seasonal changes in the landscape. These changes would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

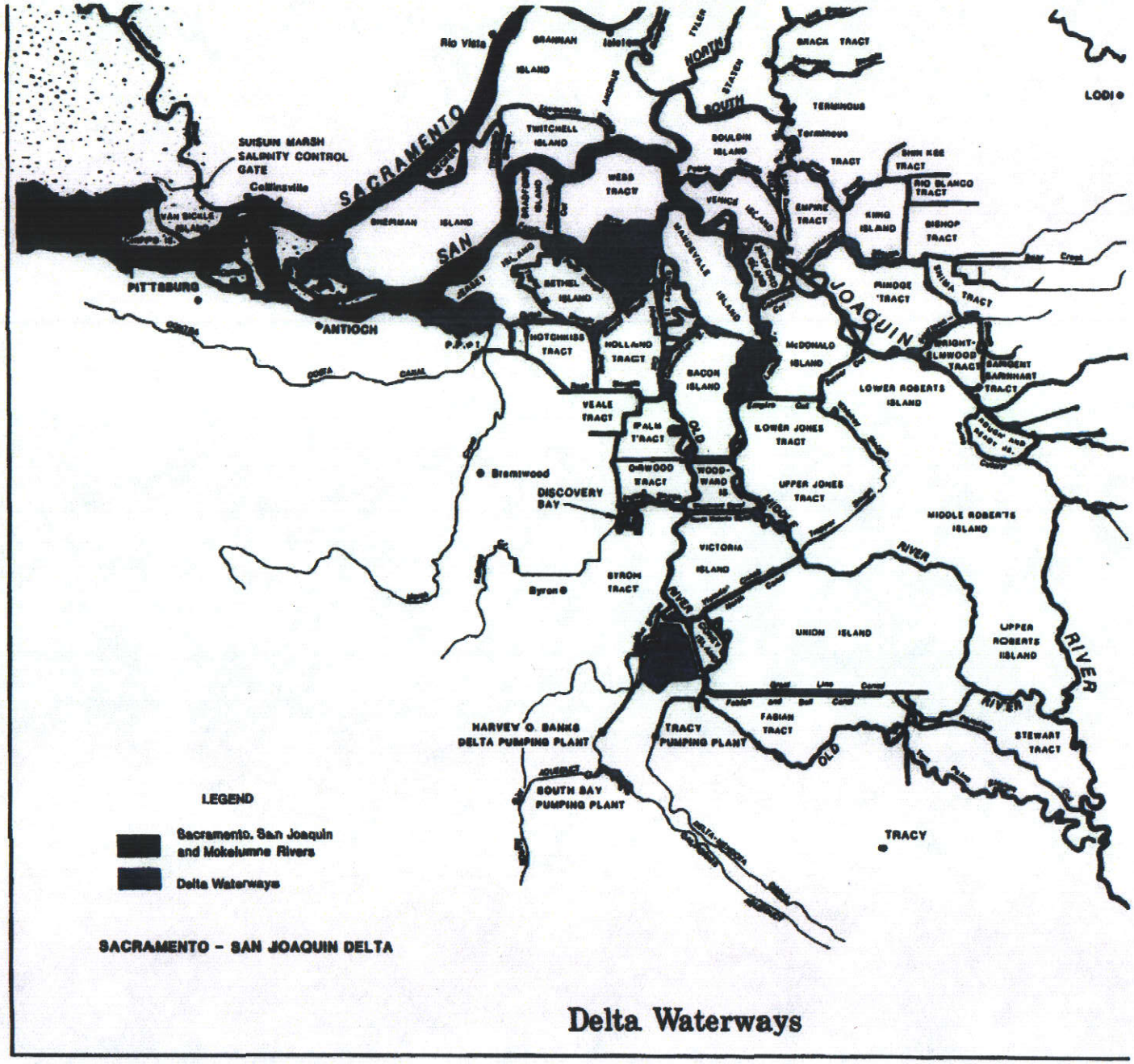
of 600,000 af for all water transfers and transfer window of July through September.

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



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 rediversion 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 rediversion, 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 rediversion:

   Harvey O. Banks Pumping Plant within the NW¼ of SE¼ of Projected section 20, T1S, R3E, MDB&M.

   CVP Pumping Plant within the SW¼ of SW¼ 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 rediversion 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. Bunn

for Harry M. Schueller, Chief
Division of Water Rights

Dated: August 2, 2001

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) 341-5400 • Web Site Address: http://www.swrcb.ca.gov
Division of Water Rights: http://www.waterrights.ca.gov

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

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

AUG 0 2 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 rediversion, 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. Buringa

for Harry M. Schueller, Chief
Division of Water Rights

Enclosure

cc: (See attached list)

"The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at http://www.swrcb.ca.gov"

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

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: Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River@Vernalis -prev day-	7-day Average	Monthly Average	Total Delta Inflow	NDCU	DELTA EXPORTS: Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron Bethany (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	OUTFLOW INDEX: NDOI daily	7-day Avg	Monthly Avg	Export/Inflow: Daily (%)	3 Day (%)	14 Day (%)
1-May-08	8,241	210	715	696	2,987	3,000	2,987	12,850	2,000	883	537	177	65	85	1,518	1,467	8,341	8,737	8,341	9.8%	11.4%	9.9%
2-May-08	8,138	209	716	689	2,987	3,073	3,008	12,719	2,000	886	836	189	60	88	1,748	1,465	8,070	8,465	8,188	11.0%	11.2%	10.8%
3-May-08	8,127	207	680	633	3,020	3,057	3,019	12,686	2,080	685	837	206	50	86	1,774	1,468	8,082	8,146	8,080	11.7%	11.8%	10.2%
4-May-08	7,828	206	676	620	3,041	3,036	3,029	12,371	2,100	680	836	216	50	60	1,762	1,531	8,408	8,880	8,016	11.9%	11.7%	10.8%
5-May-08	6,883	204	663	623	3,057	3,021	3,031	11,540	2,100	686	842	216	65	84	1,745	1,530	7,085	8,823	8,671	12.8%	12.0%	11.1%
6-May-08	7,120	203	656	641	3,043	3,040	3,047	11,663	2,100	680	844	200	53	84	1,774	1,531	7,780	8,490	8,636	12.7%	12.4%	11.3%
7-May-08	7,706	201	654	650	3,128	3,063	3,063	12,307	2,130	686	843	206	67	90	1,761	1,531	8,407	8,610	8,610	11.0%	12.3%	11.5%
8-May-08	8,207	200	643	636	3,155	3,087	3,084	12,824	2,150	682	842	203	56	80	1,772	1,533	8,602	8,471	8,879	11.4%	12.0%	11.6%
9-May-08	7,878	200	657	635	3,231	3,134	3,106	12,803	2,200	680	843	200	63	80	1,770	1,536	8,723	8,435	8,865	11.7%	11.8%	11.7%
10-May-08	8,080	200	680	638	3,283	3,163	3,130	12,881	2,200	684	843	203	50	91	1,761	1,536	8,880	8,438	8,636	11.6%	11.8%	11.9%
11-May-08	7,675	200	658	633	3,248	3,216	3,148	12,622	2,300	684	842	203	50	92	1,771	1,536	8,601	8,464	8,632	11.7%	11.8%	11.9%
12-May-08	7,388	200	642	588	3,428	3,277	3,175	12,218	2,300	686	840	204	53	80	1,785	1,530	8,183	8,510	8,603	12.1%	11.8%	11.9%
13-May-08	8,810	200	636	807	3,472	3,305	3,186	12,834	2,300	680	830	198	56	85	1,745	1,526	8,880	8,676	8,880	11.3%	11.7%	11.8%
14-May-08	8,185	200	611	586	3,317	3,317	3,188	12,880	2,350	680	830	223	76	83	1,700	1,527	8,730	8,721	8,620	11.3%	11.5%	11.7%
15-May-08	8,458	200	610	578	3,340	3,315	3,191	13,087	2,380	680	843	241	82	107	1,788	1,533	8,630	8,712	8,641	11.1%	11.2%	11.6%
16-May-08	8,303	200	647	683	3,215	3,294	3,188	12,846	2,400	480	835	245	80	144	1,624	1,465	8,604	8,738	8,683	9.8%	10.7%	11.0%
17-May-08	7,450	200	660	632	3,130	3,273	3,183	12,080	2,450	687	840	245	0	92	1,675	1,468	7,764	8,587	8,600	12.7%	11.1%	11.3%
18-May-08	7,632	200	723	673	3,180	3,221	3,177	11,728	2,480	680	843	245	80	88	1,626	1,465	7,482	8,403	8,637	12.8%	11.8%	11.4%
19-May-08	7,688	200	778	661	3,068	3,178	3,176	12,365	2,600	665	847	245	100	83	1,771	1,538	8,084	8,304	8,613	11.7%	12.3%	11.8%
20-May-08	7,688	200	852	602	3,147	3,136	3,168	12,488	2,650	522	846	245	93	90	1,610	1,481	8,349	8,303	8,600	10.3%	11.8%	11.1%
21-May-08	7,682	200	885	567	3,048	3,080	3,163	12,370	2,680	673	847	221	97	95	1,840	1,544	7,080	8,172	8,471	13.1%	11.7%	11.9%
22-May-08	9,917	200	888	527	2,644	2,986	3,128	13,976	2,680	685	847	210	102	97	1,747	1,544	8,620	8,270	8,523	10.3%	11.2%	11.4%
23-May-08	10,560	200	880	580	2,632	2,880	3,097	14,761	2,680	1,405	876	214	142	107	2,680	1,911	8,481	8,301	8,504	15.8%	13.1%	14.0%
24-May-08	10,124	200	841	482	2,343	2,782	3,063	13,980	2,700	1,485	1,082	205	76	98	2,775	2,187	8,425	8,458	8,600	17.8%	14.8%	16.2%
25-May-08	11,367	200	827	480	1,832	2,532	2,986	14,715	2,750	1,882	1,045	185	76	87	2,384	2,375	8,881	8,771	8,602	13.6%	15.8%	17.0%
26-May-08	10,712	200	786	510	1,870	2,354	2,964	14,080	2,780	1,480	1,040	180	76	80	2,742	2,401	8,087	8,843	8,602	17.5%	16.3%	17.7%
27-May-08	9,781	200	730	480	1,800	2,178	2,911	13,070	2,800	1,030	1,044	201	0	80	2,363	2,346	7,916	8,786	8,677	15.8%	15.7%	16.7%
28-May-08	8,818	200	704	580	1,805	2,012	2,883	13,127	2,880	1,175	1,045	202	123	86	2,386	2,383	7,911	8,080	8,653	16.8%	16.8%	16.8%
29-May-08	9,880	200	706	472	1,806	1,881	2,828	12,864	2,880	1,186	1,040	201	76	80	2,442	2,177	7,012	8,012	8,620	16.8%	16.2%	16.8%
30-May-08	10,388	200	750	483	1,780	1,788	2,780	13,547	2,950	1,480	1,047	210	74	131	2,821	2,331	7,776	8,271	8,486	18.2%	17.8%	16.8%
31-May-08	10,742	200	784	480	1,682	1,748	2,750	13,887	3,080	1,180	1,043	224	80	112	2,528	2,338	8,389	8,282	8,481	18.8%	18.0%	17.8%
Total	268,825	6,340	22,385	18,087	86,688	89,450	94,785	400,326	75,450	26,793	27,886	6,585	2,178	2,893	61,646	53,534	263,220	267,163	267,814	401.8%	387.2%	387.4%
Average	8,810	201	722	584	2,796	2,886	3,058	12,914	2,434	864	880	212	70	93	1,980	1,727	8,491	8,618		13.0%	12.8%	12.8%

