

APPENDIX Ž3

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2008 VAMP DAILY OPERATION PLAN – MARCH 14, 2008
 (A1) LOW UNGAGED FLOW
 Target Flow Period: April 24 - May 24 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				SJR above Merced River 2 day lag		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)		
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)		
3/15/08																				
3/16/08																				
3/17/08																				
3/18/08																				
3/19/08																				
3/20/08																				
3/21/08																				
3/22/08																				
3/23/08																				
3/24/08																				
3/25/08																				
3/26/08																				
3/27/08																				
3/28/08																				
3/29/08									250			250								
3/30/08									250			250	170	170		170	746	746		
3/31/08									488			250	170	170		170	746	746		
4/1/08	1,858			1,858					484	200		250	170	170		170	746	746		
4/2/08	1,854			1,854					480	200		250	170	170		170	746	746		
4/3/08	1,850			1,850					476	200		250	170	170		170	746	746		
4/4/08	1,846			1,846					472	200		250	170	170		170	746	746		
4/5/08	1,842			1,842					468	200		250	170	170		170	746	746		
4/6/08	1,838			1,838					464	200		250	170	170		170	746	746		
4/7/08	1,834			1,834					460	200		250	170	170		170	746	746		
4/8/08	1,830			1,830					456	200		250	170	170		170	746	746		
4/9/08	1,826			1,826					452	200		250	170	170		170	746	746		
4/10/08	1,822			1,822					448	200		250	170	170		170	746	746		
4/11/08	1,818			1,818					444	200		250	170	170		170	746	746		
4/12/08	1,814			1,814					440	200		250	170	170		170	746	746		
4/13/08	1,810			1,810					436	200		250	170	170		170	746	746		
4/14/08	1,806			1,806					432	200		250	170	170		170	746	746		
4/15/08	1,802			1,802					428	200		250	250	250		250	746	746		
4/16/08	1,798			1,798					424	200		250	250	250		250	746	746		
4/17/08	1,874			1,874					420	200		250	250	250		250	746	746		
4/18/08	1,870			1,870					416	200		250	250	250		250	746	746		
4/19/08	1,866			1,866					412	200		250	250	250		250	746	746		
4/20/08	1,862			1,862					408	200		250	250	250		250	746	746		
4/21/08	1,858			1,858					404	200		250	250	250		250	746	746		
4/22/08	1,854			1,854					400	200		250	557	732	163	895	746	746		
4/23/08	1,850			1,850					396	200		250	557	732	163	895	746	746		
4/24/08	2,328	936	1.86	3,264	392	200			250	557	81	888	732	732	163	895	746	746		
4/25/08	2,324	936	3.71	3,260	388	200			250	557	81	888	732	732	163	895	746	746		
4/26/08	2,320	936	5.57	3,256	384	200			250	557	81	888	732	732	163	895	746	746		
4/27/08	2,316	936	7.43	3,252	380	200			250	557	81	888	732	732	163	895	746	746		
4/28/08	2,312	936	9.28	3,248	376	200			250	557	81	888	732	732	163	895	746	746		
4/29/08	2,308	936	11.14	3,244	372	200			250	557	81	888	732	732	163	895	746	746		
4/30/08	2,304	936	13.00	3,240	368	200			250	557	81	888	732	732	163	895	746	746		
5/1/08	2,300	936	14.85	3,236	364	200			250	557	81	888	732	732	163	895	707	707		
5/2/08	2,296	936	16.71	3,232	360	200			250	557	81	888	732	732	163	895	707	707		
5/3/08	2,253	975	18.64	3,228	356	200			250	557	81	888	732	732	163	895	707	707		
5/4/08	2,249	975	20.58	3,224	352	200			250	557	81	888	732	732	163	895	707	707		
5/5/08	2,245	975	22.51	3,220	348	200			250	557	81	888	732	732	163	895	707	707		
5/6/08	2,241	975	24.44	3,216	344	200			250	557	81	888	732	732	163	895	707	707		
5/7/08	2,237	975	26.38	3,212	340	200			250	557	81	888	732	732	163	895	707	707		
5/8/08	2,233	975	28.31	3,208	336	200			250	557	81	888	732	732	163	895	707	707		
5/9/08	2,229	975	30.25	3,204	332	200			250	557	81	888	732	732	163	895	707	707		
5/10/08	2,225	975	32.18	3,200	328	200			250	557	81	888	732	732	163	895	707	707		
5/11/08	2,221	975	34.11	3,196	324	200			250	557	81	888	732	732	163	895	707	707		
5/12/08	2,217	975	36.05	3,192	320	200			250	557	81	888	732	732	163	895	707	707		
5/13/08	2,213	975	37.98	3,188	316	200			250	557	81	888	732	732	163	895	707	707		
5/14/08	2,209	975	39.92	3,184	312	200			250	557	81	888	732	732	163	895	707	707		
5/15/08	2,205	975	41.85	3,180	308	200			250	557	81	888	732	732	163	895	707	707		
5/16/08	2,201	975	43.78	3,176	304	200			250	557	81	888	732	732	163	895	707	707		
5/17/08	2,197	975	45.72	3,172	300	200			250	557	81	888	732	732	163	895	707	707		
5/18/08	2,193	975	47.65	3,168	296	200			250	557	81	888	732	732	163	895	707	707		
5/19/08	2,189	975	49.58	3,164	292	200			250	557	81	888	732	732	163	895	707	707		
5/20/08	2,185	975	51.52	3,160	288	200			250	557	81	888	732	732	163	895	707	707		
5/21/08	2,181	975	53.45	3,156	284	200			250	557	81	888	732	732	163	895	707	707		
5/22/08	2,177	975	55.39	3,152	280	200			250	557	81	888	617	617	163	780	707	707		
5/23/08	2,173	975	57.32	3,148	276	200			250	557	81	888	563	563	163	780	707	707		
5/24/08	2,054	975	59.25	3,029	272	200			250	557	81	888	510	510	163	780	707	707		
5/25/08	1,996	0		1,996	268	200			250	557	81	888	456	456	163	780	707	707		
5/26/08	1,939	0		1,939	264	200			250	557	81	888	402	402	163	780	707	707		
5/27/08	1,881	0		1,881	260	200			250	557	81	888	349	349	163	780	707	707		
5/28/08	1,823	0		1,823	256	200			250	557	81	888	295	295	163	780	707	707		
5/29/08	1,766	0		1,766	252	200			250	557	81	888	241	241	163	780	707	707		
5/30/08	1,708	0		1,708	248	200			250	557	81	888	188	188	163	780	707	707		
5/31/08	1,650	0		1,650	244	200			250	557	81	888	161	161	163	780	707	707		
VAMP Period																				
Avg. (cfs):	2,236	964		3,200	340	200			250	557	81	888	728	728	163	895	718	718		
Supplemental Water (TAF):		59.25								34.25	4.98				10.02		10.00	0		

APPENDIX A

VAMP flow operation period

Appendix A-1, Table 2
 2008 VAMP DAILY OPERATION PLAN – MARCH 14, 2008
 (A2) HIGH UNGAGED FLOW
 Target Flow Period: April 24 - May 24 • Flow Target: 4,450 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				Merced River at Cressey		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.		
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced River 2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow- reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)			
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)			
3/15/08																						
3/16/08																						
3/17/08																						
3/18/08																						
3/19/08																						
3/20/08																						
3/21/08																						
3/22/08																						
3/23/08																						
3/24/08																						
3/25/08																						
3/26/08																						
3/27/08																						
3/28/08																						
3/29/08										250			250						391			
3/30/08					492					250			250	170	170				391			
3/31/08					488					250			250	170	170				391			
4/1/08	1,903			1,903	484	600				250			250	170	170				391			
4/2/08	1,899			1,899	480	600				250			250	170	170				391			
4/3/08	1,895			1,895	476	600				250			250	170	170				391			
4/4/08	1,891			1,891	472	600				250			250	170	170				391			
4/5/08	1,887			1,887	468	600				250			250	170	170				391			
4/6/08	1,883			1,883	464	600				250			250	170	170				391			
4/7/08	1,879			1,879	460	600				250			250	170	170				391			
4/8/08	1,875			1,875	456	600				250			250	170	170				391			
4/9/08	1,871			1,871	452	600				250			250	170	170				391			
4/10/08	1,867			1,867	448	600				250			250	170	170				391			
4/11/08	1,863			1,863	444	600				250			250	170	170				391			
4/12/08	1,859			1,859	440	600				250			250	170	170				391			
4/13/08	1,855			1,855	436	600				250			250	170	170				391			
4/14/08	1,851			1,851	432	600				250			250	170	170				391			
4/15/08	1,847			1,847	428	600				250			250	250	250				391			
4/16/08	1,843			1,843	424	600				250			250	250	250				391			
4/17/08	1,919			1,919	420	600				250			250	250	250				391			
4/18/08	1,915			1,915	416	600				250			250	250	250				391			
4/19/08	1,911			1,911	412	600				250			250	250	250				391			
4/20/08	1,907			1,907	408	600				250			250	250	250				391			
4/21/08	1,903			1,903	404	600				250	634	119	1,003	250	250				391			
4/22/08	1,899			1,899	400	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
