



Water Resources ♦ Flood Control ♦ Water Rights

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September 30, 2011

Ms. Barbara Evoy, Deputy Director
Division of Water Rights
State Water Resources Control Board
P.O. Box 2000
Sacramento, CA 95812-2000

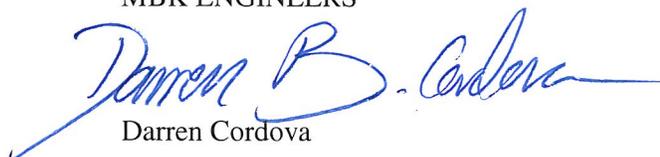
**Subject: Merced Irrigation District's 2010 Water Transfer
under License 11395 (Application 16186)**

Dear Ms. Evoy:

The purpose of this letter is to provide the information requested by the Division of Water Rights' (Division) Order WR 2010-0027-DWR (Order), dated September 2, 2010, approving the water transfer during 2010 from Merced Irrigation District (Merced) to participating State Water Contractors. Specifically, the enclosed memorandum provides the details requested by the final paragraph identified in Term 8 of the Division's Order relative to the time period that Merced's Lake McClure was refilling the water transfer quantity of 15,000 AF. The memorandum was transmitted to the Department of Water Resources (DWR) on July 29, 2011, with a copy to the U.S. Bureau of Reclamation (Reclamation), to identify that Lake McClure refilled the entire 2010 water transfer quantity at a time that resulted in no reservoir refill impacts. Following review of the memorandum, DWR staff and Reclamation staff concurred with the finding that no reservoir refill impacts occurred. We believe the details contained in the memorandum provide the information requested by the final paragraph identified in Term 8 of the Division's Order. Therefore, we believe this letter and the memorandum, together with the memorandum submitted to the Division on December 1, 2010, satisfies Merced's reporting requirements identified in the Division's Order.

Please call if you have any questions or require additional information.

Sincerely
MBK ENGINEERS



Darren Cordova

DC/ps
5520.10/BARBARA EVOY 09.30.2011

Enclosure

cc (w/o enclosure):

John Sweigard, Merced ID
Hicham Eltal, Merced ID
Ken Robbins, Counsel to Merced ID
Nancy Quan, DWR
Tracy Pettit, DWR
Ray Sahlberg, USBR
Jeffery Sandberg, USBR
James Beck, Kern County Water Agency
Larry Rodriguez, Kern County Water Agency
Dale Melville, Dudley Ridge Water District



Water Resources • Flood Control • Water Rights

MEMORANDUM

DATE: July 29, 2011

TO: Nancy Quan, Department of Water Resources

FROM: Darren Cordova

SUBJECT: Merced ID Reservoir Refill Accounting for 2010 Water Transfer

In accordance with Article 6(e) to Agreement Nos. SWPAO # 10-181 and 10-182 (Agreements) between Merced Irrigation District (Merced), the Department of Water Resources (DWR), and each of the two participating State Water Contractors, including Kern County Water Agency (KCWA) and Dudley Ridge Water District (DRWD), the purpose of this memorandum is to provide the reservoir refill accounting associated with reservoir releases by Merced for its 2010 Water Transfer of 15,000 AF. As background, Merced released previously stored water from New Exchequer Dam and bypassed these releases through McSwain Dam and Merced Falls Diversion Dam in order to meet the scheduled flows during September 7 through September 14, 2010, as a component of Merced's Federal Energy Regulatory Commission relicensing study 3.4, Instream Flow-Merced River Between Merced Falls Dam and Crocker-Huffman Diversion Dam. These releases were rediverted at the State Water Project's (SWP) Harvey O. Banks Pumping Plant for use within KCWA and DRWD. Additional details regarding the releases are contained in our memorandum to the Division of Water Rights, dated December 1, 2010, a copy of which was previously provided to DWR staff.

Based on the accounting procedures contained in Exhibit 2 to the Agreements, attached is Figure 1 identifying the daily transfer account balance for the 2010 Water Transfer, which increased to 15,000 acre-feet due to releases from September 7 through September 14. Also shown in Figure 1 are other accounting elements associated with the transfer and refill of water from Merced's 2010 Water Transfer. As identified further below, Figure 1 shows that refill in Lake McClure occurred during late November and early December 2010.

Due to hydrologic conditions, beginning on November 25, 2010, the actual storage held in Lake McClure approached to within 15,000 AF of the allowable storage determined by the U.S. Army Corps of Engineers (USACE), as shown in Figure 2. Figure 2 identifies that reservoir refill from Merced's 2010 Water Transfer was complete on December 9, 2010, as indicated by the transfer account balance. Table 1 includes the tabulated daily quantities represented in Figures 1 and 2, in accordance with Article 6(e) of the Agreements. Figure 2 and Table 1 identify that conditions in the Delta were in balance with storage withdrawal (S) during the first two days of refill in Lake McClure, November 25 and 26, 2010, based on data obtained from the U.S. Bureau of Reclamation (Reclamation). In addition, Figure 2 and Table 1 identify that conditions in the Delta were in excess (E) during the remaining period of refill in Lake McClure, November 27 through December 9, 2010. Table 1 also identifies that the Vernalis

Requirements condition was not in effect during the period of reservoir refill in Lake McClure, based on information obtained from Reclamation. Therefore, as shown in Table 1, reservoir refill that occurred on November 25 and 26, 2010 potentially resulted in a refill impact of 1,342 AF based on the accounting procedure contained in Exhibit 2 to the Agreements; and the refill that occurred between November 27 and December 9, 2010 did not result in any refill impacts.