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: Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River@Vernalis -prev day-	S. Joaquin River@Vernalis 7-day Average	S. Joaquin River@Vernalis Monthly Average	Total Delta Inflow	NDCU	DELTA EXPORTS: Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron Bethany (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	OUTFLOW INDEX: NDOI daily	7-day Avg	Monthly Avg	Export/Inflow: Daily (%)	3 Day (%)	14 Day (%)
1-Jun-08	10,754	200	797	406	1,583	1,584	1,586	13,839	2,850	987	1,064	308	80	92	2,450	2,275	8,330	8,072	8,330	14.4%	16.1%	16.4%
2-Jun-08	11,333	200	802	404	1,605	1,637	1,604	14,334	3,100	986	1,042	376	112	86	2,377	2,106	8,857	8,109	8,594	13.4%	14.9%	14.9%
3-Jun-08	11,230	200	880	372	1,502	1,591	1,473	14,194	3,150	988	1,048	375	76	92	2,425	2,035	8,628	8,100	8,572	13.9%	13.9%	14.2%
4-Jun-08	10,447	200	786	330	1,412	1,526	1,436	13,225	3,200	778	970	373	76	98	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	3,250	797	858	384	78	98	2,008	1,816	8,053	8,254	8,329	11.8%	12.8%	12.8%
6-Jun-08	10,517	200	876	296	1,318	1,411	1,383	13,100	3,300	780	858	389	17	114	2,144	1,886	7,785	8,251	8,232	12.3%	12.3%	11.9%
7-Jun-08	10,580	200	850	291	1,236	1,360	1,350	13,137	3,350	794	851	380	35	114	2,113	1,840	7,874	8,153	8,153	12.2%	12.1%	11.8%
8-Jun-08	10,346	200	818	300	1,182	1,307	1,331	12,836	3,400	900	853	401	45	110	2,300	1,711	7,117	7,979	8,022	14.8%	12.9%	12.9%
9-Jun-08	9,239	200	778	300	1,204	1,263	1,316	11,736	3,450	986	851	382	143	110	1,786	1,841	6,484	7,840	7,852	11.8%	12.5%	11.8%
10-Jun-08	8,554	200	773	291	1,195	1,234	1,280	11,013	3,500	197	425	332	80	114	1,000	1,300	6,404	7,351	7,717	6.1%	10.3%	9.3%
11-Jun-08	9,810	200	790	302	1,140	1,193	1,281	12,042	3,650	197	427	253	78	124	823	894	7,089	7,308	7,704	4.9%	6.9%	6.1%
12-Jun-08	9,880	200	775	325	1,107	1,180	1,303	12,307	3,600	183	423	242	80	134	902	820	7,805	7,286	7,730	4.2%	4.6%	4.2%
13-Jun-08	10,436	200	794	346	1,060	1,153	1,259	13,036	3,650	306	864	315	86	124	1,805	831	7,083	7,201	7,710	9.1%	6.6%	6.7%
14-Jun-08	10,405	200	801	341	1,210	1,102	1,271	12,960	3,700	300	850	412	76	124	1,716	1,042	7,344	7,242	7,697	9.1%	7.9%	7.4%
15-Jun-08	10,910	200	810	326	1,420	1,225	1,282	13,260	3,750	300	857	420	76	120	1,716	1,252	7,820	7,343	7,706	8.8%	9.0%	9.1%
16-Jun-08	11,103	200	812	318	1,436	1,286	1,284	13,871	3,800	988	857	444	100	118	2,300	1,449	7,765	7,528	7,700	12.8%	10.2%	10.8%
17-Jun-08	10,829	200	832	277	1,478	1,284	1,297	13,616	3,850	882	856	384	87	120	2,205	1,647	7,471	7,894	7,805	13.1%	11.8%	12.2%
18-Jun-08	11,013	200	834	251	1,339	1,342	1,305	13,637	3,900	887	883	406	87	118	2,304	1,847	7,432	7,644	7,891	13.1%	12.9%	13.0%
19-Jun-08	11,890	200	846	215	1,440	1,323	1,305	13,791	3,950	798	926	412	94	119	2,163	1,806	7,878	7,613	7,681	11.8%	12.7%	13.4%
20-Jun-08	11,415	200	818	231	926	1,278	1,365	13,800	4,000	795	1,016	421	93	120	2,271	1,786	7,309	7,578	7,662	12.7%	12.8%	13.3%
21-Jun-08	12,165	200	826	290	897	1,180	1,347	14,378	4,050	788	1,019	430	76	123	2,294	1,782	8,034	7,646	7,680	12.8%	12.2%	13.0%
22-Jun-08	12,586	200	840	311	877	1,122	1,331	14,794	4,100	980	1,084	430	80	158	2,548	1,875	8,140	7,682	7,701	13.2%	12.6%	13.7%
23-Jun-08	12,343	200	840	294	884	1,041	1,217	14,571	4,100	1,196	1,018	438	41	154	2,788	2,000	7,703	7,683	7,701	14.9%	13.4%	14.0%
24-Jun-08	12,582	200	830	258	914	984	1,208	14,773	4,150	1,185	1,401	440	95	125	3,105	2,209	7,438	7,679	7,680	17.7%	15.3%	16.0%
25-Jun-08	12,551	200	842	253	938	912	1,195	14,784	4,200	1,104	1,014	448	61	122	2,707	2,363	7,877	7,742	7,680	14.8%	15.7%	16.7%
26-Jun-08	12,120	200	860	286	930	923	1,187	14,485	4,200	986	1,013	446	68	125	2,514	2,295	7,691	7,744	7,680	13.8%	15.2%	16.0%
27-Jun-08	11,925	200	837	320	980	941	1,181	14,201	4,250	987	1,020	433	86	123	2,497	2,072	7,534	7,775	7,682	13.8%	13.8%	14.3%
28-Jun-08	11,630	200	812	320	1,026	986	1,174	13,807	4,250	874	1,021	423	90	120	2,408	2,005	7,250	7,684	7,678	13.9%	13.7%	13.8%
29-Jun-08	12,118	200	792	321	980	971	1,169	14,411	4,300	1,019	1,020	406	50	123	2,518	2,014	7,593	7,685	7,673	13.8%	13.8%	13.8%
30-Jun-08	12,589	200	795	286	1,003	988	1,164	14,843	4,300	1,109	1,535	411	117	114	3,132	2,253	7,611	7,643	7,665	17.8%	15.1%	15.3%
Total	332,790	6,000	24,482	9,373	35,462	36,925	38,779	400,026	112,400	24,538	27,925	11,838	2,153	3,541	65,000	52,311	228,836	231,410	236,037	364.6%	365.4%	372.4%
Average	11,080	200	816	312	1,182	1,231	1,293	13,801	3,747	818	931	395	72	118	2,180	1,744	7,065	7,714		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: Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River@Vernalis -prev day-	7-day Average	Monthly Average	Total Delta Inflow	NDCU
1-Jul-07	18,582	209	658	313	1,224	1,209	1,209	20,986	4,300
2-Jul-07	19,165	209	659	333	1,295	1,257	1,259	21,652	4,300
3-Jul-07	19,933	209	657	325	1,207	1,243	1,191	22,420	4,300
4-Jul-07	20,001	206	652	295	987	1,180	1,133	22,143	4,350
5-Jul-07	19,563	207	652	312	960	1,143	1,103	21,664	4,400
6-Jul-07	18,367	207	652	324	963	1,104	1,084	20,533	4,400
7-Jul-07	17,766	206	649	325	980	1,062	1,062	19,875	4,400
8-Jul-07	17,519	206	635	344	929	1,013	1,048	19,833	4,400
9-Jul-07	17,816	206	621	332	948	977	1,047	19,723	4,400
10-Jul-07	17,300	206	613	313	1,045	960	1,036	19,477	4,400
11-Jul-07	17,868	206	604	301	929	974	1,032	19,926	4,400
12-Jul-07	18,130	206	609	304	982	979	1,030	20,349	4,400
13-Jul-07	19,317	206	595	306	1,013	961	1,029	21,437	4,400
14-Jul-07	19,730	206	578	302	1,011	989	1,030	21,836	4,400
15-Jul-07	19,416	206	555	319	1,053	1,016	1,033	21,851	4,400
16-Jul-07	19,763	206	541	342	1,069	1,024	1,037	21,921	4,400
17-Jul-07	19,535	206	539	330	1,102	1,036	1,035	21,712	4,400
18-Jul-07	19,905	206	529	296	987	1,027	1,030	21,923	4,400
19-Jul-07	19,706	206	556	275	946	1,026	1,028	21,691	4,400
20-Jul-07	19,763	206	521	279	986	1,017	1,024	21,757	4,350
21-Jul-07	19,960	206	519	292	963	1,001	1,020	21,940	4,350
22-Jul-07	20,370	206	525	314	941	995	1,021	22,356	4,350
23-Jul-07	20,302	206	528	327	1,030	984	1,022	22,303	4,350
24-Jul-07	19,958	206	548	311	1,036	1,006	1,027	22,059	4,350
25-Jul-07	19,380	206	536	296	1,140	1,034	1,031	21,486	4,300
26-Jul-07	18,887	206	536	291	1,140	1,050	1,034	21,069	4,300
27-Jul-07	18,652	206	536	287	1,100	1,061	1,034	20,781	4,300
28-Jul-07	18,490	206	532	288	1,040	1,072	1,033	20,556	4,250
29-Jul-07	18,430	206	528	288	1,019	1,076	1,035	20,471	4,250
30-Jul-07	18,449	206	526	276	1,071	1,065	1,036	20,526	4,250
31-Jul-07	18,049	206	543	268	1,062	1,065	1,036	20,143	4,200
Total	580,044	6,398	17,930	9,487	32,312	32,795	32,919	656,171	134,806
Average	18,034	206	578	306	1,042	1,058	1,062	21,167	4,352