4/23/08	1,895			1,895	396	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
4/24/08	3,287	1,227	2.43	4,514	392	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
4/25/08	3,283	1,227	4.87	4,510	388	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
4/26/08	3,279	1,227	7.30	4,506	384	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
4/27/08	3,275	1,227	9.73	4,502	380	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
4/28/08	3,271	1,227	12.17	4,498	376	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
4/29/08	3,267	1,227	14.60	4,494	372	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
4/30/08	3,263	1,227	17.04	4,490	368	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/1/08	3,259	1,227	19.47	4,486	364	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/2/08	3,255	1,227	21.90	4,482	360	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/3/08	3,251	1,227	24.34	4,478	356	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/4/08	3,247	1,227	26.77	4,474	352	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/5/08	3,243	1,227	29.20	4,470	348	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/6/08	3,239	1,227	31.64	4,466	344	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/7/08	3,235	1,227	34.07	4,462	340	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/8/08	3,231	1,227	36.51	4,458	336	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/9/08	3,227	1,227	38.94	4,454	332	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/10/08	3,223	1,227	41.37	4,450	328	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/11/08	3,219	1,227	43.81	4,446	324	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/12/08	3,215	1,227	46.24	4,442	320	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/13/08	3,211	1,227	48.67	4,438	316	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/14/08	3,207	1,227	51.11	4,434	312	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/15/08	3,203	1,227	53.54	4,430	308	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/16/08	3,199	1,227	55.98	4,426	304	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/17/08	3,195	1,227	58.41	4,422	300	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/18/08	3,191	1,227	60.84	4,418	296	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/19/08	3,187	1,227	63.28	4,414	292	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/20/08	3,183	1,227	65.71	4,410	288	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/21/08	3,179	1,227	68.14	4,406	284	600				250	634	119	1,003	1,060	1,060	237	1,297	977	977	237	0	1,214
5/22/08	3,175	1,227	70.58	4,402	280	600				250				925	925	237	1,162	977	977	237	0	1,214
5/23/08	3,171	1,227	73.01	4,398	276	600				250				825	825		825	740	740			740
5/24/08	3,032	1,227	75.45	4,259	272	600				250				725	725		725	740	740			740
5/25/08	2,691	0		2,691	268	600				250				625	625		625	740	740			740
5/26/08	2,587	0		2,587	264	600				250				525	525		525	740	740			740
5/27/08	2,483	0		2,483	260	600				250				425	425		425	740	740			740
5/28/08	2,379	0		2,379	256	600				250				325	325		325	740	740			740
5/29/08	2,275	0		2,275	252	600				250				225	225		225	740				

Appendix A-1, Table 3
 2008 VAMP DAILY OPERATION PLAN – MARCH 28, 2008
 (B1) LOW UNGAGED FLOW
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				Merced River at Cressey		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced River 2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow- reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,870			1,870	781	-14	268		268	163	163		163	803	803			803		
3/16/08	1,900			1,900	785	-77	265		265	162	162		162	806	806			806		
3/17/08	1,940			1,940	763	-81	247		247	162	162		162	1,199	1,199			1,199		
3/18/08	1,910			1,910	762	-111	232		232	168	168		168	1,500	1,500			1,500		
3/19/08	2,080			2,080	757	-309	239		239	175	175		175	1,503	1,503			1,503		
3/20/08	2,240			2,240	755	-437	239		239	173	173		173	1,519	1,519			1,519		
3/21/08	2,270			2,270	783	-397	217		217	164	164		164	1,510	1,510			1,510		
3/22/08	2,320			2,320	777	-366	250		250	159	159		159	1,512	1,512			1,512		
3/23/08	2,390			2,390	757	-306	273		273	162	162		162	1,515	1,515			1,515		
3/24/08	2,420			2,420	738	-245	281		281	160	160		160	1,505	1,505			1,505		
3/25/08	2,370			2,370	733	-314	277		277	159	159		159	1,510	1,510			1,510		
3/26/08	2,340			2,340	681	-336	268		268	159	159		159	1,510	1,510			1,510		
3/27/08	2,380			2,380	671	-303	265		265	159	159		159	1,509	1,509			1,509		
3/28/08																				
3/29/08							250		250											
3/30/08					534		250		250	150	150		150	746	746			746		
3/31/08					530		250		250	150	150		150	746	746			746		
4/1/08	1,780			1,780	526	100	250		250	150	150		150	746	746			746		
4/2/08	1,776			1,776	522	100	250		250	150	150		150	746	746			746		
4/3/08	1,772			1,772	518	100	250		250	150	150		150	746	746			746		
4/4/08	1,768			1,768	514	100	250		250	150	150		150	746	746			746		
4/5/08	1,764			1,764	510	100	250		250	150	150		150	746	746			746		
4/6/08	1,760			1,760	506	100	250		250	150	150		150	746	746			746		
4/7/08	1,756			1,756	502	100	250		250	150	150		150	746	746			746		
4/8/08	1,752			1,752	498	100	250		250	150	150		150	746	746			746		
4/9/08	1,748			1,748	494	100	250		250	150	150		150	746	746			746		
4/10/08	1,744			1,744	490	100	250		250	150	150		150	746	746			746		
4/11/08	1,740			1,740	486	100	250		250	150	150		150	746	746			746		
4/12/08	1,736			1,736	482	100	250		250	150	150		150	746	746			746		
4/13/08	1,732			1,732	478	100	250		250	150	150		150	746	746			746		
4/14/08	1,728			1,728	474	100	250		250	150	150		150	746	746			746		
4/15/08	1,724			1,724	470	100	250		250	250	250		250	746	746			746		
4/16/08	1,720			1,720	466	100	250		250	250	250		250	746	746			746		
4/17/08	1,816			1,816	462	100	250		250	250	250		250	746	746			746		
4/18/08	1,812			1,812	457	100	250		250	250	250		250	746	746			746		
4/19/08	1,808			1,808	453	100	250	519	81	850	250	250	250	746	746			746		
4/20/08	1,803			1,803	449	100	250	519	81	850	705	1,000	200	1,200	746	600	0	0	600	
4/21/08	1,799			1,799	445	100	250	519	81	850	705	1,000	200	1,200	746	600	0	0	600	
4/22/08	2,399	800	1.59	3,199	440	100	250	519	81	850	705	1,000	200	1,200	746	600	0	0	600	
4/23/08	2,395	800	3.17	3,195	436	100	250	519	81	850	705	1,000	200	1,200	746	600	0	0	600	
4/24/08	2,391	800	4.76	3,191	432	100	250	519	81	850	705	1,000	200	1,200	746	600	0	0	600	
4/25/08	2,386	800	6.35	3,186	428	100	250	869	81	1,200	705	925	175	1,100	746	600	0	0	600	
4/26/08	2,382	800	7.93	3,182	423	100	250	869	81	1,200	705	850	150	1,000	746	600	0	0	600	
4/27/08	2,303	775	9.47	3,078	419	100	250	869	81	1,200	705	775	125	900	746	600	0	0	600	
4/28/08	2,224	1,100	11.65	3,224	415	100	250	869	81	1,200	705	700	0	700	746	600	0	0	600	
4/29/08	2,144	1,075	13.79	3,219	411	100	250	534	81	865	705	625	0	625	746	1,000	0	0	1,000	
4/30/08	2,065	950	15.67	3,015	407	100	250	269	81	600	705	550	50	600	746	1,000	400	0	1,400	
5/1/08	2,386	950	17.55	3,336	402	100	250	269	81	600	705	500	100	600	707	1,000	500	0	1,500	
5/2/08	2,307	1,065	19.67	3,372	398	100	250	269	81	600	705	500	100	600	707	1,000	500	0	1,500	
5/3/08	2,252	950	21.55	3,202	394	100	250	619	81	950	705	500	100	600	707	1,000	500	0	1,500	
5/4/08	2,248	950	23.43	3,198	390	100	250	619	81	950	705	500	100	600	707	1,000	100	0	1,100	
5/5/08	2,244	950	25.32	3,194	385	100	250	619	81	950	705	1,000	200	1,200	707	500	100	0	600	
5/6/08	2,240	900	27.10	3,140	381	100	250	619	81	950	705	1,000	200	1,200	707	500	100	0	600	
5/7/08	2,235	1,000	29.09	3,235	377	100	250	619	81	950	705	1,000	200	1,200	707	500	100	0	600	
5/8/08	2,231	1,000	31.07	3,231	373	100	250	619	81	950	705	1,000	200	1,200	707	500	100	0	600	
5/9/08	2,227	1,000	33.05	3,227	368	100	250	869	81	1,200	705	1,000	200	1,200	707	500	100	0	600	
5/10/08	2,223	1,000	35.04	3,223	364	100	250	869	81	1,200	705	900	200	1,100	707	500	100	0	600	
5/11/08	2,219	1,000	37.02	3,219	360	100	250	869	81	1,200	705	800	200	1,000	707	500	100	0	600	
5/12/08	2,114	1,250	39.50	3,364	356	100	250	869	81	1,200	705	700	200	900	707	500	100	0	600	