In addition to the description of potential refill impacts identified above, the purpose of this memorandum is to describe findings regarding flood control operations and travel time, which indicate that an impact did not occur. As indicated above, refill impacts potentially occurred on November 25 and 26, 2010 and based on the data shown in Table 1, the daily volumes of refill impacts were 429 AF and 913 AF, respectively, due to hydrologic conditions. Based on data obtained from Reclamation's website, during these same two days, conditions in the Delta were in balance with storage withdrawal, as shown in Table 2, column 35. This condition means the Delta was in balanced conditions as a result of withdrawals from storage by the SWP and the Central Valley Project (CVP) in order to meet flow requirements and demands in the Delta. Columns 18 and 19 of Table 2 identify storage withdrawals that reached the Delta, adjusted for travel time from releases by the CVP and SWP, respectively. During November 25, the data indicates that no storage withdrawal reached the Delta from SWP or CVP reservoirs; and thus, no refill impact occurred on this date. On November 26, the data indicates that no storage withdrawals from the SWP's Oroville Reservoir reached the Delta; and that 1,898 AF of storage withdrawal from CVP reservoirs reached the Delta. The quantities of withdrawal from each of the CVP reservoirs include (adjusted for travel time): 76 AF from Whiskeytown Lake on November 21 (column 3, Table 2), 531 AF from Shasta Lake on November 21 (column 7, Table 2), and 1,291 AF from Folsom Lake on November 25 (column 11, Table 2). Therefore, storage withdrawals were occurring from CVP reservoirs on these dates and arrived in the Delta on November 26, 2010.

According to data obtained from the USACE's Water Control Data System for Shasta Lake, releases between November 3 and December 11, 2010 were relatively consistent, as shown in Figure 3. During this period, the volume of water held in storage at Shasta Lake decreased relatively steadily, with the exception of storage fluctuations that occurred between November 20 and November 24, 2010, as shown in Table 2, column 7. These fluctuations in the storage volume appear to be due to runoff from precipitation, as nearly three inches of precipitation was measured at Shasta Lake during November 18 through November 22, based on data obtained from USACE. Thereafter, the storage volume continued to decrease through December 4, 2010. During this period of November 21 through December 4, the total inflow to the Delta increased from approximately 13,000 cfs to approximately 20,000 cfs; and the total Delta Exports increased from approximately 8,600 cfs to over 10,000 cfs, based on data obtained from Reclamation. By December 7, the storage volume in Shasta Lake was greater than the top of conservation storage (flood control curve) due to additional precipitation and runoff. Based on the above, it appears that the releases from Shasta Lake through December 4 were to vacate storage for flood control purposes during a period when the ratio of Delta Exports to Delta Inflow decreased. Therefore, for this reason, the refill in Lake McClure that occurred on November 26 does not result in a refill impact.

Based on the USACE's Water Control Data System for Folsom Lake, releases between November 1 and November 22, 2010 were relatively consistent, as shown in Figure 4. The

storage volume in Folsom Lake decreased steadily from November 1 through November 18 to reduce storage to the maximum allowable by November 18. Between November 18 and November 24, the storage volume in Folsom Lake increased due to runoff from precipitation, as over two inches of precipitation was measured at Folsom Lake, based on data obtained from DWR's California Data Exchange Center. The storage volume surpassed the top of conservation storage between November 21 and November 25, as shown in Figure 4. Releases from Folsom Lake increased beginning on November 23; and continued to increase through November 30. Thus, it appears these releases were to vacate storage for flood control purposes. As identified above, withdrawals from storage at Folsom Lake occurred on November 25, which arrived in the Delta on November 26 when Merced's Lake McClure was refilling at a time the Delta was considered to be in balance with storage withdrawals. However, because the storage withdrawal on November 25 at Folsom Lake was made for flood control purposes, the refill in Lake McClure on November 26 does not result in a refill impact.

In addition to the discussion above regarding flood control operations, travel time between Lake McClure and the Delta was examined. As indicated above, the potential refill impact on November 25 and 26 occurred because Lake McClure refilled on those days while the Delta was in a balance condition with storage withdrawals on those same days. The travel time between Lake McClure and the Delta is approximately five days. In absence of Merced's 2010 Water Transfer, refill occurring on November 25 and 26 would have been released from Lake McClure and flowed downstream reaching the Delta on approximately November 30 and December 1. The Delta was in an excess condition on November 30 and December 1. Therefore, we believe that in absence of the 2010 Water Transfer, there would have been no impact to the SWP or CVP as a result of the refill that occurred in Lake McClure on November 25 or 26, 2010.

Conclusions

Based on the information identified in this memorandum regarding operations at SWP and CVP reservoirs, including the timing associated with refill occurring at Lake McClure relative to the timing of Delta balanced conditions, we believe there is no refill impact associated with the refill that occurred at Lake McClure on November 25 and 26. In addition, no refill impacts occurred from refill at Lake McClure between November 27 and December 9, 2010. Therefore, we believe this memorandum satisfies Merced's reporting requirements pursuant to the Agreements.