Date	DELTA EXPORTS: Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron Bethany (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	OUTFLOW INDEX: NDOI daily	7-day Avg	Monthly Avg	Export/Inflow: Daily (%)	3 Day (%)	14 Day (%)
1-Jul-07	6,608	3,936	410	76	136	11,072	7,809	5,604	7,349	6,604	50.2%	38.3%	41.1%
2-Jul-07	6,382	4,452	426	110	130	11,201	8,852	6,977	7,196	5,827	49.9%	42.9%	50.5%
3-Jul-07	5,330	4,442	428	82	135	10,201	10,402	7,800	7,301	6,406	43.3%	47.8%	57.3%
4-Jul-07	5,803	4,305	431	86	135	10,438	10,187	7,335	7,390	6,700	44.7%	45.8%	54.8%
5-Jul-07	5,811	4,440	430	66	134	10,535	9,837	6,740	7,205	6,708	48.1%	44.8%	52.4%
6-Jul-07	5,830	4,360	396	75	132	10,631	10,072	5,802	6,886	6,507	49.3%	46.0%	52.4%
7-Jul-07	5,025	4,346	403	71	127	9,831	9,870	5,045	6,304	6,304	46.0%	47.3%	50.8%
8-Jul-07	5,780	4,344	425	60	121	10,610	9,804	4,023	6,209	6,201	50.9%	48.9%	50.2%
9-Jul-07	5,900	4,354	442	10	117	10,803	9,947	4,430	6,065	6,004	52.4%	49.9%	50.6%
10-Jul-07	5,980	4,406	436	84	128	10,877	10,204	4,200	5,830	5,836	53.0%	51.8%	51.3%
11-Jul-07	6,661	4,385	434	59	129	11,540	10,595	3,979	5,400	5,668	56.1%	53.8%	52.2%
12-Jul-07	6,458	4,306	416	79	134	11,393	10,701	4,846	4,740	5,604	53.2%	53.7%	52.4%
13-Jul-07	5,946	4,301	412	0	126	10,674	10,741	6,163	4,841	5,619	48.2%	52.1%	51.7%
14-Jul-07	6,927	4,365	407	50	130	11,779	10,823	5,687	4,843	5,613	51.9%	50.9%	51.7%
15-Jul-07	7,158	4,354	419	56	132	12,012	11,047	5,130	4,873	5,582	53.2%	51.8%	52.7%
16-Jul-07	7,147	4,363	422	197	132	11,957	11,435	5,604	5,080	5,567	51.0%	52.1%	54.2%
17-Jul-07	7,163	4,376	431	79	128	12,018	11,617	5,203	5,305	5,509	52.8%	52.5%	54.7%
18-Jul-07	7,167	4,382	427	80	121	12,017	11,529	5,506	5,424	5,506	52.7%	52.2%	54.7%
19-Jul-07	6,960	4,367	432	54	112	11,816	11,472	5,475	5,557	5,501	52.0%	52.4%	54.7%
20-Jul-07	7,176	4,363	414	53	126	12,029	11,472	5,376	5,465	5,552	52.8%	52.4%	54.5%
21-Jul-07	6,274	4,301	230	50	131	10,984	11,176	6,006	5,609	5,602	46.4%	51.0%	52.9%
22-Jul-07	7,160	4,379	207	50	131	11,827	11,340	6,179	5,729	5,638	51.4%	50.9%	52.7%
23-Jul-07	7,175	4,385	241	114	126	11,814	11,255	6,229	5,910	5,605	51.1%	50.3%	52.2%
24-Jul-07	7,170	4,410	234	56	126	11,986	11,552	5,813	5,904	5,601	52.3%	51.6%	53.1%
25-Jul-07	6,864	4,458	230	58	125	11,340	11,367	5,820	5,820	5,687	51.2%	51.5%	52.1%
26-Jul-07	7,004	4,443	223	60	126	11,816	11,306	4,944	5,853	5,640	54.4%	52.6%	52.8%
27-Jul-07	7,177	4,467	214	64	132	11,926	11,404	4,856	5,735	5,600	55.7%	53.8%	52.2%
28-Jul-07	7,125	4,427	218	60	128	11,836	11,574	4,470	5,430	5,559	56.9%	55.4%	53.2%
29-Jul-07	7,144	4,464	217	76	128	11,876	11,601	4,345	5,169	5,517	58.3%	56.6%	53.5%
30-Jul-07	7,186	4,434	220	52	126	11,933	11,583	4,345	4,969	5,470	58.4%	58.2%	53.7%
31-Jul-07	7,173	4,420	231	66	119	11,878	11,607	4,070	4,659	5,433	57.2%	58.0%	54.0%
Total	204,222	135,062	10,944	2,124	3,931	352,855	333,858	168,410	178,215	178,536	1596.9%	1570.3%	1625.7%
Average	6,588	4,363	353	69	127	11,382	10,770	5,433	5,761		51.6%	50.7%	52.4%