5/13/08	2,010	1,250	41.98	3,260	351	100	250	869	81	1,200	705	600	200	800	707	500	100	0	600	
5/14/08	1,906	1,250	44.46	3,156	347	100	250	569	81	900	705	500	140	640	707	500	300	0	800	
5/15/08	1,802	1,250	46.94	3,052	343	100	250	369	81	700	705	400	200	600	707	1,000	400	0	1,400	
5/16/08	1,697	1,390	49.70	3,087	339	100	250	369	81	700	705	400	200	600	707	1,000	500	0	1,500	
5/17/08	2,093	1,250	52.18	3,343	335	100	250	369	81	700	705	400	200	600	707	1,000	500	0	1,500	
5/18/08	2,089	1,150	54.46	3,239	331	100	250	369	81	700	705	400	200	600	707	1,000	500	0	1,500	
5/19/08	2,085	1,150	56.74	3,235	327	100	250	369	81	700	705	400	200	600	707	1,000	500	0	1,500	
5/20/08	2,081	1,150	59.02	3,231	323	100	250			250	705	400	200	600	707	950	160	0	1,110	
5/21/08	2,077	1,150	61.30	3,227	319	100	250			250	575	375		375	707	707			707	
5/22/08	2,023	810	62.91	2,833	315	100	250			250	450	275		275	707	707			707	
5/23/08	1,751	0		1,751	311	100	250			250	325	230		230	707	707			707	
5/24/08	1,647	0		1,647	307	100	250			250	225	225		225	707	707			707	
5/25/08	1,598	0		1,598	303	100	250			250	150	150		150	707	707			707	
5/26/08	1,589	0		1,589	299	100	250			250	150	150								

Appendix A-1, Table 4
 2008 VAMP DAILY OPERATION PLAN – MARCH 28, 2008
 (B2) HIGH UNGAGED FLOW
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				Merced River at Cressey		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced River 2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr. VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow- reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,870			1,870	781	-14	268		268	163	163		163	803	803			803		
3/16/08	1,900			1,900	785	-77	265		265	162	162		162	806	806			806		
3/17/08	1,940			1,940	763	-81	247		247	162	162		162	1,199	1,199			1,199		
3/18/08	1,910			1,910	762	-111	232		232	168	168		168	1,500	1,500			1,500		
3/19/08	2,080			2,080	757	-309	239		239	175	175		175	1,503	1,503			1,503		
3/20/08	2,240			2,240	755	-437	239		239	173	173		173	1,519	1,519			1,519		
3/21/08	2,270			2,270	783	-397	217		217	164	164		164	1,510	1,510			1,510		
3/22/08	2,320			2,320	777	-366	250		250	159	159		159	1,512	1,512			1,512		
3/23/08	2,390			2,390	757	-306	273		273	162	162		162	1,515	1,515			1,515		
3/24/08	2,420			2,420	738	-245	281		281	160	160		160	1,505	1,505			1,505		
3/25/08	2,370			2,370	733	-314	277		277	159	159		159	1,510	1,510			1,510		
3/26/08	2,340			2,340	681	-336	268		268	159	159		159	1,510	1,510			1,510		
3/27/08	2,380			2,380	671	-303	265		265	159	159		159	1,509	1,509			1,509		
3/28/08																				
3/29/08							250		250		180	180		180	391	391			391	
3/30/08					534		250		250		180	180		180	391	391			391	
3/31/08					530		250		250		180	180		180	391	391			391	
4/1/08	1,755			1,755	526	400	250		250		180	180		180	391	391			391	
4/2/08	1,751			1,751	522	400	250		250		180	180		180	391	391			391	
4/3/08	1,747			1,747	518	400	250		250		180	180		180	391	391			391	
4/4/08	1,743			1,743	514	400	250		250		180	180		180	391	391			391	
4/5/08	1,739			1,739	510	400	250		250		180	180		180	391	391			391	
4/6/08	1,735			1,735	506	400	250		250		180	180		180	391	391			391	
4/7/08	1,731			1,731	502	400	250		250		180	180		180	391	391			391	
4/8/08	1,727			1,727	498	400	250		250		180	180		180	391	391			391	
4/9/08	1,723			1,723	494	400	250		250		180	180		180	391	391			391	
4/10/08	1,719			1,719	490	400	250		250		180	180		180	391	391			391	
4/11/08	1,715			1,715	486	400	250		250		180	180		180	391	391			391	
4/12/08	1,711			1,711	482	400	250		250		180	180		180	391	391			391	
4/13/08	1,707			1,707	478	400	250		250		180	180		180	391	391			391	
4/14/08	1,703			1,703	474	400	250		250		180	180		180	391	391			391	
4/15/08	1,699			1,699	470	400	250		250		250	250		250	391	391			391	
4/16/08	1,695			1,695	466	400	250		250		250	250		250	391	391			391	
4/17/08	1,761			1,761	462	400	250		250		250	250		250	391	391			391	
4/18/08	1,757			1,757	457	400	250		250		250	250		250	391	391			391	
4/19/08	1,753			1,753	453	400	250	400	0	650	250	250		250	391	391			391	
4/20/08	1,748			1,748	449	400	250	400	0	650	722	1,000	0	1,000	977	700	0	0	700	
4/21/08	1,744			1,744	445	400	250	400	0	650	722	1,000	0	1,000	977	700	0	0	700	
4/22/08	2,799	400	0.79	3,199	440	400	250	400	0	650	722	1,000	0	1,000	977	700	0	0	700	
4/23/08	2,795	400	1.59	3,195	436	400	250	400	0	650	722	1,000	0	1,000	977	700	0	0	700	
4/24/08	2,790	400	2.38	3,190	432	400	250	400	0	650	722	1,000	0	1,000	977	700	0	0	700	
4/25/08	2,786	400	3.17	3,186	428	400	250	750	0	1,000	722	900	0	900	977	700	0	0	700	
4/26/08	2,782	400	3.97	3,182	423	400	250	750	0	1,000	722	800	0	800	977	700	0	0	700	
4/27/08	2,678	400	4.76	3,078	419	400	250	750	0	1,000	722	700	0	700	977	700	0	0	700	
4/28/08	2,574	750	6.25	3,324	415	400	250	500	0	750	722	600	0	600	977	700	45	0	745	
4/29/08	2,469	750	7.74	3,219	411	400	250	250	0	500	722	500	0	500	977	1,100	0	0	1,100	
4/30/08	2,365	795	9.31	3,160	407	400	250	150	0	400	722	500	0	500	977	1,500	0	0	1,500	
5/1/08	2,661	500	10.30	3,161	402	400	250	150	0	400	722	500	0	500	977	1,500	0	0	1,500	
5/2/08	3,057	250	10.80	3,307	398	400	250	150	0	400	722	500	0	500	977	1,500	0	0	1,500	
5/3/08	3,052	150	11.10	3,202	394	400	250	150	0	400	722	500	0	500	977	1,500	0	0	1,500	
5/4/08	3,048	150	11.40	3,198	390	400	250	200	0	450	722	1,000	0	1,000	977	1,000	200	0	1,200	
5/5/08	3,044	150	11.69	3,194	385	400	250	400	0	650	722	1,000	0	1,000	977	600	400	0	1,000	
5/6/08	3,040	350	12.39	3,390	381	400	250	500	0	750	722	1,000	0	1,000	977	600	150	0	750	
5/7/08	2,635	600	13.58	3,235	377	400	250	500	0	750	722	1,000	0	1,000	977	600	150	0	750	
5/8/08	2,631	550	14.67	3,181	373	400	250	500	0	750	722	1,000	0	1,000	977	600	150	0	750	
5/9/08	2,627	650	15.96	3,277	368	400	250	750	0	1,000	722	900	0	900	977	600	150	0	750	
5/10/08	2,623	650	17.25	3,273	364	400	250	750	0	1,000	722	800	0	800	977	600	150	0	750	
5/11/08	2,518	650	18.54	3,168	360	400	250	750	0	1,000	722	700	0	700	977	600	150	0	750	
5/12/08	2,414	900	20.32	3,314	356	400	250	500	0	750	722	600	0	600	977	600	150	0	750	
5/13/08	2,310	900	22.11	3,210	351	400	250	250	0	500	722	500	0	500	977	1,100	0	0	1,100	
5/14/08	2,206	900	23.89	3,106	347	400	250	250	0	500	722	500	0	500	977	1,500	0	0	1,500	
5/15/08	2,602	500	24.88	3,102	343	400	250	250	0	500	722	500	0	500	977	1,500	0	0	1,500	
5/16/08	2,997	250	25.38	3,247	339	400	250	250	0	500	722	500	0	500	977	1,500	0	0	1,500	
5/17/08	2,993	250	25.87	3,243	335	400	250	250	0	500	722	500	0	500	977	1,500	0	0	1,500	
5/18/08	2,989	250	26.37	3,239	331	400	250	250	0	500	722	500	0	500	977	1,500	0	0	1,500	
5/19/08	2,985	250	26.87	3,235	327	400	250	250	0	500	722	500	0	500	977	1,500	0	0	1,500	
5/20/08	2,981	250	27.36	3,231	323	400	250	250	0	500	722	500	0	500	977	1,000	0	0	1,000	
5/21/08	2,977	250	27.86	3,227	319	400	250	250	0	500	600	482	0	482	740	740	0	0	740	
5/22/08	2,473	250	28.35	2,723	315	400	250	250	0	500	475	475	0	475	740	740	0	0	740	
5/23/08	2,191	0		2,191	311	400	250	250	0	500	350	350	0	350	740	740	0	0	740	

Appendix A-1, Table 5
 2008 VAMP DAILY OPERATION PLAN – APRIL 7, 2008
 (C1) LOW UNGAGED FLOW
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				Merced River at Cressey		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced River 2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,820			1,820	781	-64	268			268	163	163		163	803	803			803	
3/16/08	1,850			1,850	785	-127	265			265	162	162		162	806	806			806	
3/17/08	1,880			1,880	763	-141	247			247	162	162		162	1,199	1,199			1,199	
3/18/08	1,860			1,860	762	-161	232			232	168	168		168	1,500	1,500			1,500	
3/19/08	2,010			2,010	757	-379	239			239	175	175		175	1,503	1,503			1,503	
3/20/08	2,180			2,180	755	-497	239			239	173	173		173	1,519	1,519			1,519	
3/21/08	2,210			2,210	783	-457	217			217	164	164		164	1,510	1,510			1,510	
3/22/08	2,270			2,270	777	-416	250			250	159	159		159	1,512	1,512			1,512	
3/23/08	2,350			2,350	757	-346	273			273	162	162		162	1,515	1,515			1,515	
3/24/08	2,390			2,390	738	-275	281			281	160	160		160	1,505	1,505			1,505	