Darren Cordova

DC/ps
5520.10/NANCY QUAN MEMORANDUM 2011-07-29.DOCX

Attachments

Figure 1. Merced ID - SWC 2010 Water Transfer Transfer and Reservoir Refill

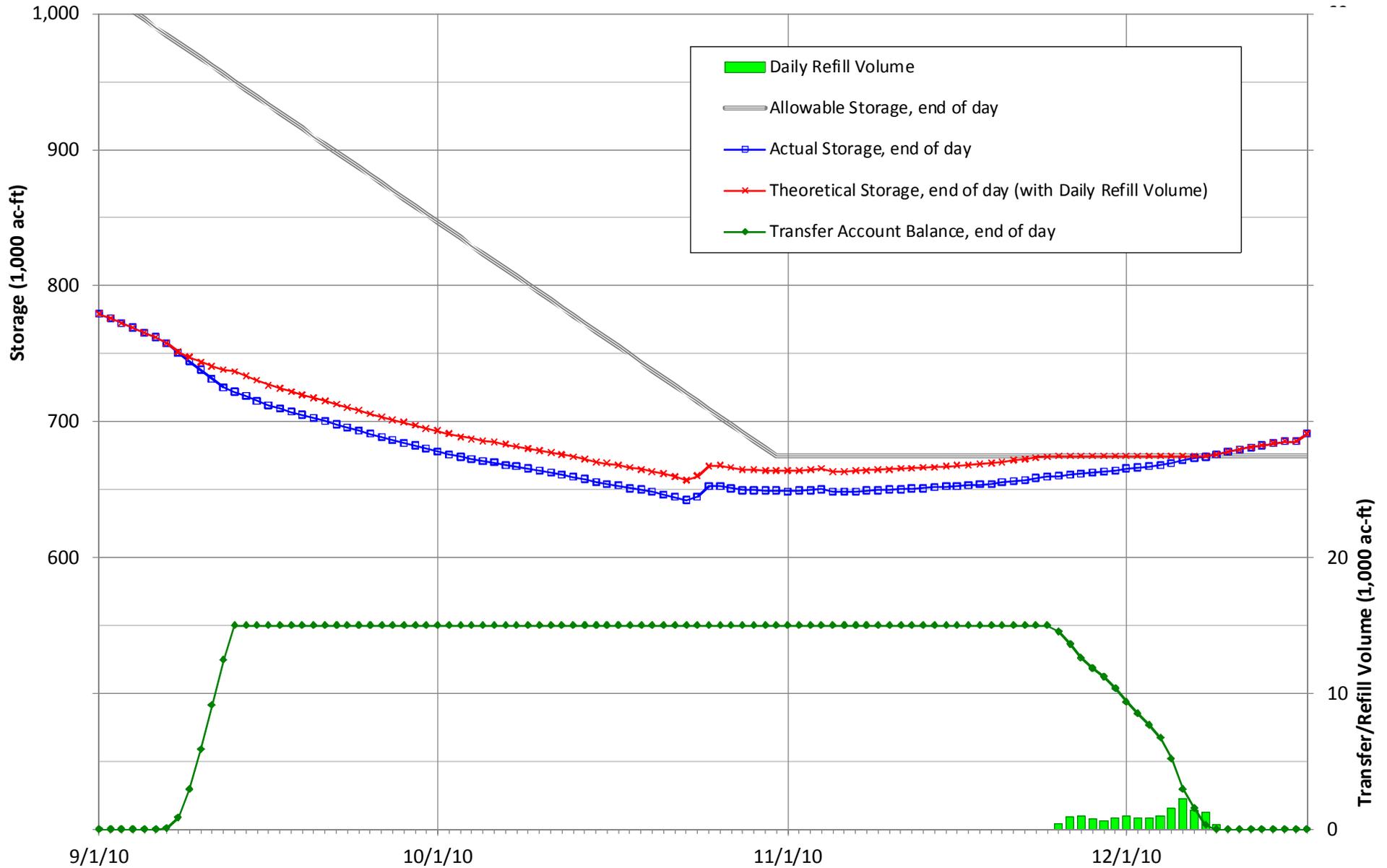


Figure 2. Merced ID - SWC 2010 Water Transfer Reservoir Refill Period

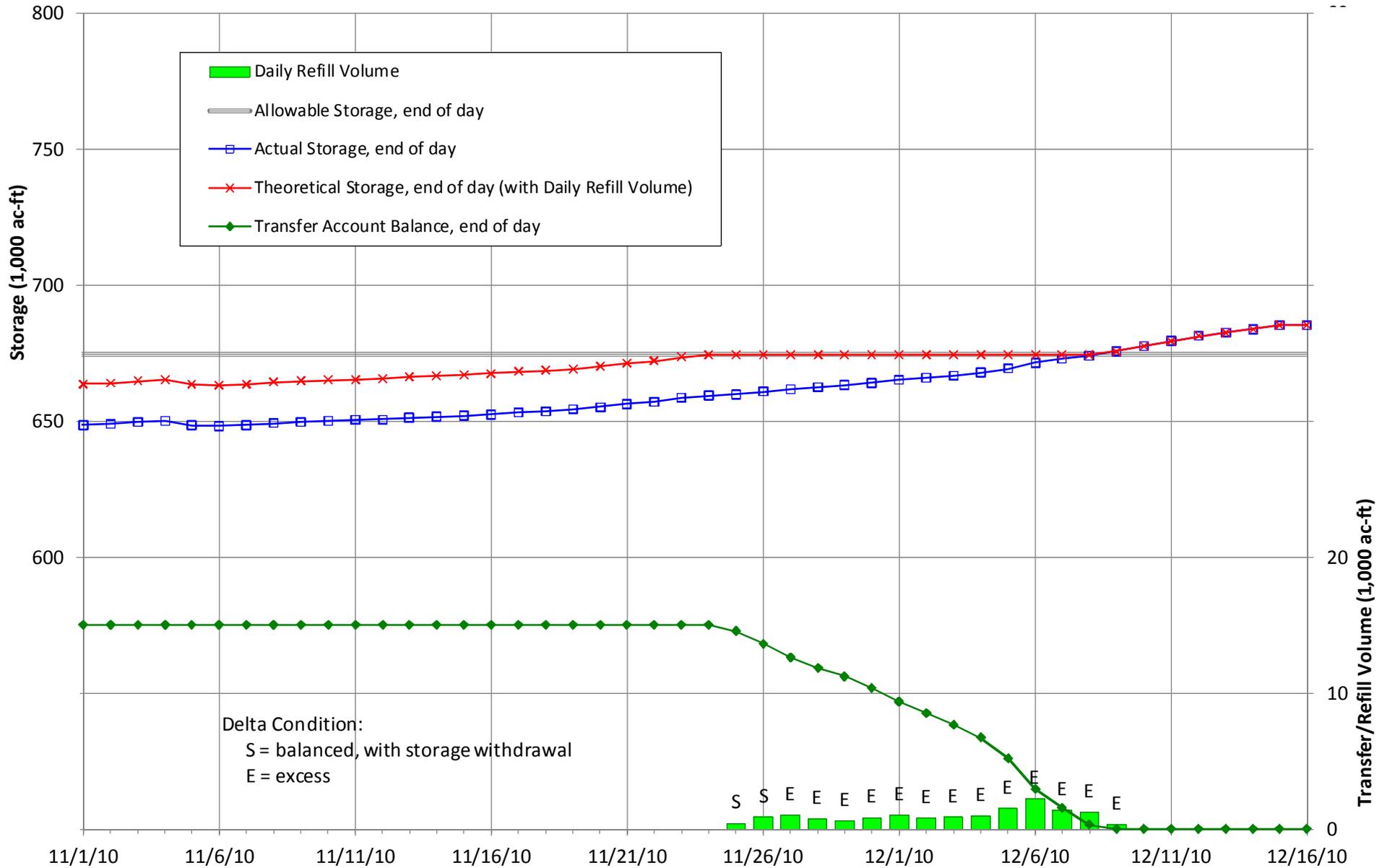


Figure 3. Shasta Lake Storage, Inflow and Outflow November-December 2010

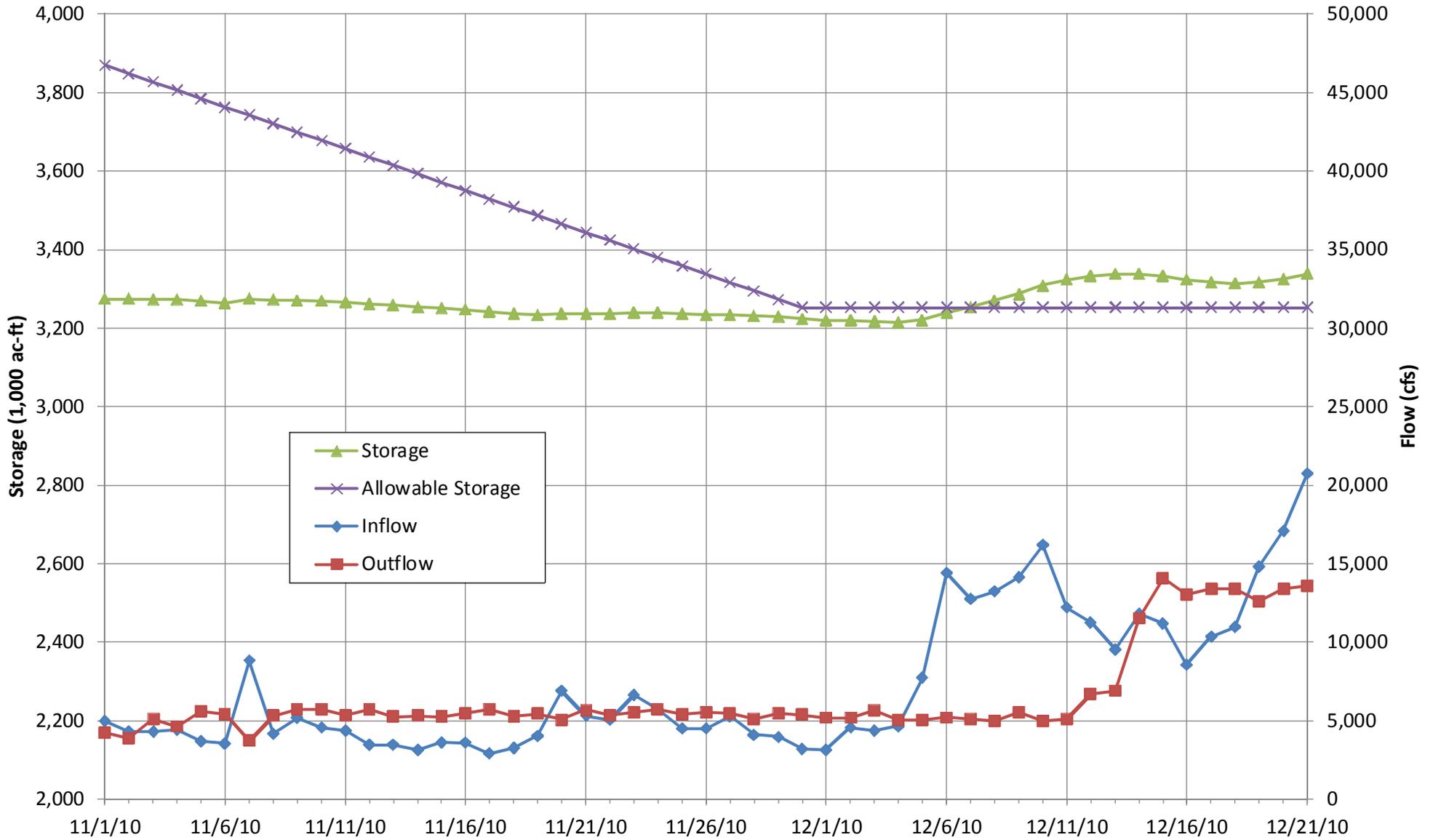


Figure 4. Folsom Lake Storage, Inflow and Outflow November-December 2010

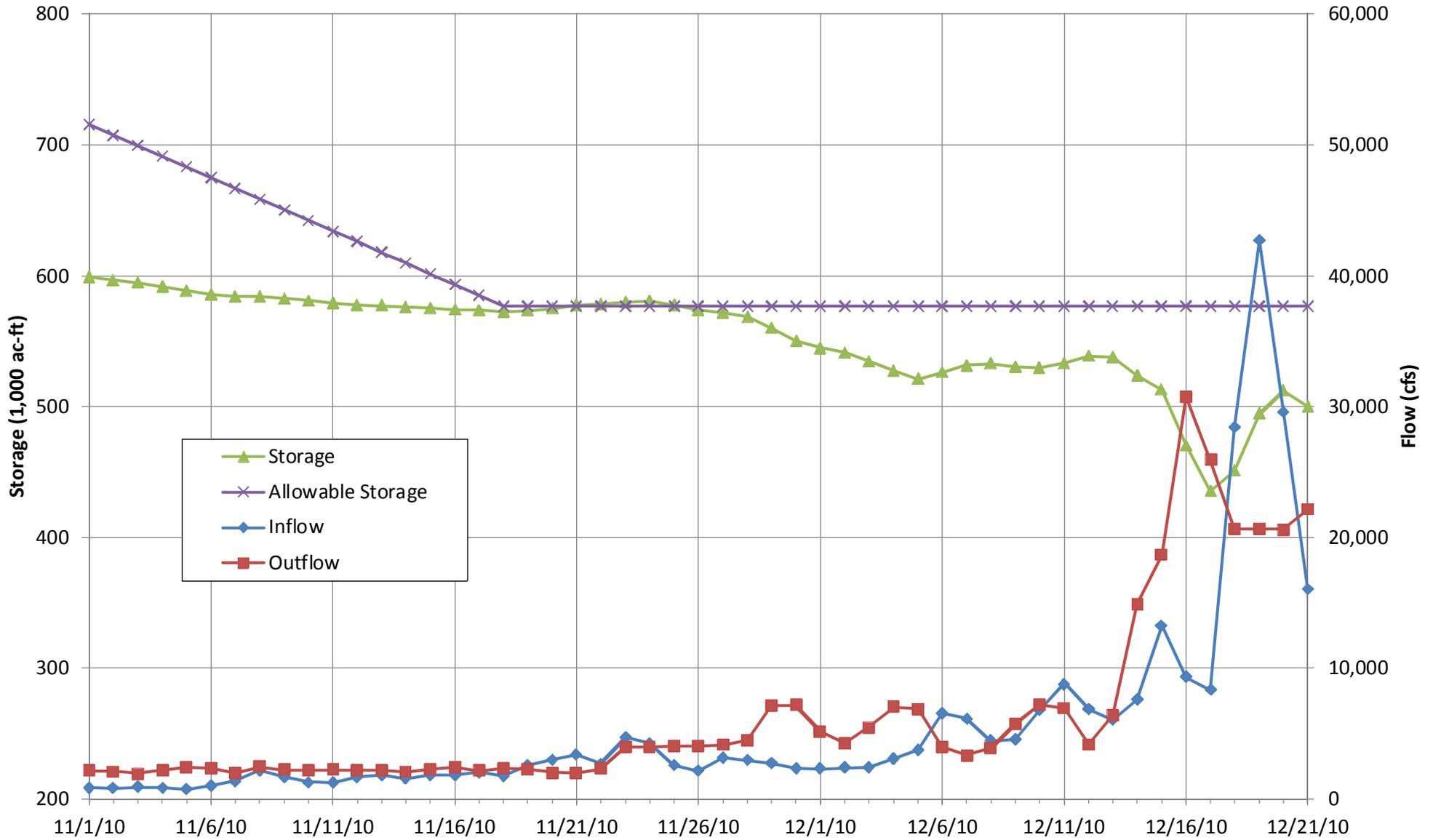


Table 1
Merced I.D. - SWC 2010 Water Transfer
Daily Tabulation of Transfer and Reservoir Refill

1	2	3	4	5	6	7	8	9	10	11	12	13
Date	Actual Storage, end of day (AF)	Transfer Account Balance, beginning of day (AF)	Transfer Account Balance, end of day (AF)	Theoretical Storage, end of day (without Daily Refill Volume) (AF)	Theoretical Storage, end of day (with Daily Refill Volume) (AF)	Allowable Storage, end of day (AF)	Daily Refill Volume (AF)	Cumulative Refill Volume, end of day (AF)	Delta Condition [see Note 1]	Vernalis Requirement [see Note 2]	Daily Refill Impact (AF)	Cumulative Refill Impact, end of day (AF)
9/1/10	779,077	0	0	779,077	779,077	1,018,900	0	0				
9/2/10	775,795	0	0	775,795	775,795	1,013,100	0	0				
9/3/10	772,409	0	0	772,409	772,409	1,007,400	0	0				
9/4/10	768,862	0	0	768,862	768,862	1,001,600	0	0				
9/5/10	765,556	0	0	765,556	765,556	995,900	0	0				
9/6/10	762,146	0	0	762,146	762,146	990,200	0	0				
9/7/10	757,450	0	103	757,450	757,553	984,400	0	0				
9/8/10	750,361	103	906	750,464	751,267	978,700	0	0				
9/9/10	744,381	906	2,943	745,287	747,324	973,000	0	0				