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: Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River@Vernalis -prev day-	S. Joaquin River@Vernalis 7-day Average	S. Joaquin River@Vernalis Monthly Average	Total Delta Inflow	NDCU
1-Aug-07	17,307	206	526	300	1,013	1,033	806	19,444	4,200
2-Aug-07	17,218	206	525	312	985	1,010	942	19,186	4,200
3-Aug-07	16,930	207	534	327	979	1,005	952	19,006	4,100
4-Aug-07	17,347	207	553	336	973	1,011	979	19,415	4,100
5-Aug-07	17,130	207	567	305	1,058	1,016	1,000	19,323	4,100
6-Aug-07	16,574	207	589	300	1,116	1,018	1,019	18,845	4,100
7-Aug-07	17,806	206	560	372	1,087	1,026	1,028	19,725	4,050
8-Aug-07	17,579	206	533	317	1,080	1,001	1,033	19,706	4,050
9-Aug-07	17,233	206	515	292	1,077	1,070	1,041	19,425	4,000
10-Aug-07	17,901	206	571	318	1,110	1,083	1,044	20,106	4,000
11-Aug-07	18,316	206	621	324	1,068	1,072	1,036	20,537	3,950
12-Aug-07	18,082	206	621	344	975	1,055	1,035	20,240	3,950
13-Aug-07	18,417	206	627	355	1,001	1,051	1,036	20,806	3,900
14-Aug-07	18,721	206	649	330	1,050	1,041	1,034	20,955	3,850
15-Aug-07	18,400	206	642	318	1,002	1,019	1,030	20,857	3,850
16-Aug-07	18,438	206	654	318	910	986	1,017	20,537	3,800
17-Aug-07	18,274	206	685	314	878	963	1,011	20,330	3,800
18-Aug-07	17,786	206	681	322	900	963	1,000	19,858	3,750
19-Aug-07	16,743	206	646	320	975	963	1,000	18,892	3,700
20-Aug-07	16,887	206	620	326	1,004	965	1,011	19,054	3,700
21-Aug-07	16,819	206	640	302	1,080	973	1,013	18,838	3,850
22-Aug-07	16,281	206	642	296	1,054	980	1,012	18,471	3,800
23-Aug-07	16,302	206	655	282	972	989	1,011	18,329	3,800
24-Aug-07	16,226	206	661	285	1,006	1,017	1,013	18,388	3,850
25-Aug-07	16,341	206	670	298	1,040	1,025	1,013	18,555	3,800
26-Aug-07	16,304	206	668	321	1,020	1,035	1,016	18,576	3,450
27-Aug-07	16,287	206	630	310	1,073	1,036	1,017	18,535	3,450
28-Aug-07	16,117	206	606	305	1,066	1,017	1,014	18,302	3,400
29-Aug-07	15,887	206	603	290	934	1,000	1,011	18,041	3,300
30-Aug-07	15,928	206	591	273	915	996	1,008	17,965	3,300
31-Aug-07	16,000	206	607	281	918	977	1,005	18,004	3,250
Total	531,649	6,440	18,781	9,864	31,250	31,474	31,305	587,884	117,380
Average	17,150	208	606	318	1,008	1,015	1,010	19,290	3,786

Date	DELTA EXPORTS: Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron Bethany (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	OUTFLOW INDEX: NDOI daily	7-day Avg	Monthly Avg	Export/Inflow: Daily (%)	3 Day (%)	14 Day (%)
1-Aug-07	7,144	4,413	230	42	119	11,805	11,800	3,378	4,301	3,378	59.3%	57.0%	54.4%
2-Aug-07	7,173	4,458	242	57	127	11,912	11,884	3,054	4,037	3,210	60.2%	59.5%	54.9%
3-Aug-07	7,184	4,480	230	53	127	11,934	11,884	2,821	3,708	3,110	60.9%	60.1%	56.8%
4-Aug-07	5,959	4,452	256	50	136	10,744	11,222	4,521	3,805	3,409	53.4%	58.1%	54.1%
5-Aug-07	7,187	4,458	215	50	125	11,915	11,220	3,306	3,657	3,437	59.9%	58.0%	54.7%
6-Aug-07	7,171	4,385	180	8	123	11,877	11,187	2,808	3,446	3,342	61.3%	60.2%	55.4%
7-Aug-07	7,178	4,372	204	50	123	11,837	11,877	3,848	3,414	3,414	58.3%	59.8%	57.7%
8-Aug-07	7,172	4,434	212	88	126	11,875	11,579	3,781	3,472	3,400	58.5%	59.4%	58.0%
9-Aug-07	7,171	4,461	203	89	124	11,900	11,596	3,525	3,530	3,407	59.8%	58.8%	58.4%
10-Aug-07	7,180	4,444	191	74	130	11,800	11,917	4,240	3,720	3,546	57.4%	58.5%	58.8%
11-Aug-07	6,573	4,430	175	76	126	11,229	11,416	5,358	3,800	3,710	53.2%	56.7%	57.8%
12-Aug-07	7,155	4,423	152	50	125	11,805	11,306	4,485	4,016	3,775	57.0%	55.8%	57.8%
13-Aug-07	7,184	4,373	130	65	125	11,726	11,373	4,982	4,318	3,888	56.7%	56.3%	57.4%
14-Aug-07	7,177	4,432	155	42	122	11,833	11,571	5,272	4,622	3,988	55.1%	55.9%	58.3%
15-Aug-07	7,187	4,441	155	32	122	11,672	11,580	4,836	4,687	4,032	56.1%	56.0%	58.2%
16-Aug-07	7,174	4,483	137	57	126	11,833	11,816	4,904	4,804	4,087	56.3%	56.8%	58.1%
17-Aug-07	7,175	4,443	132	81	127	11,785	11,824	4,744	4,954	4,128	56.7%	56.4%	57.7%
18-Aug-07	7,167	4,444	126	53	122	11,808	11,818	4,300	4,803	4,136	58.2%	57.1%	57.6%
19-Aug-07	7,176	4,439	123	58	123	11,780	11,508	3,400	4,640	4,087	61.1%	58.8%	57.6%
20-Aug-07	7,171	4,313	124	8	122	11,729	11,564	3,625	4,454	4,073	60.3%	59.8%	57.5%
21-Aug-07	7,168	4,391	114	12	123	11,784	11,547	3,004	4,216	4,081	60.7%	60.7%	57.8%
22-Aug-07	7,173	4,446	106	42	128	11,812	11,554	3,050	3,848	4,005	62.7%	61.2%	57.9%
23-Aug-07	7,168	4,430	94	53	129	11,767	11,592	2,862	3,871	3,980	63.0%	62.1%	58.3%
24-Aug-07	7,171	4,448	87	54	128	11,821	11,825	3,017	3,434	3,921	63.1%	62.9%	58.7%
25-Aug-07	5,906	4,382	67	60	125	10,540	11,215	4,606	3,483	3,944	55.7%	60.8%	57.0%
26-Aug-07	5,906	4,460	64	50	127	10,567	10,918	4,801	3,810	3,968	56.7%	58.2%	55.4%
27-Aug-07	5,582	4,301	64	8	123	10,080	10,326	4,905	3,815	4,008	53.3%	54.9%	52.8%
28-Aug-07	5,404	4,372	77	46	120	10,017	10,052	4,885	3,800	4,027	53.7%	54.2%	52.4%
29-Aug-07	5,400	4,417	76	27	126	10,082	9,986	4,600	4,219	4,057	54.8%	53.9%	52.1%
30-Aug-07	5,408	4,443	72	85	125	10,072	9,901	4,633	4,444	4,073	56.2%	54.9%	52.8%
31-Aug-07	5,406	4,204	74	62	133	10,005	9,909	4,719	4,687	4,004	54.8%	54.8%	53.1%
Total	208,731	137,050	4,555	1,494	3,871	353,723	348,489	125,917	125,821	117,836	1790.9%	1782.5%	1747.9%
Average	6,766	4,421	147	48	125	11,410	11,242	4,064	4,059		57.8%	57.5%	56.4%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office

Delta Outflow Computation (values in c.f.s.)