3/25/08	2,330			2,330	733	-354	277			277	159	159		159	1,510	1,510			1,510	
3/26/08	2,290			2,290	681	-386	268			268	159	159		159	1,510	1,510			1,510	
3/27/08	2,350			2,350	671	-333	265			265	159	159		159	1,509	1,509			1,509	
3/28/08	2,410			2,410	597	-217	260			260	166	166		166	1,500	1,500			1,500	
3/29/08	2,430			2,430	598	-177	260			260	160	160		160	1,503	1,503			1,503	
3/30/08	2,480			2,480	583	-48	268			268	160	160		160	1,503	1,503			1,503	
3/31/08	2,480			2,480	583	-41	257			257	159	159		159	1,339	1,339			1,339	
4/1/08	2,380			2,380	563	-126	256			256	170	170		170	1,264	1,264			1,264	
4/2/08	2,210			2,210	566	-139	259			259	169	169		169	1,093	1,093			1,093	
4/3/08	2,160			2,160	542	-94	249			249	163	163		163	1,007	1,007			1,007	
4/4/08	2,050			2,050	550	-34	258			258	158	158		158	1,010	1,010			1,010	
4/5/08	2,020			2,020	499	49	260			260	161	161		161	1,008	1,008			1,008	
4/6/08	2,000			2,000	476	33	272			272	169	169		169	1,004	1,004			1,004	
4/7/08	1,926			1,926	432	0	250			250	180	180		180	391	391			391	
4/8/08	1,909			1,909	428	0	250			250	180	180		180	391	391			391	
4/9/08	1,275			1,275	424	0	250			250	180	180		180	391	391			391	
4/10/08	1,249			1,249	420	0	250			250	180	180		180	391	391			391	
4/11/08	1,245			1,245	416	0	250			250	180	180		180	391	391			391	
4/12/08	1,241			1,241	412	0	250			250	180	180		180	391	391			391	
4/13/08	1,237			1,237	408	0	250			250	180	180		180	391	391			391	
4/14/08	1,233			1,233	404	0	250			250	180	180		180	391	391			391	
4/15/08	1,229			1,229	400	0	250			250	250	250		250	391	391			391	
4/16/08	1,225			1,225	396	0	250			250	250	250		250	391	391			391	
4/17/08	1,291			1,291	392	0	250			250	250	250		250	391	391			391	
4/18/08	1,287			1,287	388	0	250			250	250	250		250	391	391			391	
4/19/08	1,283			1,283	384	0	250	471	119	840	250	250		250	391	391			391	
4/20/08	1,279			1,279	380	0	250	471	119	840	720	1,050	250	1,300	746	600	100	0	700	
4/21/08	1,275			1,275	376	0	250	471	119	840	720	1,050	250	1,300	746	600	100	0	700	
4/22/08	2,280	940	1.86	3,220	372	0	250	471	119	840	720	1,050	250	1,300	746	600	100	0	700	
4/23/08	2,276	940	3.73	3,216	369	0	250	511	119	880	720	1,050	250	1,300	746	600	100	0	700	
4/24/08	2,272	940	5.59	3,212	365	0	250	531	119	900	720	950	350	1,300	746	600	100	0	700	
4/25/08	2,269	940	7.46	3,209	361	0	250	531	119	900	720	850	400	1,250	746	600	100	0	700	
4/26/08	2,165	1,080	9.60	3,245	357	0	250	531	119	900	720	750	300	1,050	746	600	350	0	950	
4/27/08	2,061	1,150	11.88	3,211	353	0	250	531	119	900	720	650	250	900	746	600	500	0	1,100	
4/28/08	1,957	1,300	14.46	3,257	349	0	250	531	119	900	720	550	200	750	746	700	500	0	1,200	
4/29/08	1,853	1,400	17.24	3,253	345	0	250	581	119	950	720	500	250	750	746	1,000	200	0	1,200	
4/30/08	1,849	1,350	19.91	3,199	341	0	250	681	119	1,050	720	500	250	750	746	1,000	200	0	1,200	
5/1/08	2,095	1,100	22.10	3,195	337	0	250	831	119	1,200	720	500	250	750	707	1,000	110	0	1,110	
5/2/08	2,091	1,150	24.38	3,241	333	0	250	831	119	1,200	720	500	250	750	707	900	0	0	900	
5/3/08	2,087	1,160	26.68	3,247	329	0	250	831	119	1,200	720	500	250	750	707	900	0	0	900	
5/4/08	1,983	1,200	29.06	3,183	325	0	250	631	119	950	720	500	410	910	707	800	0	0	800	
5/5/08	1,979	1,200	31.44	3,179	321	0	250	531	119	900	720	1,000	300	1,300	707	500	200	0	700	
5/6/08	1,875	1,360	34.14	3,235	317	0	250	531	119	900	720	1,000	300	1,300	707	500	200	0	700	
5/7/08	2,071	1,250	36.61	3,271	313	0	250	531	119	900	720	1,000	300	1,300	707	500	200	0	700	
5/8/08	2,067	1,150	38.90	3,217	310	0	250	531	119	900	720	1,000	300	1,300	707	500	200	0	700	
5/9/08	2,063	1,150	41.18	3,213	306	0	250	531	119	900	720	1,000	300	1,300	707	500	250	0	750	
5/10/08	2,060	1,150	43.46	3,210	302	0	250	531	119	900	720	900	250	1,150	707	500	400	0	900	
5/11/08	2,056	1,200	45.84	3,256	298	0	250	531	119	900	720	800	200	1,000	707	500	550	0	1,050	
5/12/08	1,952	1,300	48.42	3,252	294	0	250	531	119	900	720	700	250	950	707	600	550	0	1,150	
5/13/08	1,848	1,400	51.19	3,248	290	0	250	781	119	1,150	720	600	300	900	707	600	550	0	1,150	
5/14/08	1,844	1,450	54.07	3,294	286	0	250	781	119	1,150	720	600	100	700	707	600	550	0	1,150	
5/15/08	1,740	1,500	57.04	3,240	282	0	250	781	119	1,150	720	550	100	650	707	1,000	200	0	1,200	
5/16/08	1,736	1,550	60.12	3,286	278	0	250	781	119	1,150	720	500	100	600	707	1,000	200	0	1,200	
5/17/08	2,082	1,200	62.50	3,282	274	0	250	781	119	1,150	720	450	100	550	707	1,000	200	0	1,200	
5/18/08	2,028	1,200	64.88	3,228	270	0	250	576	119	945	720	450	100	550	707	1,000	200	0	1,200	
5/19/08	1,974	1,200	67.26	3,174	266	0	250	271	119	640	720	400	100	500	707	1,000	200	0	1,200	
5/20/08	1,970	1,200	69.64	3,170	262	0	250			250	720	400	100	500	707	950	250	0	1,200	
5/21/08	1,916	995	71.61	2,911	258	0	250			250	350	350		350	707	707			707	
5/22/08	1,862	740	73.08	2,602	254	0	250			250	300	300		300	707	707			707	
5/23/08	1,565	0		1,565	250	0	250			250	250	250		250	707	707			707	
5/24/08	1,511	0		1,511	246	0	250			250	200	200		200	707	707			707	
5/25/08	1,457	0		1,457	242	0	250			250	150	150		150	707	707			707	
5/26/08	1,403	0		1,403	238	0	250			250	150	150		150	707	707			707	
5/27/08	1,349	0		1,349	234	0	250													

Appendix A-1, Table 6
2008 VAMP DAILY OPERATION PLAN – APRIL 7, 2008
(C2) HIGH UNGAGED FLOW
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				Merced River at Cressey		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced River 2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow- reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,820			1,820	781	-64	268		268	163	163		163	803	803			803		
3/16/08	1,850			1,850	785	-127	265		265	162	162		162	806	806			806		
3/17/08	1,880			1,880	763	-141	247		247	162	162		162	1,199	1,199			1,199		
3/18/08	1,860			1,860	762	-161	232		232	168	168		168	1,500	1,500			1,500		
3/19/08	2,010			2,010	757	-379	239		239	175	175		175	1,503	1,503			1,503		
3/20/08	2,180			2,180	755	-497	239		239	173	173		173	1,519	1,519			1,519		
3/21/08	2,210			2,210	783	-457	217		217	164	164		164	1,510	1,510			1,510		
3/22/08	2,270			2,270	777	-416	250		250	159	159		159	1,512	1,512			1,512		
3/23/08	2,350			2,350	757	-346	273		273	162	162		162	1,515	1,515			1,515		
3/24/08	2,390			2,390	738	-275	281		281	160	160		160	1,505	1,505			1,505		
3/25/08	2,330			2,330	733	-354	277		277	159	159		159	1,510	1,510			1,510		
3/26/08	2,290			2,290	681	-386	268		268	159	159		159	1,510	1,510			1,510		
3/27/08	2,350			2,350	671	-333	265		265	159	159		159	1,509	1,509			1,509		
3/28/08	2,410			2,410	597	-217	260		260	166	166		166	1,500	1,500			1,500		
3/29/08	2,430			2,430	598	-177	260		260	160	160		160	1,503	1,503			1,503		
3/30/08	2,480			2,480	583	-48	268		268	160	160		160	1,503	1,503			1,503		
3/31/08	2,480			2,480	583	-41	257		257	159	159		159	1,339	1,339			1,339		
4/1/08	2,380			2,380	563	-126	256		256	170	170		170	1,264	1,264			1,264		
4/2/08	2,210			2,210	566	-139	259		259	169	169		169	1,093	1,093			1,093		
4/3/08	2,160			2,160	542	-94	249		249	163	163		163	1,007	1,007			1,007		
4/4/08	2,050			2,050	550	-34	258		258	158	158		158	1,010	1,010			1,010		
4/5/08	2,020			2,020	499	49	260		260	161	161		161	1,008	1,008			1,008		
4/6/08	2,000			2,000	476	33	272		272	169	169		169	1,004	1,004			1,004		
4/7/08	2,006			2,006	432	80	250		250	180	180		180	391	391			391		
4/8/08	2,009			2,009	428	100	250		250	180	180		180	391	391			391		
4/9/08	1,425			1,425	424	150	250		250	180	180		180	391	391			391		
4/10/08	1,449			1,449	420	200	250		250	180	180		180	391	391			391		
4/11/08	1,445			1,445	416	200	250		250	180	180		180	391	391			391		
4/12/08	1,441			1,441	412	200	250		250	180	180		180	391	391			391		
4/13/08	1,437			1,437	408	200	250		250	180	180		180	391	391			391		
4/14/08	1,433			1,433	404	200	250		250	180	180		180	391	391			391		
4/15/08	1,429			1,429	400	200	250		250	250	250		250	391	391			391		
4/16/08	1,425			1,425	396	200	250		250	250	250		250	391	391			391		
4/17/08	1,491			1,491	392	200	250		250	250	250		250	391	391			391		
4/18/08	1,487			1,487	388	200	250		250	250	250		250	391	391			391		
4/19/08	1,483			1,483	384	200	250	319	81	650	250	250	250	391	391			391		