9/10/10	738,160	2,943	5,885	741,103	744,045	967,200	0	0				
9/11/10	731,704	5,885	9,154	737,589	740,858	961,500	0	0				
9/12/10	725,454	9,154	12,452	734,608	737,906	955,700	0	0				
9/13/10	722,019	12,452	15,000	734,471	737,019	950,000	0	0				
9/14/10	718,597	15,000	15,000	733,597	733,597	944,300	0	0				
9/15/10	715,296	15,000	15,000	730,296	730,296	938,500	0	0				
9/16/10	712,063	15,000	15,000	727,063	727,063	932,800	0	0				
9/17/10	709,537	15,000	15,000	724,537	724,537	927,100	0	0				
9/18/10	707,073	15,000	15,000	722,073	722,073	921,300	0	0				
9/19/10	704,722	15,000	15,000	719,722	719,722	915,600	0	0				
9/20/10	702,643	15,000	15,000	717,643	717,643	909,800	0	0				
9/21/10	700,252	15,000	15,000	715,252	715,252	904,100	0	0				
9/22/10	697,760	15,000	15,000	712,760	712,760	898,400	0	0				
9/23/10	695,486	15,000	15,000	710,486	710,486	892,600	0	0				
9/24/10	693,272	15,000	15,000	708,272	708,272	886,900	0	0				
9/25/10	690,801	15,000	15,000	705,801	705,801	881,200	0	0				
9/26/10	688,652	15,000	15,000	703,652	703,652	875,400	0	0				
9/27/10	686,351	15,000	15,000	701,351	701,351	869,700	0	0				
9/28/10	684,265	15,000	15,000	699,265	699,265	863,900	0	0				
9/29/10	682,340	15,000	15,000	697,340	697,340	858,200	0	0				
9/30/10	680,108	15,000	15,000	695,108	695,108	852,500	0	0				
10/1/10	678,089	15,000	15,000	693,089	693,089	846,700	0	0				
10/2/10	675,817	15,000	15,000	690,817	690,817	841,000	0	0				
10/3/10	674,168	15,000	15,000	689,168	689,168	835,300	0	0				
10/4/10	672,574	15,000	15,000	687,574	687,574	829,500	0	0				
10/5/10	671,035	15,000	15,000	686,035	686,035	823,800	0	0				
10/6/10	669,907	15,000	15,000	684,907	684,907	818,000	0	0				