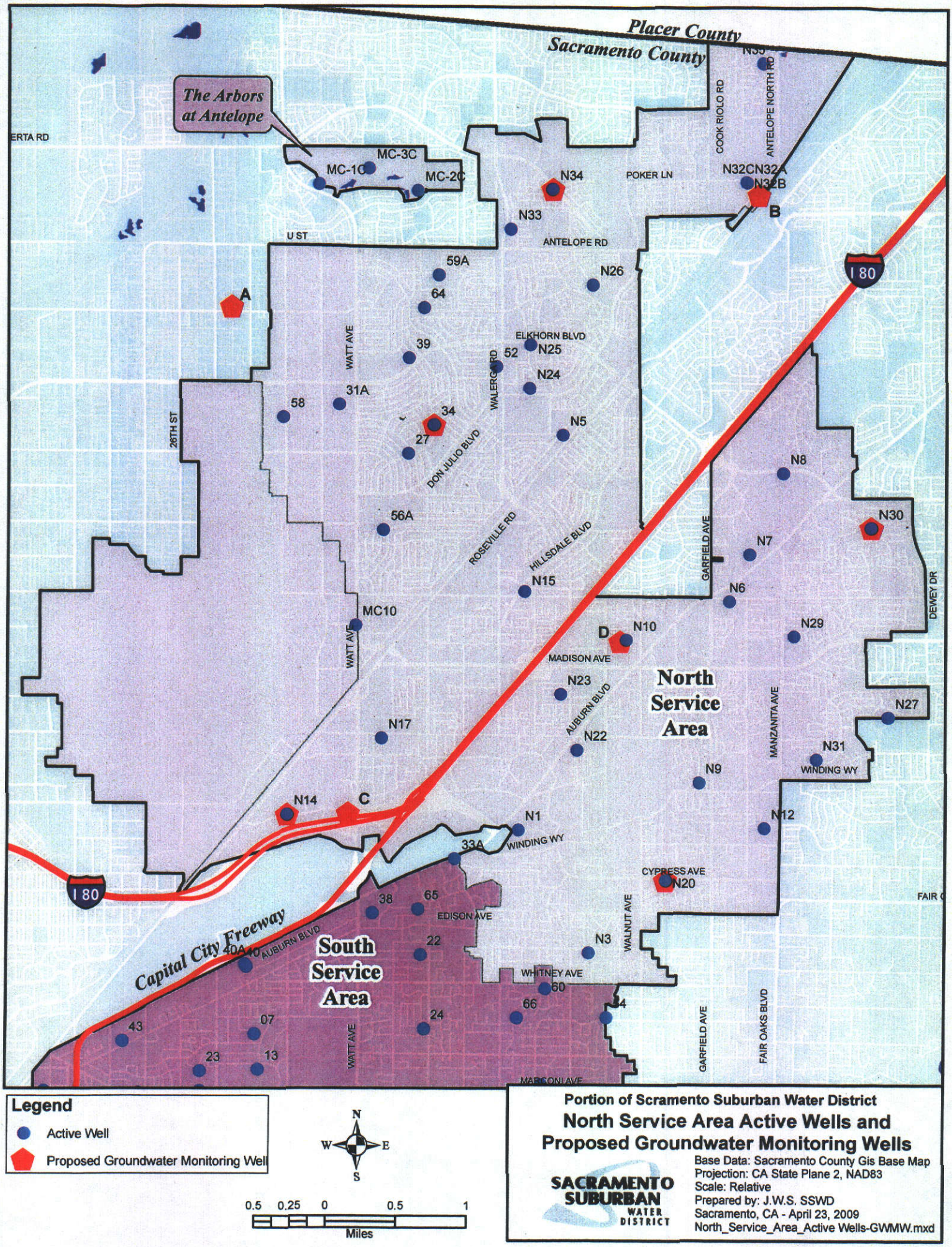
September 2007

Estimated numbers are in bold italic print

Date	DELTA INFLOW: Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River@Vernalis -prev day-	7-day Average	Monthly Average	Total Delta Inflow	NDCU
1-Sep-07	16,280	208	580	310	905	982	824	18,212	3,200
2-Sep-07	16,500	208	610	323	824	948	848	18,585	3,200
3-Sep-07	16,880	207	610	336	971	953	880	18,924	3,150
4-Sep-07	16,300	207	588	326	1,103	963	1,002	18,526	3,100
5-Sep-07	16,000	207	588	318	1,068	986	891	18,088	2,800
6-Sep-07	16,500	207	549	314	950	970	892	18,520	2,800
7-Sep-07	16,082	206	515	291	983	987	987	18,067	2,850
8-Sep-07	16,856	206	533	264	1,027	1,012	1,001	18,866	2,800
9-Sep-07	17,220	206	521	236	1,035	1,022	1,006	19,218	2,800
10-Sep-07	17,040	206	508	240	1,036	1,015	1,010	19,030	2,800
11-Sep-07	17,186	206	505	241	1,053	1,012	1,008	19,111	2,800
12-Sep-07	16,801	206	500	235	991	1,015	1,005	18,733	2,750
13-Sep-07	16,040	206	474	232	970	1,008	1,001	17,931	2,700
14-Sep-07	16,746	206	453	238	953	994	995	18,596	2,800
15-Sep-07	16,606	206	428	225	928	986	994	18,386	2,800
16-Sep-07	15,970	206	424	230	980	983	995	17,810	2,800
17-Sep-07	16,210	206	388	224	1,011	980	987	18,108	2,500
18-Sep-07	15,977	206	385	208	1,032	977	986	17,808	2,800
19-Sep-07	15,363	206	433	181	971	972	983	17,154	2,450
20-Sep-07	14,877	205	467	174	939	969	980	16,663	2,450
21-Sep-07	15,828	206	447	185	926	968	980	17,592	2,400
22-Sep-07	15,321	206	417	181	920	964	985	17,045	2,350
23-Sep-07	14,987	206	384	190	950	976	980	16,626	1,200
24-Sep-07	14,547	206	316	180	1,096	982	986	16,355	1,150
25-Sep-07	14,395	206	391	186	1,130	1,012	1,001	16,207	1,100
26-Sep-07	14,386	206	250	190	1,115	1,026	1,002	16,067	1,100
27-Sep-07	13,840	206	276	180	1,034	1,037	1,002	15,550	1,000
28-Sep-07	13,296	206	330	187	1,003	1,055	1,004	15,022	2,200
29-Sep-07	11,987	206	438	185	1,051	1,061	1,000	13,877	2,150
30-Sep-07	12,787	206	446	184	1,132	1,081	1,013	14,675	2,150
Total	468,242	6,188	13,627	7,051	30,138	29,918	29,829	526,246	73,345
Average	15,941	206	454	235	1,005	997	994	17,542	2,441

Date	DELTA EXPORTS: Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron Bethany (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT
1-Sep-07	5,800	4,373	90	59	130	10,522	10,051
2-Sep-07	5,900	4,370	83	80	128	10,520	10,207
3-Sep-07	5,900	4,367	83	80	128	10,514	10,361
4-Sep-07	5,906	4,365	70	36	130	10,616	10,359
5-Sep-07	5,901	4,380	64	34	130	10,501	10,350
6-Sep-07	5,985	4,405	60	85	127	10,622	10,362
7-Sep-07	5,909	4,388	62	50	127	10,513	10,389
8-Sep-07	5,900	4,361	63	39	129	10,483	10,372
9-Sep-07	5,800	4,406	76	30	125	10,667	10,374
10-Sep-07	5,903	4,318	71	50	126	10,458	10,363
11-Sep-07	5,901	4,407	66	35	124	10,553	10,380
12-Sep-07	4,902	4,362	63	15	116	9,508	10,016
13-Sep-07	4,902	4,356	63	53	116	9,477	9,690
14-Sep-07	4,900	4,328	63	27	113	9,476	9,340
15-Sep-07	4,903	4,363	59	25	115	9,504	9,344
16-Sep-07	4,905	4,328	60	30	114	9,456	9,332
17-Sep-07	4,408	4,085	55	62	117	8,601	9,053
18-Sep-07	4,484	4,157	56	23	118	8,782	8,815
19-Sep-07	4,480	4,342	56	45	120	8,963	8,855
20-Sep-07	4,406	4,280	57	25	106	8,933	8,756
21-Sep-07	4,405	4,356	62	3	104	9,014	8,826
22-Sep-07	5,400	4,271	76	15	105	9,827	9,136
23-Sep-07	5,004	4,287	79	25	108	9,470	9,311
24-Sep-07	4,404	4,294	96	6	99	8,963	9,280
25-Sep-07	5,400	4,325	95	15	101	10,005	9,311
26-Sep-07	5,403	4,340	123	13	83	10,036	9,482
27-Sep-07	5,975	4,358	147	12	107	10,577	9,807
28-Sep-07	5,403	4,318	195	22	114	10,056	9,882
29-Sep-07	3,988	4,300	154	30	147	8,540	9,471
30-Sep-07	5,400	4,363	140	0	98	10,040	9,280
Total	160,231	129,860	2,442	932	3,506	295,053	290,854
Average	5,341	4,327	81	31	117	9,835	9,695