4/20/08	1,479			1,479	380	200	250	319	81	650	720	1,050	250	1,300	746	600	100	0	700	
4/21/08	1,475			1,475	376	200	250	319	81	650	720	1,050	250	1,300	746	600	100	0	700	
4/22/08	2,480	750	1.49	3,230	372	200	250	319	81	650	720	1,050	250	1,300	746	600	100	0	700	
4/23/08	2,476	750	2.98	3,226	369	200	250	469	81	800	720	1,050	250	1,300	746	600	100	0	700	
4/24/08	2,472	750	4.46	3,222	365	200	250	569	81	900	720	950	250	1,200	746	600	100	0	700	
4/25/08	2,469	750	5.95	3,219	361	200	250	619	81	950	720	850	175	1,025	746	600	100	0	700	
4/26/08	2,365	900	7.74	3,265	357	200	250	619	81	950	720	750	100	850	746	600	200	0	800	
4/27/08	2,261	925	9.57	3,186	353	200	250	669	81	1,000	720	650	100	750	746	600	400	0	1,000	
4/28/08	2,157	1,000	11.55	3,157	349	200	250	669	81	1,000	720	550	100	650	746	700	300	0	1,000	
4/29/08	2,053	1,200	13.93	3,253	345	200	250	669	81	1,000	720	500	150	650	746	1,000	0	0	1,000	
4/30/08	2,049	1,150	16.21	3,199	341	200	250	719	81	1,050	720	500	150	650	746	1,000	0	0	1,000	
5/1/08	2,295	900	18.00	3,195	337	200	250	869	81	1,200	720	500	150	650	707	1,000	0	0	1,000	
5/2/08	2,291	900	19.79	3,191	333	200	250	869	81	1,200	720	500	150	650	707	900	0	0	900	
5/3/08	2,287	950	21.67	3,237	329	200	250	869	81	1,200	720	500	150	650	707	900	0	0	900	
5/4/08	2,183	1,100	23.85	3,283	325	200	250	619	81	950	720	500	150	650	707	800	0	0	800	
5/5/08	2,179	1,100	26.03	3,279	321	200	250	569	81	900	720	1,000	300	1,300	707	500	0	0	500	
5/6/08	2,075	1,100	28.21	3,175	317	200	250	569	81	900	720	1,000	300	1,300	707	500	0	0	500	
5/7/08	2,271	1,000	30.20	3,271	313	200	250	519	81	850	720	1,000	300	1,300	707	500	0	0	500	
5/8/08	2,267	950	32.08	3,217	310	200	250	369	81	700	720	1,000	300	1,300	707	500	50	0	550	
5/9/08	2,263	950	33.97	3,213	306	200	250	319	81	650	720	1,000	300	1,300	707	500	240	0	740	
5/10/08	2,260	950	35.85	3,210	302	200	250	319	81	650	720	900	100	1,000	707	500	600	0	1,100	
5/11/08	2,256	990	37.81	3,246	298	200	250	369	81	700	720	800	100	900	707	500	700	0	1,200	
5/12/08	2,152	1,100	40.00	3,252	294	200	250	419	81	750	720	700	100	800	707	600	600	0	1,200	
5/13/08	2,048	1,200	42.38	3,248	290	200	250	769	81	1,100	720	600	100	700	707	600	600	0	1,200	
5/14/08	2,044	1,150	44.66	3,194	286	200	250	869	81	1,200	720	600	50	650	707	600	400	0	1,000	
5/15/08	1,940	1,200	47.04	3,140	282	200	250	869	81	1,200	720	550	50	600	707	1,000	0	0	1,000	
5/16/08	1,936	1,300	49.62	3,236	278	200	250	869	81	1,200	720	500	75	575	707	1,000	0	0	1,000	
5/17/08	2,282	1,000	51.60	3,282	274	200	250	869	81	1,200	720	450	100	550	707	1,000	0	0	1,000	
5/18/08	2,228	1,025	53.63	3,253	270	200	250	569	81	900	720	450	75	525	707	1,000	100	0	1,100	
5/19/08	2,174	1,050	55.72	3,224	266	200	250	269	81	600	720	400	100	500	707	1,000	100	0	1,100	
5/20/08	2,170	1,125	57.95	3,295	262	200	250			250	720	400	65	465	707	950	150	0	1,100	
5/21/08	2,116	850	59.63	2,966	258	200	250			250	350	350		350	707	707			707	
5/22/08	2,062	565	60.75	2,627	254	200	250			250	300	300		300	707	707			707	
5/23/08	1,765	0		1,765	250	200	250			250	250	250		250	707	707			707	
5/24/08	1,711	0		1,711	246	200	250			250	200	200		200	707	707			707	
5/25/08	1,657	0		1,657	242	200	250			250	150	150		150	707	707			707	
5/26/08	1,603	0		1,603	238	200	250</													

Appendix A-1, Table 7
 2008 VAMP DAILY OPERATION PLAN – APRIL 14, 2008
 (D1) LOW UNGAGED FLOW
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				SJR above Merced River 2 day lag		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	(cfs)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,820			1,820	735	-24	268			268	163	163		163	803	803			803	
3/16/08	1,850			1,850	735	-87	265			265	162	162		162	806	806			806	
3/17/08	1,880			1,880	716	-95	247			247	162	162		162	1,199	1,199			1,199	
3/18/08	1,860			1,860	713	-111	232			232	168	168		168	1,500	1,500			1,500	
3/19/08	2,010			2,010	706	-332	239			239	175	175		175	1,503	1,503			1,503	
3/20/08	2,180			2,180	703	-448	239			239	173	173		173	1,519	1,519			1,519	
3/21/08	2,210			2,210	727	-406	217			217	164	164		164	1,510	1,510			1,510	
3/22/08	2,270			2,270	719	-364	250			250	159	159		159	1,512	1,512			1,512	
3/23/08	2,350			2,350	697	-290	273			273	162	162		162	1,515	1,515			1,515	
3/24/08	2,390			2,390	674	-217	281			281	160	160		160	1,505	1,505			1,505	
3/25/08	2,330			2,330	668	-294	277			277	159	159		159	1,510	1,510			1,510	
3/26/08	2,290			2,290	615	-323	268			268	159	159		159	1,510	1,510			1,510	
3/27/08	2,350			2,350	605	-268	265			265	159	159		159	1,509	1,509			1,509	
3/28/08	2,410			2,410	530	-151	260			260	166	166		166	1,500	1,500			1,500	
3/29/08	2,430			2,430	531	-111	260			260	160	160		160	1,503	1,503			1,503	
3/30/08	2,480			2,480	513	19	268			268	160	160		160	1,503	1,503			1,503	
3/31/08	2,480			2,480	511	26	257			257	159	159		159	1,339	1,339			1,339	
4/1/08	2,380			2,380	489	-56	256			256	170	170		170	1,264	1,264			1,264	
4/2/08	2,210			2,210	491	-67	259			259	169	169		169	1,093	1,093			1,093	
4/3/08	2,160			2,160	465	-20	249			249	163	163		163	1,007	1,007			1,007	
4/4/08	2,050			2,050	474	41	258			258	158	158		158	1,010	1,010			1,010	
4/5/08	2,020			2,020	426	126	260			260	161	161		161	1,008	1,008			1,008	
4/6/08	2,000			2,000	404	109	272			272	169	169		169	1,004	1,004			1,004	
4/7/08	2,010			2,010	417	157	275			275	172	172		172	1,005	1,005			1,005	
4/8/08	1,960			1,960	412	123	268			268	171	171		171	1,001	1,001			1,001	
4/9/08	1,880			1,880	390	14	271			271	172	172		172	1,004	1,004			1,004	
4/10/08	1,850			1,850	386	-9	256			256	172	172		172	1,004	1,004			1,004	
4/11/08	1,840			1,840	363	6	260			260	178	178		178	1,164	1,164			1,164	
4/12/08	1,820			1,820	339	-13	271			271	180	180		180	1,250	1,250			1,250	
4/13/08	1,960			1,960	321	-1	278			278	180	180		180	1,250	1,250			1,250	
4/14/08	2,050			2,050	328	21	274			274	177	177		177	1,250	1,250			1,250	
4/15/08	2,010			2,010	346	-12	266			266	165	165		165	1,385	1,385			1,385	
4/16/08	2,010			2,010	348	-23	259			259	163	163		163	1,500	1,500			1,500	
4/17/08	2,170			2,170	312	0	250			250	250	250		250	1,500	1,500			1,500	
4/18/08	2,277			2,277	308	0	250			250	250	250		250	1,500	1,500			1,500	
4/19/08	2,321			2,321	304	0	250	0	0	250	250	250		250	1,500	1,500			1,500	
4/20/08	2,308			2,308	300	0	250	0	0	250	650	850	0	850	745	620	0	0	620	
4/21/08	2,304			2,304	297	0	250	0	0	250	650	850	0	850	745	620	0	0	620	
4/22/08	2,020	0	0.00	2,020	293	0	250	0	0	250	650	850	0	850	745	620	0	0	620	
4/23/08	2,017	0	0.00	2,017	290	0	250	0	0	250	650	850	0	850	745	620	0	0	620	
4/24/08	2,013	0	0.00	2,013	286	0	250	150	0	400	650	850	0	850	745	620	0	0	620	
4/25/08	2,010	0	0.00	2,010	283	0	250	200	0	450	650	700	0	700	745	620	0	0	620	
4/26/08	2,006	0	0.00	2,006	279	0	250	250	0	500	650	625	0	625	745	620	0	0	620	
4/27/08	1,853	150	0.30	2,003	276	0	250	200	0	450	650	525	0	525	745	620	0	0	620	
4/28/08	1,774	200	0.69	1,974	272	0	250	50	0	300	650	500	0	500	745	720	0	0	720	
4/29/08	1,671	250	1.19	1,921	269	0	250	0	0	250	650	500	0	500	745	1,020	0	0	1,020	
4/30/08	1,742	200	1.59	1,942	265	0	250	0	0	250	650	500	0	500	745	1,020	0	0	1,020	
5/1/08	2,039	50	1.69	2,089	262	0	250	0	0	250	650	500	0	500	745	1,020	0	0	1,020	
5/2/08	2,035	0	1.69	2,035	258	0	250	0	0	250	650	500	0	500	745	1,000	0	0	1,000	
5/3/08	2,032	0	1.69	2,032	255	0	250	50	0	300	650	500	0	500	745	950	0	0	950	
5/4/08	2,008	0	1.69	2,008	251	0	250	100	0	350	650	600	0	600	745	820	0	0	820	
5/5/08	1,955	0	1.69	1,955	248	0	250	100	0	350	650	900	0	900	745	520	0	0	520	
5/6/08	1,921	50	1.79	1,971	244	0	250	100	0	350	650	900	0	900	745	520	0	0	520	
5/7/08	1,918	100	1.98	2,018	241	0	250	100	0	350	650	900	0	900	745	520	0	0	520	
5/8/08	1,914	100	2.18	2,014	237	0	250	100	0	350	650	900	0	900	745	520	0	0	520	
5/9/08	1,911	100	2.38	2,011	234	0	250	100	0	350	650	900	0	900	745	520	0	0	520	
5/10/08	1,907	100	2.58	2,007	230	0	250	200	0	450	650	900	0	900	745	520	0	0	520	
5/11/08	1,904	100	2.78	2,004	227	0	250	250	0	500	650	800	0	800	745	520	0	0	520	
5/12/08	1,900	100	2.98	2,000	223	0	250	300	0	550	650	700	0	700	745	620	0	0	620	