10/7/10	668,015	15,000	15,000	683,015	683,015	812,300	0	0				
10/8/10	666,789	15,000	15,000	681,789	681,789	806,600	0	0				
10/9/10	665,361	15,000	15,000	680,361	680,361	800,800	0	0				
10/10/10	663,885	15,000	15,000	678,885	678,885	795,100	0	0				
10/11/10	662,462	15,000	15,000	677,462	677,462	789,400	0	0				
10/12/10	660,840	15,000	15,000	675,840	675,840	783,600	0	0				
10/13/10	659,219	15,000	15,000	674,219	674,219	777,900	0	0				
10/14/10	657,654	15,000	15,000	672,654	672,654	772,100	0	0				
10/15/10	655,587	15,000	15,000	670,587	670,587	766,400	0	0				
10/16/10	654,128	15,000	15,000	669,128	669,128	760,700	0	0				
10/17/10	652,871	15,000	15,000	667,871	667,871	754,900	0	0				
10/18/10	651,017	15,000	15,000	666,017	666,017	749,200	0	0				
10/19/10	650,066	15,000	15,000	665,066	665,066	743,500	0	0				
10/20/10	648,218	15,000	15,000	663,218	663,218	737,700	0	0				
10/21/10	646,571	15,000	15,000	661,571	661,571	732,000	0	0				
10/22/10	644,383	15,000	15,000	659,383	659,383	726,200	0	0				
10/23/10	642,152	15,000	15,000	657,152	657,152	720,500	0	0				
10/24/10	644,831	15,000	15,000	659,831	659,831	714,800	0	0				
10/25/10	652,420	15,000	15,000	667,420	667,420	709,000	0	0				
10/26/10	652,670	15,000	15,000	667,670	667,670	703,300	0	0				
10/27/10	651,167	15,000	15,000	666,167	666,167	697,600	0	0				
10/28/10	649,716	15,000	15,000	664,716	664,716	691,800	0	0				
10/29/10	649,516	15,000	15,000	664,516	664,516	686,100	0	0				
10/30/10	649,166	15,000	15,000	664,166	664,166	680,300	0	0				
10/31/10	649,066	15,000	15,000	664,066	664,066	674,600	0	0				
11/1/10	648,816	15,000	15,000	663,816	663,816	674,600	0	0			0	0