Date	OUTFLOW INDEX: NDOI daily	7-day Avg	Monthly Avg	Export/Inflow: Daily (%)	3 Day (%)	14 Day (%)
1-Sep-07	4,400	4,686	4,400	56.8%	55.9%	54.2%
2-Sep-07	4,836	4,734	4,603	55.8%	55.8%	55.1%
3-Sep-07	5,260	4,762	4,802	54.4%	55.5%	55.8%
4-Sep-07	4,800	4,765	4,874	56.7%	55.2%	56.1%
5-Sep-07	4,640	4,756	4,808	56.8%	55.7%	56.2%
6-Sep-07	4,887	4,833	4,840	55.8%	56.1%	56.2%
7-Sep-07	5,405	4,921	4,921	54.7%	55.8%	56.1%
8-Sep-07	5,483	5,064	4,982	54.9%	55.0%	56.0%
9-Sep-07	5,761	5,196	5,077	53.9%	54.4%	55.9%
10-Sep-07	5,722	5,282	5,142	53.9%	54.1%	55.7%
11-Sep-07	5,753	5,383	5,196	54.2%	54.0%	55.6%
12-Sep-07	6,475	5,630	5,304	48.8%	52.7%	53.8%
13-Sep-07	5,754	5,767	5,339	51.8%	52.0%	51.9%
14-Sep-07	6,479	5,919	5,420	50.8%	50.5%	49.9%
15-Sep-07	6,202	6,033	5,478	50.7%	50.8%	49.8%
16-Sep-07	5,763	6,033	5,496	52.1%	50.9%	50.0%
17-Sep-07	7,015	6,210	5,595	46.6%	48.7%	48.6%
18-Sep-07	6,516	6,327	5,637	48.4%	48.9%	47.4%
19-Sep-07	5,741	6,222	5,642	51.2%	48.8%	46.7%
20-Sep-07	5,200	6,164	5,634	52.8%	50.7%	47.6%
21-Sep-07	6,170	6,112	5,651	50.3%	51.4%	48.3%
22-Sep-07	4,768	5,886	5,610	57.2%	53.3%	50.4%
23-Sep-07	5,841	5,930	5,625	55.9%	54.4%	51.8%
24-Sep-07	6,213	5,805	5,640	53.7%	55.6%	52.4%
25-Sep-07	5,003	5,602	5,627	60.5%	56.7%	53.1%
26-Sep-07	4,922	5,485	5,600	61.1%	58.4%	54.7%
27-Sep-07	3,630	5,201	5,538	66.4%	62.6%	56.2%
28-Sep-07	2,764	4,883	5,438	65.2%	64.2%	56.1%
29-Sep-07	3,178	4,676	5,367	60.4%	63.9%	57.1%
30-Sep-07	2,485	4,002	5,266	66.7%	63.8%	58.9%
Total	157,940	162,344	158,787	1658.8%	1646.2%	1600.6%
Average	5,265	5,408		55.2%	54.9%	53.4%



Legend

- Active Well
- Proposed Groundwater Monitoring Well

N
W E
S

0.5 0.25 0 0.5 1
Miles

Portion of Scramento Suburban Water District

North Service Area Active Wells and Proposed Groundwater Monitoring Wells

SACRAMENTO SUBURBAN WATER DISTRICT

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-GWMW.mxd

Attachment 9
Well Identification Numbers

Well #	[illegible] (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

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office

Delta Outflow Computation (values in c.f.s.)

October 2007

Estimated numbers are in bold italic print

Date	DELTA INFLOW: Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River@Vernalis -prev day-	7-day Average	Monthly Average	Total Delta Inflow	NDCU	DELTA EXPORTS: Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron Bethany (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	OUTFLOW INDEX: NDOI daily	7-day Avg	Monthly Avg	Export/Inflow: Daily (%)	3 Day (%)	14 Day (%)
1-Oct-07	12,207	206	303	190	1,108	1,107	1,340	14,182	2,180	4,407	4,332	148	0	76	9,042	8,950	2,800	3,070	2,880	62.3%	62.0%	55.0%
2-Oct-07	12,176	205	345	810	1,248	1,116	1,272	14,784	2,180	4,404	4,331	147	18	84	8,800	9,148	3,675	3,475	3,318	58.0%	62.0%	57.7%
3-Oct-07	12,011	204	300	483	1,175	1,130	1,187	14,173	2,050	3,905	4,323	104	16	66	8,472	8,654	3,651	3,233	3,430	58.8%	60.1%	55.2%
4-Oct-07	11,794	203	278	328	1,138	1,146	1,160	13,730	2,050	3,400	4,274	147	7	79	7,891	8,395	3,000	3,282	3,400	56.5%	58.3%	53.0%
5-Oct-07	11,783	202	288	316	1,113	1,140	1,142	13,887	2,000	3,408	4,363	131	24	84	7,881	7,950	3,728	3,339	3,542	56.8%	57.2%	52.4%
6-Oct-07	12,385	201	363	282	1,073	1,140	1,146	14,216	2,000	2,881	4,357	112	0	95	7,586	7,627	4,080	3,551	3,728	51.7%	54.8%	51.8%
7-Oct-07	11,917	200	305	288	1,131	1,185	1,185	13,842	1,860	2,986	4,346	111	15	75	7,513	7,404	4,379	3,821	3,821	52.9%	53.7%	50.7%
8-Oct-07	11,575	199	313	288	1,309	1,190	1,182	13,584	1,860	2,985	4,270	112	50	68	7,385	7,319	4,208	4,000	3,870	53.2%	52.8%	50.2%
9-Oct-07	11,464	199	314	250	1,209	1,145	1,166	13,438	1,860	2,902	4,276	111	0	60	7,438	7,282	4,067	4,063	3,880	54.1%	53.4%	50.7%
10-Oct-07	10,750	199	306	259	1,143	1,138	1,154	12,849	1,860	2,990	4,257	111	12	58	7,404	7,300	3,344	4,000	3,835	57.2%	54.8%	51.4%
11-Oct-07	11,840	199	286	270	1,087	1,130	1,150	13,392	302	3,406	4,250	113	8	58	7,821	7,434	5,959	4,219	3,880	57.8%	56.4%	53.2%
12-Oct-07	11,820	199	225	253	1,112	1,140	1,140	13,418	302	3,406	4,236	111	6	47	7,808	7,573	5,367	4,430	4,084	57.8%	57.8%	54.7%
13-Oct-07	10,780	199	196	284	1,145	1,182	1,168	12,854	-1,790	3,409	4,181	112	5	43	7,820	7,714	6,485	4,607	4,230	61.1%	58.7%	56.1%
14-Oct-07	10,632	199	147	265	1,386	1,211	1,183	12,889	-1,801	3,407	4,202	111	0	53	7,873	7,895	6,827	5,004	4,413	61.1%	60.0%	56.6%
15-Oct-07	10,915	199	112	285	1,412	1,236	1,197	12,403	-1,807	3,408	4,290	103	4	80	7,867	7,719	6,337	6,306	4,540	62.3%	61.5%	57.3%
16-Oct-07	9,860	199	102	252	1,409	1,268	1,207	11,633	-304	2,986	4,222	96	7	65	7,371	7,560	4,606	6,306	4,540	59.9%	61.5%	57.1%
17-Oct-07	9,850	199	86	248	1,357	1,308	1,218	11,746	-432	2,987	4,226	83	5	83	7,382	7,406	4,820	6,007	4,006	61.3%	61.5%	58.0%
18-Oct-07	10,330	199	20	250	1,364	1,378	1,238	12,183	1,872	3,409	4,212	82	8	64	7,840	7,377	2,771	5,264	4,006	63.2%	61.8%	58.5%
19-Oct-07	10,600	199	20	253	1,800	1,481	1,264	12,800	1,872	3,482	4,251	93	6	60	7,800	7,552	3,197	4,972	4,300	61.1%	61.8%	58.8%
20-Oct-07	10,175	199	0	263	1,728	1,510	1,288	12,363	1,872	2,987	4,247	93	0	72	7,300	7,580	3,393	4,530	4,349	58.5%	60.9%	58.2%
21-Oct-07	10,306	199	0	275	1,703	1,550	1,305	12,483	1,872	2,981	4,226	91	0	54	7,364	7,389	3,847	4,184	4,310	57.8%	59.2%	58.4%
22-Oct-07	10,068	199	0	277	1,868	1,801	1,323	12,232	1,800	2,900	4,200	104	0	73	7,376	7,217	3,856	3,637	4,253	59.9%	58.4%	57.4%
23-Oct-07	10,372	199	0	271	1,880	1,838	1,338	12,532	1,760	2,408	4,229	112	24	82	6,886	7,046	3,894	3,627	4,227	53.4%	58.7%	56.3%
24-Oct-07	10,401	199	0	259	1,883	1,885	1,354	12,542	1,760	2,468	4,279	126	10	91	6,984	6,806	3,806	3,381	4,219	54.8%	56.4%	55.1%
25-Oct-07	9,840	199	0	251	1,716	1,720	1,373	12,106	1,760	2,405	4,241	135	14	98	6,855	6,743	3,401	3,471	4,187	55.8%	54.3%	54.2%
26-Oct-07	9,807	199	0	289	1,834	1,782	1,385	11,808	1,760	2,405	4,253	121	0	103	6,865	6,754	3,184	3,409	4,149	58.9%	55.4%	54.8%
27-Oct-07	9,414	199	0	285	1,931	1,821	1,425	11,840	1,760	1,902	4,282	101	0	103	6,388	6,580	3,797	3,513	4,137	52.3%	54.8%	53.9%
28-Oct-07	9,385	199	0	284	2,186	1,900	1,456	12,054	1,750	1,984	4,202	114	0	95	6,405	6,379	3,800	3,583	4,123	51.4%	53.4%	52.2%
29-Oct-07	9,863	199	0	290	2,302	1,907	1,485	12,744	1,760	2,407	4,253	91	17	108	6,828	6,380	4,134	3,718	4,123	52.8%	52.2%	52.1%
30-Oct-07	8,851	199	0	283	2,304	2,083	1,572	11,737	1,760	2,408	4,257	106	13	106	6,864	6,567	3,083	3,600	4,008	57.4%	53.0%	53.6%
31-Oct-07	9,784	199	4	273	2,290	2,172	1,630	12,854	1,760	2,801	4,260	115	7	98	7,380	6,809	3,456	3,650	4,006	57.2%	56.0%	56.1%
Total	332,164	6,197	4,294	8,840	46,530	44,140	38,306	388,215	38,402	96,206	131,801	3,438	282	2,360	233,703	230,426	126,117	125,201	125,331	1774.9%	1781.6%	1690.8%
Average	10,715	200	138	282	1,501	1,424	1,288	12,846	1,239	3,106	4,255	111	9	76	7,539	7,433	4,069	4,038		57.3%	57.5%	54.6%