5/13/08	1,797	200	3.37	1,997	220	0	250	300	0	550	650	600	0	600	745	620	0	0	620	
5/14/08	1,793	250	3.87	2,043	216	0	250	150	0	400	650	500	0	500	745	620	0	0	620	
5/15/08	1,690	300	4.46	1,990	213	0	250	150	0	400	650	450	0	450	745	1,020	0	0	1,020	
5/16/08	1,586	300	5.06	1,886	209	0	250	150	0	400	650	400	0	400	745	1,020	0	0	1,020	
5/17/08	1,933	150	5.36	2,083	206	0	250	150	0	400	650	400	0	400	745	1,020	0	0	1,020	
5/18/08	1,879	150	5.65	2,029	202	0	250	100	0	350	650	400	0	400	745	1,020	0	0	1,020	
5/19/08	1,876	150	5.95	2,026	199	0	250	100	0	350	650	400	0	400	745	1,020	0	0	1,020	
5/20/08	1,872	150	6.25	2,022	195	0	250			250	650	400	0	400	745	970	0	0	970	
5/21/08	1,869	100	6.45	1,969	191	0	250			250	350	350		350	737	737			737	
5/22/08	1,815	100	6.64	1,915	187	0	250			250	300	300		300	737	737			737	
5/23/08	1,528	0		1,528	183	0	250			250	250	250		250	737	737			737	
5/24/08	1,474	0		1,474	179	0	250			250	200	200		200	737	737			737	
5/25/08	1,420	0		1,420	175	0	250			250	150	150		150	737	737			737	
5/26/08	1,366	0		1,366	171	0	250			250	150	150		150	737	737			737	
5/27/08	1,312	0		1,312	167	0	250			250	150	150		150	737	737			737	
5/28/08	1,308	0		1,308	163	0	250			250	150	150		150	737	737			737	
5/29/08	1,304	0		1,304	159	0														

Appendix A-1, Table 8
 2008 VAMP DAILY OPERATION PLAN – APRIL 14, 2008
 (D2) HIGH UNGAGED FLOW
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				Merced River at Cressey		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced River 2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow- reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,820			1,820	781	-64	268		268	163	163		163	803	803			803		
3/16/08	1,850			1,850	785	-127	265		265	162	162		162	806	806			806		
3/17/08	1,880			1,880	763	-141	247		247	162	162		162	1,199	1,199			1,199		
3/18/08	1,860			1,860	762	-161	232		232	168	168		168	1,500	1,500			1,500		
3/19/08	2,010			2,010	757	-379	239		239	175	175		175	1,503	1,503			1,503		
3/20/08	2,180			2,180	755	-497	239		239	173	173		173	1,519	1,519			1,519		
3/21/08	2,210			2,210	783	-457	217		217	164	164		164	1,510	1,510			1,510		
3/22/08	2,270			2,270	777	-416	250		250	159	159		159	1,512	1,512			1,512		
3/23/08	2,350			2,350	757	-346	273		273	162	162		162	1,515	1,515			1,515		
3/24/08	2,390			2,390	738	-275	281		281	160	160		160	1,505	1,505			1,505		
3/25/08	2,330			2,330	733	-354	277		277	159	159		159	1,510	1,510			1,510		
3/26/08	2,290			2,290	681	-386	268		268	159	159		159	1,510	1,510			1,510		
3/27/08	2,350			2,350	671	-333	265		265	159	159		159	1,509	1,509			1,509		
3/28/08	2,410			2,410	597	-217	260		260	166	166		166	1,500	1,500			1,500		
3/29/08	2,430			2,430	598	-177	260		260	160	160		160	1,503	1,503			1,503		
3/30/08	2,480			2,480	583	-48	268		268	160	160		160	1,503	1,503			1,503		
3/31/08	2,480			2,480	583	-41	257		257	159	159		159	1,339	1,339			1,339		
4/1/08	2,380			2,380	563	-126	256		256	170	170		170	1,264	1,264			1,264		
4/2/08	2,210			2,210	566	-139	259		259	169	169		169	1,093	1,093			1,093		
4/3/08	2,160			2,160	542	-94	249		249	163	163		163	1,007	1,007			1,007		
4/4/08	2,050			2,050	550	-34	258		258	158	158		158	1,010	1,010			1,010		
4/5/08	2,020			2,020	499	49	260		260	161	161		161	1,008	1,008			1,008		
4/6/08	2,000			2,000	476	33	272		272	169	169		169	1,004	1,004			1,004		
4/7/08	2,010			2,083	417	157	275		275	172	172		172	1,005	1,005			1,005		
4/8/08	1,960			2,032	412	123	268		268	171	171		171	1,001	1,001			1,001		
4/9/08	1,880			1,880	390	14	271		271	172	172		172	1,004	1,004			1,004		
4/10/08	1,850			1,850	386	-9	256		256	172	172		172	1,004	1,004			1,004		
4/11/08	1,840			1,840	363	6	260		260	178	178		178	1,164	1,164			1,164		
4/12/08	1,820			1,820	339	-13	271		271	180	180		180	1,250	1,250			1,250		
4/13/08	1,960			1,960	321	-1	278		278	180	180		180	1,250	1,250			1,250		
4/14/08	2,050			2,050	328	21	274		274	177	177		177	1,250	1,250			1,250		
4/15/08	2,010			2,010	346	-12	266		266	165	165		165	1,385	1,385			1,385		
4/16/08	2,010			2,010	348	-23	259		259	163	163		163	1,500	1,500			1,500		
4/17/08	2,320			2,320	312	150	250		250	250	250		250	1,500	1,500			1,500		
4/18/08	2,477			2,477	308	200	250		250	250	250		250	1,500	1,500			1,500		
4/19/08	2,521			2,521	304	200	250	0	0	250	250		250	1,500	1,500			1,500		
4/20/08	2,508			2,508	300	200	250	0	0	250	650	950	250	1,200	745	1,020	280	0	1,300	
4/21/08	2,504			2,504	297	200	250	0	0	250	650	950	250	1,200	745	1,020	280	0	1,300	
4/22/08	2,720	530	1.05	3,250	293	200	250	50	0	300	650	950	250	1,200	745	1,020	280	0	1,300	
4/23/08	2,717	530	2.10	3,247	290	200	250	265	135	650	650	950	250	1,200	745	1,000	250	0	1,250	
4/24/08	2,713	530	3.15	3,243	286	200	250	565	135	950	650	850	250	1,100	745	950	0	0	950	
4/25/08	2,690	550	4.24	3,240	283	200	250	915	135	1,300	650	750	175	925	745	820	30	0	850	
4/26/08	2,536	650	5.53	3,186	279	200	250	1,015	135	1,400	650	650	100	750	745	620	80	0	700	
4/27/08	2,303	905	7.33	3,208	276	200	250	1,015	135	1,400	650	550	100	650	745	620	80	0	700	
4/28/08	1,999	1,230	9.77	3,229	272	200	250	1,015	135	1,400	650	500	150	650	745	620	80	0	700	
4/29/08	1,896	1,330	12.41	3,226	269	200	250	1,015	135	1,400	650	500	150	650	745	620	80	0	700	
4/30/08	1,842	1,380	15.14	3,222	265	200	250	1,015	135	1,400	650	500	150	650	745	620	80	0	700	
5/1/08	1,839	1,380	17.88	3,219	262	200	250	1,015	135	1,400	650	500	150	650	745	620	80	0	700	
5/2/08	1,835	1,380	20.62	3,215	258	200	250	1,015	135	1,400	650	500	150	650	745	620	80	0	700	
5/3/08	1,832	1,380	23.36	3,212	255	200	250	915	135	1,300	650	500	150	650	745	620	80	0	700	
5/4/08	1,828	1,380	26.09	3,208	251	200	250	615	135	1,000	650	500	150	650	745	620	80	0	700	
5/5/08	1,825	1,380	28.83	3,205	248	200	250	515	135	900	650	900	300	1,200	745	520	180	0	700	
5/6/08	1,821	1,280	31.37	3,101	244	200	250	465	135	850	650	900	300	1,200	745	520	180	0	700	
5/7/08	2,118	1,230	33.81	3,348	241	200	250	365	135	750	650	900	300	1,200	745	520	180	0	700	
5/8/08	2,114	1,130	36.05	3,244	237	200	250	365	135	750	650	900	300	1,200	745	520	280	0	800	
5/9/08	2,111	1,080	38.19	3,191	234	200	250	365	135	750	650	900	300	1,200	745	520	470	0	990	
5/10/08	2,107	1,080	40.33	3,187	230	200	250	415	135	800	650	800	100	900	745	520	680	0	1,200	
5/11/08	2,104	1,270	42.85	3,374	227	200	250	515	135	900	650	700	100	800	745	520	680	0	1,200	
5/12/08	2,000	1,280	45.39	3,280	223	200	250	565	135	950	650	600	100	700	745	620	580	0	1,200	
5/13/08	1,897	1,330	48.03	3,227	220	200	250	715	135	1,100	650	500	100	600	745	620	580	0	1,200	
5/14/08	1,893	1,330	50.67	3,223	216	200	250	715	135	1,100	650	500	50	550	745	620	580	0	1,200	
5/15/08	1,790	1,380	53.40	3,170	213	200	250	715	135	1,100	650	450	50	500	745	1,020	180	0	1,200	
5/16/08	1,786	1,480	56.34	3,266	209	200	250	715	135	1,100	650	400	75	475	745	1,020	180	0	1,200	
5/17/08	2,133	1,080	58.48	3,213	206	200	250	715	135	1,100	650	400	75	475	745	1,020	180	0	1,200	
5/18/08	2,079	1,105	60.67	3,184	202	200	250	565	135	950	650	400	75	475	745	1,020	180	0	1,200	
5/19/08	2,076	1,105	62.87	3,181	199	200	250	260	135	645	650	400	75	475	745	1,020	180	0	1,200	
5/20/08	2,072	1,105	65.06	3,177	195	200	250	250		250	650	400	65	465	745	970	230	0	1,200	
5/21/08	2,069	955	66.95	3,024	191	200	250	250		250	350	350		350	737	737			737	
5/22/08	2,015	690	68.32	2,705	187	200	250	250		250	300	300		300	737	737			737	
5/23/08	1,728	0		1,728	183	200	250	250		250	250	250		250	737	737			737	
5/24/08	1,674	0		1,674	179	200	250	250		250	200	200		200	737	737			737	
5/25/08	1,620	0		1,620	175	200	250	250		250	150									

Appendix A-1, Table 9
 2008 VAMP DAILY OPERATION PLAN – APRIL 14, 2008
 (E1) LOW UNGAGED FLOW
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				Merced River at Cressey		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced River 2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,820			1,820	735	-24	268			268	163	163		163	803	803			803	
3/16/08	1,850			1,850	735	-87	265			265	162	162		162	806	806			806	
3/17/08	1,880			1,880	716	-95	247			247	162	162		162	1,199	1,199			1,199	
3/18/08	1,860			1,860	713	-111	232			232	168	168		168	1,500	1,500			1,500	