Table 1
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11/2/10	649,016	15,000	15,000	664,016	664,016	674,600	0	0			0	0
11/3/10	649,716	15,000	15,000	664,716	664,716	674,600	0	0			0	0
11/4/10	650,366	15,000	15,000	665,366	665,366	674,600	0	0			0	0
11/5/10	648,567	15,000	15,000	663,567	663,567	674,600	0	0			0	0
11/6/10	648,417	15,000	15,000	663,417	663,417	674,600	0	0			0	0
11/7/10	648,717	15,000	15,000	663,717	663,717	674,600	0	0			0	0
11/8/10	649,315	15,000	15,000	664,315	664,315	674,600	0	0			0	0
11/9/10	649,716	15,000	15,000	664,716	664,716	674,600	0	0			0	0
11/10/10	650,116	15,000	15,000	665,116	665,116	674,600	0	0			0	0
11/11/10	650,466	15,000	15,000	665,466	665,466	674,600	0	0			0	0
11/12/10	650,766	15,000	15,000	665,766	665,766	674,600	0	0			0	0
11/13/10	651,268	15,000	15,000	666,268	666,268	674,600	0	0			0	0
11/14/10	651,668	15,000	15,000	666,668	666,668	674,600	0	0			0	0
11/15/10	652,069	15,000	15,000	667,069	667,069	674,600	0	0			0	0
11/16/10	652,670	15,000	15,000	667,670	667,670	674,600	0	0			0	0
11/17/10	653,223	15,000	15,000	668,223	668,223	674,600	0	0			0	0
11/18/10	653,625	15,000	15,000	668,625	668,625	674,600	0	0			0	0
11/19/10	654,329	15,000	15,000	669,329	669,329	674,600	0	0			0	0
11/20/10	655,384	15,000	15,000	670,384	670,384	674,600	0	0			0	0
11/21/10	656,442	15,000	15,000	671,442	671,442	674,600	0	0			0	0
11/22/10	657,199	15,000	15,000	672,199	672,199	674,600	0	0			0	0
11/23/10	658,613	15,000	15,000	673,613	673,613	674,600	0	0			0	0
11/24/10	659,371	15,000	15,000	674,371	674,371	674,600	0	0			0	0
11/25/10	660,029	15,000	14,571	675,029	674,600	674,600	429	429	S	N	429	429
11/26/10	660,942	14,571	13,658	675,513	674,600	674,600	913	1,342	S	N	913	1,342
11/27/10	661,955	13,658	12,645	675,613	674,600	674,600	1,013	2,355	E	N	0	1,342
11/28/10	662,716	12,645	11,884	675,361	674,600	674,600	761	3,116	E	N	0	1,342
11/29/10	663,326	11,884	11,274	675,210	674,600	674,600	610	3,726	E	N	0	1,342
11/30/10	664,191	11,274	10,409	675,465	674,600	674,600	865	4,591	E	N	0	1,342
12/1/10	665,208	10,409	9,392	675,617	674,600	674,600	1,017	5,608	E	N	0	1,342
12/2/10	666,024	9,392	8,576	675,416	674,600	674,600	816	6,424	E	N	0	1,342
12/3/10	666,891	8,576	7,709	675,467	674,600	674,600	867	7,291	E	N	0	1,342
12/4/10	667,861	7,709	6,739	675,570	674,600	674,600	970	8,261	E	N	0	1,342
12/5/10	669,394	6,739	5,206	676,133	674,600	674,600	1,533	9,794	E	N	0	1,342
12/6/10	671,650	5,206	2,950	676,856	674,600	674,600	2,256	12,050	E	N	0	1,342
12/7/10	673,037	2,950	1,563	675,987	674,600	674,600	1,387	13,437	E	N	0	1,342
12/8/10	674,271	1,563	329	675,834	674,600	674,600	1,234	14,671	E	N	0	1,342
12/9/10	675,868	329	0	676,197	675,868	674,600	329	15,000	E	N	0	1,342
12/10/10	677,831	0	0	677,831	677,831	674,600	0	15,000			0	1,342
12/11/10	679,590	0	0	679,590	679,590	674,600	0	15,000			0	1,342
12/12/10	681,352	0	0	681,352	681,352	674,600	0	15,000			0	1,342
12/13/10	682,548	0	0	682,548	682,548	674,600	0	15,000			0	1,342
12/14/10	683,952	0	0	683,952	683,952	674,600	0	15,000			0	1,342
12/15/10	685,307	0	0	685,307	685,307	674,600	0	15,000			0	1,342
12/16/10	685,359	0	0	685,359	685,359	674,600	0	15,000			0	1,342
12/17/10	690,853	0	0	690,853	690,853	674,600	0	15,000			0	1,342
12/18/10	708,679	0	0	708,679	708,679	674,600	0	15,000			0	1,342
12/19/10	730,879	0	0	730,879	730,879	674,600	0	15,000			0	1,342
12/20/10	738,714	0	0	738,714	738,714	674,600	0	15,000			0	1,342
12/21/10	741,987	0	0	741,987	741,987	674,600	0	15,000			0	1,342