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 1000 ACRE-FEET IN LAKE	CHANGE	COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S. POWER	RIVER SPILL	OUTLET	PUMPING PLANT	EVAPORATION C.F.S.	EVAPORATION INCHES	PRECIP 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	424.62	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	283	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	264	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			+60.5	91,120	40,531	0	0	8,037	2,086	7.13	.23
ACRE-FEET			+60,500	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)

POWER	80,393	OUTLET	0
SPILL	0	TOTAL	96,334
PUMPING PLANT	15,941		

PRECIPITATION

THIS MONTH = .23

JULY 1, 2007 TO DATE = 14.69

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 1000 ACRE-FEET IN LAKE	STORAGE CHANGE	COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S. POWER	RIVER SPILL	OUTLET	PUMPING PLANT	EVAPORATION C.F.S.	EVAPORATION INCHES	PRECIP 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	269	77	.26	.00
4	429.55	609.6	-1.8	1,552	2,103	0	0	269	77	.26	.00
5	429.40	608.3	-1.3	1,768	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	88	.31	.00
17	422.45	548.3	-6.9	1,153	4,262	0	0	287	79	.28	.00
18	421.56	541.0	-7.3	918	4,193	0	0	304	81	.29	.00
19	420.72	533.9	-7.1	1,282	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	296	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	1,176	3,168	0	0	286	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	8.56	.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)

POWER	203,866	OUTLET	0
SPILL	0	TOTAL	221,047
PUMPING PLANT	17,181		

PRECIPITATION

THIS MONTH =	.00
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 1000 ACRE-FEET IN LAKE	CHANGE	COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S. POWER	RIVER SPILL	OUTLET	PUMPING PLANT	EVAPORATION C.F.S.	EVAPORATION INCHES	PRECIP 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	894	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	431.16	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	429.16	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	282	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	1,899	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	423.26	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	269	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	1,648	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	1,468	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	282	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	116,857	0	0	8,637	2,282	8.00	.00
ACRE-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)

POWER	231,389	OUTLET	0
SPILL	0	TOTAL	248,520
PUMPING PLANT	17,131		

PRECIPITATION

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

AUGUST 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: October 17, 2007

DAY	ELEV	STORAGE 1000 ACRE-FEET IN LAKE	CHANGE	COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S. POWER	RIVER SPILL	OUTLET	PUMPING PLANT	EVAPORATION C.F.S.	EVAPORATION INCHES	PRECIP INCHES
		489.5									
1	414.58	484.7	-4.8	1,370	3,439	0	0	290	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	1,078	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	76	.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	88,614	0	89	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)

POWER	174,576	OUTLET	177
SPILL	0	TOTAL	191,184
PUMPING PLANT	16,431		

PRECIPITATION

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 1000 ACRE-FEET IN LAKE	STORAGE 1000 ACRE-FEET CHANGE	COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S. POWER	RIVER SPILL	OUTLET	PUMPING PLANT	EVAPORATION C.F.S.	EVAPORATION INCHES	PRECIP 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	964	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	1,266	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	1,586	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	331.8	-0.6	1,173	1,263	0	0	189	29	.14	.00
23	392.35	330.7	-1.0	1,034	1,356	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	196	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	391.66	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)

POWER	102,958	OUTLET	0
SPILL	0	TOTAL	116,571
PUMPING PLANT	13,613		

PRECIPITATION

THIS MONTH =	.07
JULY 1, 2007 TO DATE =	.07

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 1000 ACRE-FEET IN LAKE	CHANGE	COMPUTED* INFLOW C.F.S.	RELEASE - C.F.S. POWER	RIVER SPILL	OUTLET	PUMPING PLANT	EVAPORATION C.F.S.	EVAPORATION INCHES	PRECIP INCHES
		323.0									
1	390.97	322.4	-0.7	1,169	1,278	0	0	192	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	1,291	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	1,364	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	385.56	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	-0.9	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)