3/19/08	2,010			2,010	706	-332	239			239	175	175		175	1,503	1,503			1,503	
3/20/08	2,180			2,180	703	-448	239			239	173	173		173	1,519	1,519			1,519	
3/21/08	2,210			2,210	727	-406	217			217	164	164		164	1,510	1,510			1,510	
3/22/08	2,270			2,270	719	-364	250			250	159	159		159	1,512	1,512			1,512	
3/23/08	2,350			2,350	697	-290	273			273	162	162		162	1,515	1,515			1,515	
3/24/08	2,390			2,390	674	-217	281			281	160	160		160	1,505	1,505			1,505	
3/25/08	2,330			2,330	668	-294	277			277	159	159		159	1,510	1,510			1,510	
3/26/08	2,290			2,290	615	-323	268			268	159	159		159	1,510	1,510			1,510	
3/27/08	2,350			2,350	605	-268	265			265	159	159		159	1,509	1,509			1,509	
3/28/08	2,410			2,410	530	-151	260			260	166	166		166	1,500	1,500			1,500	
3/29/08	2,430			2,430	531	-111	260			260	160	160		160	1,503	1,503			1,503	
3/30/08	2,480			2,480	513	19	268			268	160	160		160	1,503	1,503			1,503	
3/31/08	2,480			2,480	511	26	257			257	159	159		159	1,339	1,339			1,339	
4/1/08	2,380			2,380	489	-56	256			256	170	170		170	1,264	1,264			1,264	
4/2/08	2,210			2,210	491	-67	259			259	169	169		169	1,093	1,093			1,093	
4/3/08	2,160			2,160	465	-20	249			249	163	163		163	1,007	1,007			1,007	
4/4/08	2,050			2,050	474	41	258			258	158	158		158	1,010	1,010			1,010	
4/5/08	2,020			2,020	426	126	260			260	161	161		161	1,008	1,008			1,008	
4/6/08	2,000			2,000	404	109	272			272	169	169		169	1,004	1,004			1,004	
4/7/08	2,010			2,010	417	157	275			275	172	172		172	1,005	1,005			1,005	
4/8/08	1,960			1,960	412	123	268			268	171	171		171	1,001	1,001			1,001	
4/9/08	1,880			1,880	390	14	271			271	172	172		172	1,004	1,004			1,004	
4/10/08	1,850			1,850	386	-9	256			256	172	172		172	1,004	1,004			1,004	
4/11/08	1,840			1,840	363	6	260			260	178	178		178	1,164	1,164			1,164	
4/12/08	1,820			1,820	339	-13	271			271	180	180		180	1,250	1,250			1,250	
4/13/08	1,960			1,960	321	-1	278			278	180	180		180	1,250	1,250			1,250	
4/14/08	2,050			2,050	328	21	274			274	177	177		177	1,250	1,250			1,250	
4/15/08	2,010			2,010	346	-12	266			266	165	165		165	1,385	1,385			1,385	
4/16/08	2,010			2,010	348	-23	259			259	163	163		163	1,500	1,500			1,500	
4/17/08	2,170			2,170	312	0	250			250	250	250		250	1,500	1,500			1,500	
4/18/08	2,277			2,277	308	0	250			250	250	250		250	1,500	1,500			1,500	
4/19/08	2,321			2,321	304	0	250	0	0	250	250	250		250	1,500	1,500			1,500	
4/20/08	2,308			2,308	300	0	250	0	0	250	650	850	0	850	745	620	0	0	620	
4/21/08	2,304			2,304	297	0	250	0	0	250	650	850	0	850	745	620	0	0	620	
4/22/08	2,020	0	0.00	2,020	293	0	250	0	0	250	650	850	0	850	745	620	0	0	620	
4/23/08	2,017	0	0.00	2,017	290	0	250	0	0	250	650	850	0	850	745	620	0	0	620	
4/24/08	2,013	0	0.00	2,013	286	0	250	150	0	400	650	850	0	850	745	620	0	0	620	
4/25/08	2,010	0	0.00	2,010	283	0	250	200	0	450	650	700	0	700	745	620	0	0	620	
4/26/08	2,006	0	0.00	2,006	279	0	250	250	0	500	650	625	0	625	745	620	0	0	620	
4/27/08	1,853	150	0.30	2,003	276	0	250	200	0	450	650	525	0	525	745	620	0	0	620	
4/28/08	1,774	200	0.69	1,974	272	0	250	50	0	300	650	500	0	500	745	720	0	0	720	
4/29/08	1,671	250	1.19	1,921	269	0	250	0	0	250	650	500	0	500	745	1,020	0	0	1,020	
4/30/08	1,742	200	1.59	1,942	265	0	250	0	0	250	650	500	0	500	745	1,020	0	0	1,020	
5/1/08	2,039	50	1.69	2,089	262	0	250	0	0	250	650	500	0	500	745	1,020	0	0	1,020	
5/2/08	2,035	0	1.69	2,035	258	0	250	0	0	250	650	500	0	500	745	1,000	0	0	1,000	
5/3/08	2,032	0	1.69	2,032	255	0	250	50	0	300	650	500	0	500	745	950	0	0	950	
5/4/08	2,008	0	1.69	2,008	251	0	250	100	0	350	650	600	0	600	745	820	0	0	820	
5/5/08	1,955	0	1.69	1,955	248	0	250	100	0	350	650	900	0	900	745	520	0	0	520	
5/6/08	1,921	50	1.79	1,971	244	0	250	100	0	350	650	900	0	900	745	520	0	0	520	
5/7/08	1,918	100	1.98	2,018	241	0	250	100	0	350	650	900	0	900	745	520	0	0	520	
5/8/08	1,914	100	2.18	2,014	237	0	250	100	0	350	650	900	0	900	745	520	0	0	520	
5/9/08	1,911	100	2.38	2,011	234	0	250	100	0	350	650	900	0	900	745	520	0	0	520	
5/10/08	1,907	100	2.58	2,007	230	0	250	200	0	450	650	900	0	900	745	520	0	0	520	
5/11/08	1,904	100	2.78	2,004	227	0	250	250	0	500	650	800	0	800	745	520	0	0	520	
5/12/08	1,900	100	2.98	2,000	223	0	250	300	0	550	650	700	0	700	745	620	0	0	620	
5/13/08	1,797	200	3.37	1,997	220	0	250	300	0	550	650	600	0	600	745	620	0	0	620	
5/14/08	1,793	250	3.87	2,043	216	0	250	150	0	400	650	500	0	500	745	620	0	0	620	
5/15/08	1,690	300	4.46	1,990	213	0	250	150	0	400	650	450	0	450	745	1,020	0	0	1,020	
5/16/08	1,586	300	5.06	1,886	209	0	250	150	0	400	650	400	0	400	745	1,020	0	0	1,020	
5/17/08	1,933	150	5.36	2,083	206	0	250	150	0	400	650	400	0	400	745	1,020	0	0	1,020	
5/18/08	1,879	150	5.65	2,029	202	0	250	100	0	350	650	400	0	400	745	1,020	0	0	1,020	
5/19/08	1,876	150	5.95	2,026	199	0	250	100	0	350	650	400	0	400	745	1,020	0	0	1,020	
5/20/08	1,872	150	6.25	2,022	195	0	250			250	650	400	0	400	745	970	0	0	970	
5/21/08	1,869	100	6.45	1,969	191	0	250			250	350	350		350	737	737			737	
5/22/08	1,815	100	6.64	1,915	187	0	250			250	300	300		300	737	737			737	
5/23/08	1,528	0		1,528	183	0	250			250	250	250		250	737	737			737	
5/24/08	1,474	0		1,474	179	0	250			250	200	200		200	737	737			737	
5/25/08	1,420	0		1,420	175	0	250			250	150	150		150	737	737			737	
5/26/08	1,366	0		1,366	171	0	250			250	150	150		150	737	737			737	
5/27/08	1,312	0		1,312	167	0	250			250	150	150		150	737	737			737	
5/28/08	1,308	0		1,308	163	0	250			250	150	150		150	737	737			737	
5/29/08	1,304	0		1,304	159	0														

Appendix A-1, Table 10
 2008 VAMP DAILY OPERATION PLAN – APRIL 14, 2008
 (E2) HIGH UNGAGED FLOW
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				Merced River at Cressey		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced River 2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow- reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,820			1,820	781	-64	268		268	163	163		163	803	803			803		
3/16/08	1,850			1,850	785	-127	265		265	162	162		162	806	806			806		
3/17/08	1,880			1,880	763	-141	247		247	162	162		162	1,199	1,199			1,199		
3/18/08	1,860			1,860	762	-161	232		232	168	168		168	1,500	1,500			1,500		
3/19/08	2,010			2,010	757	-379	239		239	175	175		175	1,503	1,503			1,503		
3/20/08	2,180			2,180	755	-497	239		239	173	173		173	1,519	1,519			1,519		
3/21/08	2,210			2,210	783	-457	217		217	164	164		164	1,510	1,510			1,510		
3/22/08	2,270			2,270	777	-416	250		250	159	159		159	1,512	1,512			1,512		
3/23/08	2,350			2,350	757	-346	273		273	162	162		162	1,515	1,515			1,515		
3/24/08	2,390			2,390	738	-275	281		281	160	160		160	1,505	1,505			1,505		
3/25/08	2,330			2,330	733	-354	277		277	159	159		159	1,510	1,510			1,510		
3/26/08	2,290			2,290	681	-386	268		268	159	159		159	1,510	1,510			1,510		
3/27/08	2,350			2,350	671	-333	265		265	159	159		159	1,509	1,509			1,509		
3/28/08	2,410			2,410	597	-217	260		260	166	166		166	1,500	1,500			1,500		
3/29/08	2,430			2,430	598	-177	260		260	160	160		160	1,503	1,503			1,503		
3/30/08	2,480			2,480	583	-48	268		268	160	160		160	1,503	1,503			1,503		
3/31/08	2,480			2,480	583	-41	257		257	159	159		159	1,339	1,339			1,339		
4/1/08	2,380			2,380	563	-126	256		256	170	170		170	1,264	1,264			1,264		
4/2/08	2,210			2,210	566	-139	259		259	169	169		169	1,093	1,093			1,093		
4/3/08	2,160			2,160	542	-94	249		249	163	163		163	1,007	1,007			1,007		
4/4/08	2,050			2,050	550	-34	258		258	158	158		158	1,010	1,010			1,010		
4/5/08	2,020			2,020	499	49	260		260	161	161		161	1,008	1,008			1,008		
4/6/08	2,000			2,000	476	33	272		272	169	169		169	1,004	1,004			1,004		
4/7/08	2,010			2,083	417	157	275		275	172	172		172	1,005	1,005			1,005		
4/8/08	1,960			2,032	412	123	268		268	171	171		171	1,001	1,001			1,001		
4/9/08	1,880			1,880	390	14	271		271	172	172		172	1,004	1,004			1,004		
4/10/08	1,850			1,850	386	-9	256		256	172	172		172	1,004	1,004			1,004		
4/11/08	1,840			1,840	363	6	260		260	178	178		178	1,164	1,164			1,164		
4/12/08	1,820			1,820	339	-13	271		271	180	180		180	1,250	1,250			1,250		
4/13/08	1,960			1,960	321	-1	278		278	180	180		180	1,250	1,250			1,250		