Notes

- [1] B = Delta in Balanced Condition without storage withdrawal
S = Delta in Balanced Condition with storage withdrawal
E = Delta in Excess Condition
- [2] Y = Vernalis Requirements condition in effect
N = Vernalis Requirements condition not in effect

Table 2.

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

RUN DATE: January 27, 2011

DAILY CVP-SWP COORDINATED OPERATION

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DAY	WHISKEYTOWN LAKE			SHASTA LAKE				FOLSOM LAKE				SHASTA-FOLSOM	LAKE OROVILLE		DELTA EXPORT		
	CLEAR CREEK PLUS SPRING CR PP REL	NATURAL FLOW	STOR WITH-DRAW	KES REL	COMP INFLOW	SPRING CR PP REL	STORED FLOW(-) OR S.W. (+)	NIMBUS REL	LAKE DELIV	COMP INFLOW	STORED FLOW (-) OR S.W. (+)	STORED FLOW (-) OR S.W. (+) @ DELTA	NEW MELONES WATER	COMP INFLOW PLUS KELLY RIDGE	STORED FLOW (-) OR S.W. (+)	DMC CCC PLUS FED DELTA	DELTA PUMP PLUS STATE DMC
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	1,575	54	1,521	6,042	4,971	1,378	-307	2,064	115	862	1,317	2,241	N/A	999	2,345	4,185	5,160
2	1,593	39	1,554	5,994	4,325	1,396	273	2,041	107	846	1,302	2,021	N/A	3,629	-114	4,177	5,074
3	1,324	35	1,289	6,114	4,313	1,127	674	2,037	107	914	1,230	1,154	N/A	2,524	1,120	4,208	4,960
4	1,364	56	1,308	5,975	4,436	1,167	372	2,017	109	875	1,251	1,264	N/A	2,566	1,172	4,190	4,932
5	220	47	173	5,792	3,682	23	2,087	2,075	116	747	1,444	366	N/A	2,678	1,137	4,196	5,909
6	247	82	165	5,795	3,547	50	2,198	2,074	119	1,017	1,176	1,137	N/A	615	3,114	4,215	1,549
7	1,337	624	713	5,476	8,812	1,140	-4,476	1,986	96	1,390	692	1,449	N/A	3,213	512	4,169	6,364
8	341	147	194	5,876	4,154	144	1,578	2,025	98	2,183	-60	1,366	N/A	4,685	-879	4,186	4,809
9	247	118	129	5,879	5,161	50	668	2,037	92	1,686	443	312	N/A	2,223	1,800	4,190	4,864
10	246	142	104	5,792	4,543	50	1,199	2,038	88	1,312	814	2,530	N/A	3,840	144	4,181	5,239
11	246	143	103	5,749	4,372	50	1,327	2,037	93	1,253	877	3,012	N/A	2,576	1,211	4,115	5,239
12	246	85	161	5,787	3,446	50	2,291	2,040	102	1,663	479	-3,599	N/A	3,919	-216	4,191	5,465
13	246	99	147	5,919	3,437	50	2,432	2,035	96	1,865	266	2,057	N/A	1,594	2,106	4,206	4,815
14	401	119	282	5,883	3,134	204	2,545	2,039	96	1,585	550	934	N/A	2,995	684	4,210	4,138
15	230	96	134	5,757	3,624	35	2,098	2,034	98	1,838	294	1,749	N/A	2,963	715	4,027	4,174
16	207	93	114	5,757	3,594	11	2,152	2,037	95	1,814	318	1,621	N/A	2,362	1,406	4,263	4,166
17	207	68	139	5,723	2,887	11	2,825	2,042	91	2,049	84	2,609	N/A	2,629	1,166	4,158	4,392
18	207	57	150	5,838	3,258	11	2,569	2,014	85	1,776	323	2,516	N/A	2,928	855	4,143	4,110
19	207	24	183	5,915	4,035	11	1,869	2,014	78	2,573	-481	2,868	N/A	3,129	627	4,213	4,107
20	207	414	0	6,021	6,888	11	-878	2,050	86	2,991	-855	1,617	N/A	3,933	-219	4,117	4,494
21	207	131	76	5,855	5,313	11	531	2,065	85	3,423	-1,273	1,297	N/A	2,840	874	4,153	4,489
22	208	96	112	5,975	5,042	11	922	2,059	82	2,707	-566	1,552	N/A	3,851	-231	4,158	4,489
23	209	103	106	5,934	6,626	11	-703	3,670	74	4,705	-961	2,003	N/A	3,770	-275	4,182	5,525
24	209	101	108	5,804	5,748	11	45	3,784	79	4,282	-419	908	N/A	4,438	-1,075	4,167	5,921
25	209	72	137	5,843	4,481	11	1,351	3,789	82	2,580	1,291	-1,297	N/A	2,717	570	4,216	5,618
26	209	57	152	5,840	4,502	11	1,327	3,791	78	2,144	1,725	1,822	N/A	3,682	-395	4,187	5,541
27	209	176	33	5,897	5,278	11	608	3,791	77	3,138	730	2,647	N/A	2,875	418	4,179	5,428
28	209	87	122	5,902	4,098	11	1,793	4,304	27	2,975	1,356	27	N/A	3,485	-192	4,189	6,150
29	209	67	142	5,874	3,967	11	1,896	7,089	43	2,727	4,405	1,401	N/A	2,749	515	4,165	5,840
30	209	48	161	5,880	3,209	11	2,660	7,071	58	2,381	4,748	5,756	N/A	3,292	-46	4,164	5,739
TOTALS			9,712	175,888			33,926	82,149			22,500				18,849	125,300	148,700

COMMENTS: ALL VALUES IN C.F.S

Table 2.