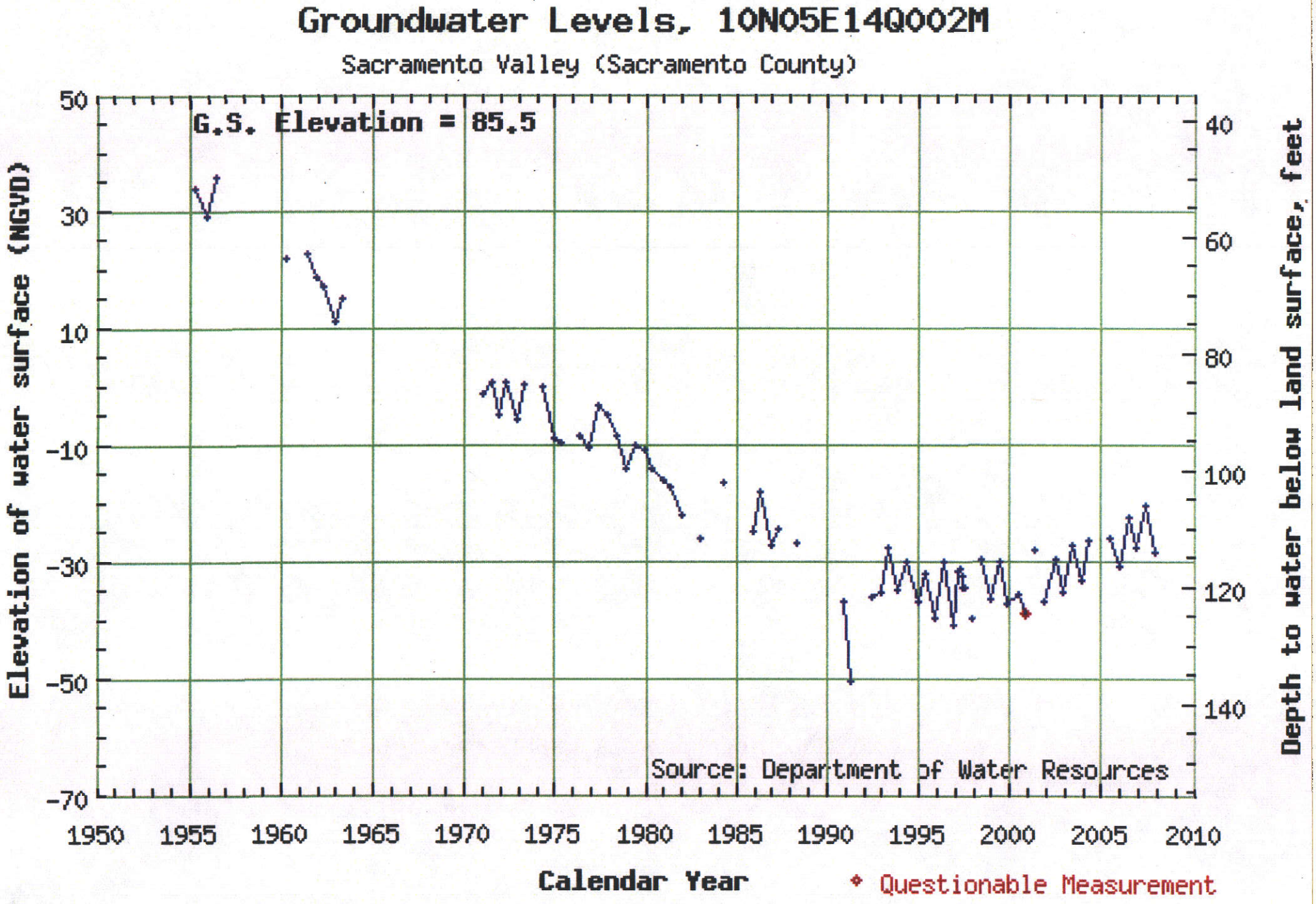
POWER	81,728	OUTLET	0
SPILL	0	TOTAL	91,473
PUMPING PLANT	9,745		

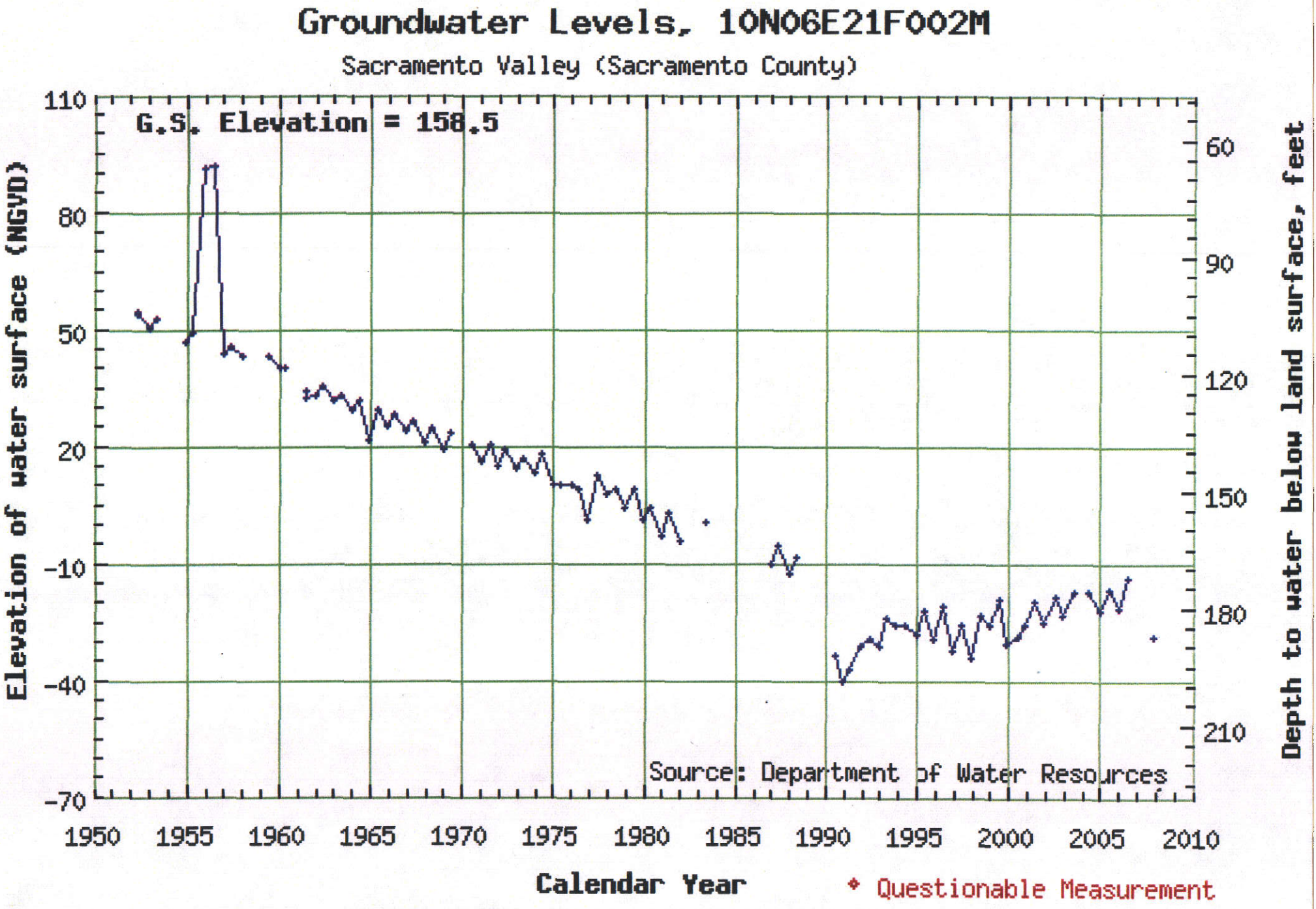
PRECIPITATION

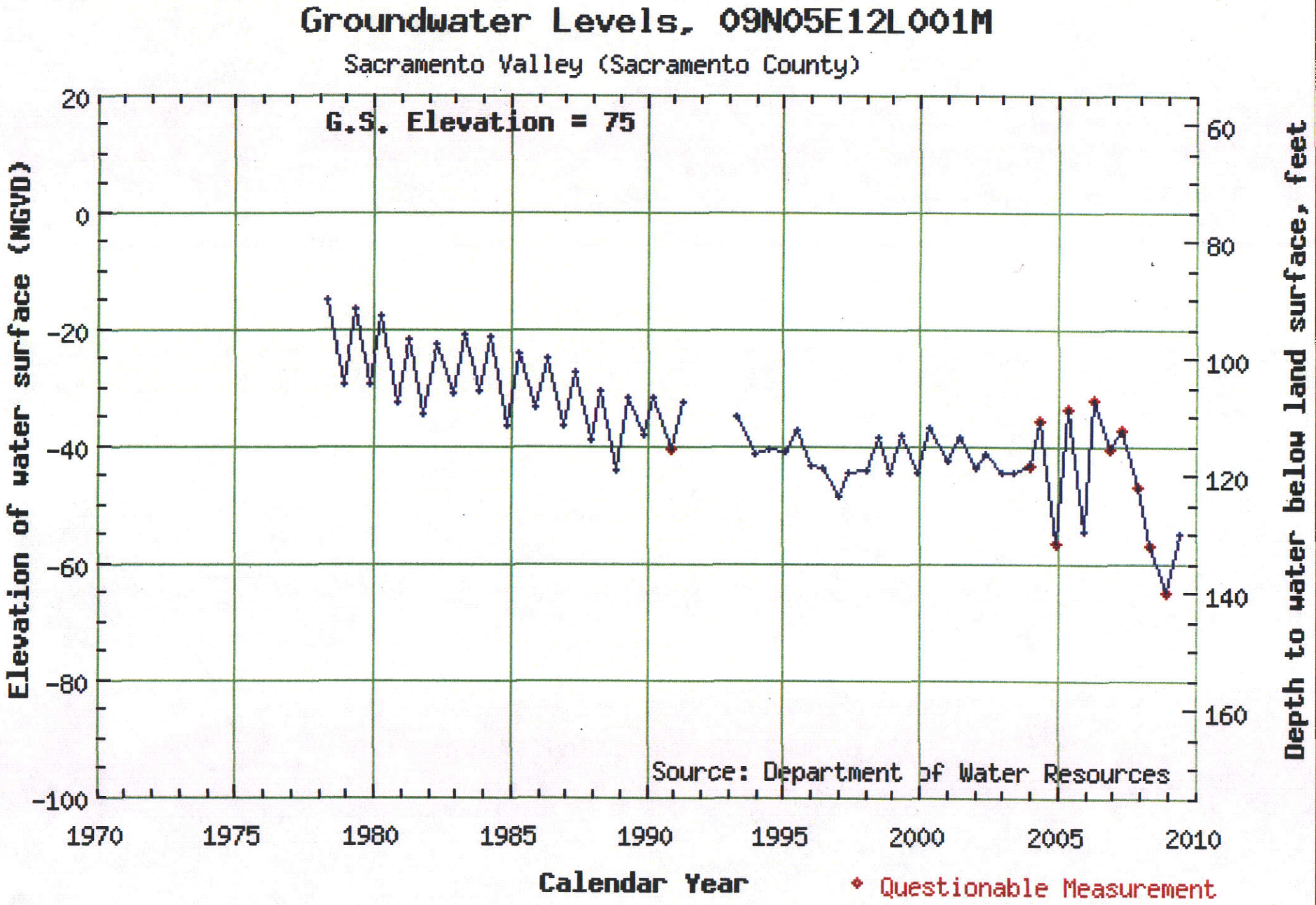
THIS MONTH =	1.42
JULY 1, 2007 TO DATE =	1.49

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	13651.0
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	12722.0
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	10904.8
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	11317.8
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	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	8761.4


Groundwater Levels, 10N05E14Q002M
Sacramento Valley (Sacramento County)
G.S. Elevation = 85.5
Elevation of water surface (NGVD)
Depth to water below land surface, feet
50
30
10
-10
-30
-50
-70
40
60
80
100
120
140
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
Source: Department of Water Resources
Calendar Year
Questionable Measurement


Groundwater Levels, 10N06E21F002M
Sacramento Valley (Sacramento County)
G.S. Elevation = 158.5
Elevation of water surface (NGVD)
Depth to water below land surface, feet
110
80
50
20
-10
-40
-70
60
90
120
150
180
210
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
Source: Department of Water Resources
Calendar Year
Questionable Measurement


Groundwater Levels, 09N05E12L001M
Sacramento Valley (Sacramento County)
G.S. Elevation = 75
Elevation of water surface (NGVD)
Depth to water below land surface, feet
20
0
-20
-40
-60
-80
-100
60
80
100
120
140
160
1970
1975
1980
1985
1990
1995
2000
2005
2010
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

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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