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

RUN DATE: January 27, 2011

NOVEMBER 2010

DAILY CVP-SWP COORDINATED OPERATION

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DAY	STORAGE WITHDRAWAL				IBU OF STORAGE WITHDRAWALS					STORED AND UNSTORED FLOW FOR EXPORT						ACCOUNTS			
	CVP S. W. @ DELTA	SWP S. W. @ DELTA	TOTAL S. W.	TOTAL EXPORTS	IBU OF S. W.	CVP % OF IBU	SWP % OF IBU	CVP ALLOW EXPORT	SWP ALLOW EXPORT	CVP STORED FLOW	SWP STORED FLOW	TOTAL STORED FLOW	USF FOR EXP	CVP ALLOW EXP	SWP ALLOW EXP	DAILY CVP	DAILY SWP	DELTA IN BALANCE OR EXCESS	USBR ACCOUNT BALANCE
	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
1	3,860	-298	3,562	9,345	0	0	0	0	0	0	298	298	5,783	7,041	2,304	2,856	-2,856	S	149,396
2	3,481	733	4,214	9,251	0	0	0	0	0	0	0	0	5,037	6,251	3,000	2,074	-2,074	S	149,396
3	2,617	54	2,671	9,168	0	0	0	0	0	0	0	0	6,497	6,190	2,978	1,982	-1,982	S	149,396
4	2,729	2,345	5,074	9,122	0	0	0	0	0	0	0	0	4,048	4,955	4,167	765	-765	S	149,396
5	2,141	-114	2,027	10,105	0	0	0	0	0	0	114	114	8,078	6,584	3,521	2,388	-2,388	S	149,396
6	2,658	1,120	3,778	5,764	0	0	0	0	0	0	0	0	1,986	3,750	2,014	-465	465	S	149,396
7	3,003	1,172	4,175	10,533	0	0	0	0	0	0	0	0	6,358	6,500	4,033	2,331	-2,331	S	149,396
8	2,655	1,137	3,792	8,995	0	0	0	0	0	0	0	0	5,203	5,517	3,478	1,331	-1,331	S	149,396
9	1,620	3,114	4,734	9,054	0	0	0	0	0	0	0	0	4,320	3,996	5,058	-194	194	S	149,396
10	2,703	512	3,215	9,420	0	0	0	0	0	0	0	0	6,205	6,116	3,304	1,935	-1,935	S	149,396
11	3,177	-879	2,298	9,354	0	0	0	0	0	0	879	879	7,056	7,058	2,296	2,943	-2,943	S	149,396
12	-2,886	1,800	-1,086	9,656	0	0	0	0	0	2,886	0	2,886	10,742	3,022	6,634	-1,169	1,169	S	149,396
13	2,251	144	2,395	9,021	0	0	0	0	0	0	0	0	6,626	5,895	3,126	1,689	-1,689	S	149,396
14	1,063	1,211	2,274	8,348	0	0	0	0	0	0	0	0	6,074	4,404	3,944	194	-194	S	149,396
15	1,853	-216	1,637	8,201	0	0	0	0	0	0	216	216	6,564	5,463	2,738	1,436	-1,436	S	149,396
16	1,724	2,106	3,830	8,429	0	0	0	0	0	0	0	0	4,599	4,253	4,176	-10	10	S	149,396
17	2,770	684	3,454	8,550	0	0	0	0	0	0	0	0	5,096	5,573	2,977	1,415	-1,415	S	149,396
18	2,663	715	3,378	8,253	0	0	0	0	0	0	0	0	4,875	5,344	2,909	1,201	-1,201	S	149,396
19	3,150	1,406	4,556	8,320	0	0	0	0	0	0	0	0	3,764	5,220	3,100	1,007	-1,007	S	149,396
20	1,751	1,166	2,917	8,611	0	0	0	0	0	0	0	0	5,694	4,883	3,728	766	-766	S	149,396
21	1,411	855	2,266	8,642	0	0	0	0	0	0	0	0	6,376	4,918	3,724	765	-765	S	149,396
22	1,691	627	2,318	8,647	0	0	0	0	0	0	0	0	6,329	5,172	3,475	1,014	-1,014	S	149,396
23	2,153	-219	1,934	9,707	0	0	0	0	0	0	219	219	7,773	6,428	3,279	2,246	-2,246	S	149,396
24	1,091	874	1,965	10,088	0	0	0	0	0	0	0	0	8,123	5,559	4,529	1,392	-1,392	S	149,396
25	-1,297	-231	-1,528	9,834	0	0	0	0	0	1,297	231	1,528	11,362	4,952	4,882	736	-736	S	149,396
26	1,898	-275	1,623	9,728	0	0	0	0	0	0	275	275	8,105	6,356	3,372	2,169	-2,169	S	149,396
27	2,759	-1,075	1,684	9,607	0	0	0	0	0	0	1,075	1,075	7,923	7,117	2,490	2,938	-2,938	E	149,396
28	133	570	703	10,339	0	0	0	0	0	0	0	0	9,636	5,433	4,906	1,244	-1,244	E	149,396
29	1,509	-395	1,114	10,005	0	0	0	0	0	0	395	395	8,891	6,399	3,606	2,234	-2,234	E	149,396
30	5,893	418	6,311	9,903	0	0	0	0	0	0	0	0	3,592	7,869	2,034	3,705	-3,705	E	149,396

TOTALS 42,918 -42,918

COMMENTS: ALL VALUES IN C.F.S
NOV 2010 BALANCED AT 149,396 CFS WITH DWR (M. VALDEZ 01_27_2011).