4/14/08	2,050			2,050	328	21	274		274	177	177		177	1,250	1,250			1,250		
4/15/08	2,010			2,010	346	-12	266		266	165	165		165	1,385	1,385			1,385		
4/16/08	2,010			2,010	348	-23	259		259	163	163		163	1,500	1,500			1,500		
4/17/08	2,320			2,320	312	150	250		250	250	250		250	1,500	1,500			1,500		
4/18/08	2,477			2,477	308	200	250		250	250	250		250	1,500	1,500			1,500		
4/19/08	2,521			2,521	304	200	250	0	0	250	250		250	1,500	1,500			1,500		
4/20/08	2,508			2,508	300	200	250	0	0	250	650	950	250	1,200	745	1,020	280	0	1,300	
4/21/08	2,504			2,504	297	200	250	0	0	250	650	950	250	1,200	745	1,020	280	0	1,300	
4/22/08	2,720	530	1.05	3,250	293	200	250	50	0	300	650	950	250	1,200	745	1,020	280	0	1,300	
4/23/08	2,717	530	2.10	3,247	290	200	250	265	135	650	650	950	250	1,200	745	1,000	250	0	1,250	
4/24/08	2,713	530	3.15	3,243	286	200	250	565	135	950	650	850	250	1,100	745	950	0	0	950	
4/25/08	2,690	550	4.24	3,240	283	200	250	915	135	1,300	650	750	175	925	745	820	30	0	850	
4/26/08	2,536	650	5.53	3,186	279	200	250	1,015	135	1,400	650	650	100	750	745	620	80	0	700	
4/27/08	2,303	905	7.33	3,208	276	200	250	1,015	135	1,400	650	550	100	650	745	620	80	0	700	
4/28/08	1,999	1,230	9.77	3,229	272	200	250	1,015	135	1,400	650	500	150	650	745	620	80	0	700	
4/29/08	1,896	1,330	12.41	3,226	269	200	250	1,015	135	1,400	650	500	150	650	745	620	80	0	700	
4/30/08	1,842	1,380	15.14	3,222	265	200	250	1,015	135	1,400	650	500	150	650	745	620	80	0	700	
5/1/08	1,839	1,380	17.88	3,219	262	200	250	1,015	135	1,400	650	500	150	650	745	620	80	0	700	
5/2/08	1,835	1,380	20.62	3,215	258	200	250	1,015	135	1,400	650	500	150	650	745	620	80	0	700	
5/3/08	1,832	1,380	23.36	3,212	255	200	250	915	135	1,300	650	500	150	650	745	620	80	0	700	
5/4/08	1,828	1,380	26.09	3,208	251	200	250	615	135	1,000	650	500	150	650	745	620	80	0	700	
5/5/08	1,825	1,380	28.83	3,205	248	200	250	515	135	900	650	900	300	1,200	745	520	180	0	700	
5/6/08	1,821	1,280	31.37	3,101	244	200	250	465	135	850	650	900	300	1,200	745	520	180	0	700	
5/7/08	2,118	1,230	33.81	3,348	241	200	250	365	135	750	650	900	300	1,200	745	520	180	0	700	
5/8/08	2,114	1,130	36.05	3,244	237	200	250	365	135	750	650	900	300	1,200	745	520	280	0	800	
5/9/08	2,111	1,080	38.19	3,191	234	200	250	365	135	750	650	900	300	1,200	745	520	470	0	990	
5/10/08	2,107	1,080	40.33	3,187	230	200	250	415	135	800	650	800	100	900	745	520	680	0	1,200	
5/11/08	2,104	1,270	42.85	3,374	227	200	250	515	135	900	650	700	100	800	745	520	680	0	1,200	
5/12/08	2,000	1,280	45.39	3,280	223	200	250	565	135	950	650	600	100	700	745	620	580	0	1,200	
5/13/08	1,897	1,330	48.03	3,227	220	200	250	715	135	1,100	650	500	100	600	745	620	580	0	1,200	
5/14/08	1,893	1,330	50.67	3,223	216	200	250	715	135	1,100	650	500	50	550	745	620	580	0	1,200	
5/15/08	1,790	1,380	53.40	3,170	213	200	250	715	135	1,100	650	450	50	500	745	1,020	180	0	1,200	
5/16/08	1,786	1,480	56.34	3,266	209	200	250	715	135	1,100	650	400	75	475	745	1,020	180	0	1,200	
5/17/08	2,133	1,080	58.48	3,213	206	200	250	715	135	1,100	650	400	75	475	745	1,020	180	0	1,200	
5/18/08	2,079	1,105	60.67	3,184	202	200	250	565	135	950	650	400	75	475	745	1,020	180	0	1,200	
5/19/08	2,076	1,105	62.87	3,181	199	200	250	260	135	645	650	400	75	475	745	1,020	180	0	1,200	
5/20/08	2,072	1,105	65.06	3,177	195	200	250	250	250	250	650	400	65	465	745	970	230	0	1,200	
5/21/08	2,069	955	66.95	3,024	191	200	250	250	250	250	350	350		350	737	737			737	
5/22/08	2,015	690	68.32	2,705	187	200	250	250	250	250	300	300		300	737	737			737	
5/23/08	1,728	0		1,728	183	200	250	250	250	250	250	250		250	737	737			737	
5/24/08	1,674	0		1,674	179	200	250	250	250	200	200	200		200	737	737			737	
5/25/08	1,620	0		1,620	175	200	250	250</												

Appendix A-1, Table 11
 2008 VAMP DAILY OPERATION PLAN – APRIL 18, 2008
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				SJR above Merced River 2 day lag)		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	(cfs)	(cfs)	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,820			1,820	781	-64	268			268	163	163		163	803	803			803	
3/16/08	1,850			1,850	785	-127	265			265	162	162		162	806	806			806	
3/17/08	1,880			1,880	763	-141	247			247	162	162		162	1,199	1,199			1,199	
3/18/08	1,860			1,860	762	-161	232			232	168	168		168	1,500	1,500			1,500	
3/19/08	2,010			2,010	757	-379	239			239	175	175		175	1,503	1,503			1,503	
3/20/08	2,180			2,180	755	-497	239			239	173	173		173	1,519	1,519			1,519	
3/21/08	2,210			2,210	783	-457	217			217	164	164		164	1,510	1,510			1,510	
3/22/08	2,270			2,270	777	-416	250			250	159	159		159	1,512	1,512			1,512	
3/23/08	2,350			2,350	757	-346	273			273	162	162		162	1,515	1,515			1,515	
3/24/08	2,390			2,390	738	-275	281			281	160	160		160	1,505	1,505			1,505	
3/25/08	2,330			2,330	733	-354	277			277	159	159		159	1,510	1,510			1,510	
3/26/08	2,290			2,290	681	-386	268			268	159	159		159	1,510	1,510			1,510	
3/27/08	2,350			2,350	671	-333	265			265	159	159		159	1,509	1,509			1,509	
3/28/08	2,410			2,410	597	-217	260			260	166	166		166	1,500	1,500			1,500	
3/29/08	2,430			2,430	598	-177	260			260	160	160		160	1,503	1,503			1,503	
3/30/08	2,480			2,480	583	-48	268			268	160	160		160	1,503	1,503			1,503	
3/31/08	2,480			2,480	583	-41	257			257	159	159		159	1,339	1,339			1,339	
4/1/08	2,380			2,380	563	-126	256			256	170	170		170	1,264	1,264			1,264	
4/2/08	2,210			2,210	566	-139	259			259	169	169		169	1,093	1,093			1,093	
4/3/08	2,160			2,160	542	-94	249			249	163	163		163	1,007	1,007			1,007	
4/4/08	2,050			2,050	550	-34	258			258	158	158		158	1,010	1,010			1,010	
4/5/08	2,020			2,020	499	49	260			260	161	161		161	1,008	1,008			1,008	
4/6/08	2,000			2,000	476	33	272			272	169	169		169	1,004	1,004			1,004	
4/7/08	2,010			2,083	417	157	275			275	172	172		172	1,005	1,005			1,005	
4/8/08	1,960			2,032	412	123	268			268	171	171		171	1,001	1,001			1,001	
4/9/08	1,880			1,880	390	14	271			271	172	172		172	1,004	1,004			1,004	
4/10/08	1,850			1,850	386	-9	256			256	172	172		172	1,004	1,004			1,004	
4/11/08	1,840			1,840	363	6	260			260	178	178		178	1,164	1,164			1,164	
4/12/08	1,820			1,820	339	-13	271			271	180	180		180	1,250	1,250			1,250	
4/13/08	1,960			1,960	321	-1	278			278	180	180		180	1,250	1,250			1,250	
4/14/08	2,050			2,050	328	21	274			274	177	177		177	1,250	1,250			1,250	
4/15/08	2,010			2,010	346	-12	266			266	165	165		165	1,385	1,385			1,385	
4/16/08	2,010			2,010	348	-23	259			259	163	163		163	1,500	1,500			1,500	
4/17/08	2,150			2,150	325	-20	257			257	164	164		164	1,520	1,520			1,520	
4/18/08	2,277			2,277	320	0	250			250	150	150		150	1,500	1,500			1,500	
4/19/08	2,268			2,268	316	0	250	0	0	250	150	150		150	1,500	1,500			1,500	
4/20/08	2,227			2,227	312	0	250	0	0	250	751	1,100	200	1,300	745	1,020	330	0	1,350	
4/21/08	2,216			2,216	308	0	250	0	0	250	751	1,100	200	1,300	745	1,020	330	0	1,350	
4/22/08	2,682	530	1.05	3,212	305	0	250	50	0	300	751	1,100	200	1,300	745	1,020	330	0	1,350	
4/23/08	2,678	530	2.10	3,208	301	0	250	265	135	650	751	1,100	200	1,300	745	1,000	350	0	1,350	
4/24/08	2,675	530	3.15	3,205	298	0	250	565	135	950	751	1,100	200	1,300	745	950	0	0	950	
4/25/08	2,651	600	4.34	3,251	294	0	250	915	135	1,300	751	900	200	1,100	745	820	30	0	850	
4/26/08	2,598	600	5.53	3,198	291	0	250	1,065	135	1,450	751	750	200	950	745	620	30	0	650	
4/27/08	2,264	930	7.38	3,194	287	0	250	1,065	135	1,450	751	650	200	850	745	620	30	0	650	
4/28/08	1,911	1,280	9.92	3,191	283	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
4/29/08	1,807	1,430	12.75	3,237	280	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
4/30/08	1,703	1,530	15.79	3,233	276	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
5/1/08	1,700	1,530	18.82	3,230	273	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
5/2/08	1,696	1,530	21.86	3,226	269	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
5/3/08	1,693	1,530	24.89	3,223	266	0	250	965	135	1,350	751	550	300	850	745	620	30	0	650	
5/4/08	1,689	1,530	27.93	3,219	262	0	250	725	135	1,110	751	550	435	985	745	620	30	0	650	
5/5/08	1,686	1,530	30.96	3,216	259	0	250	615	135	1,000	751	1,100	200	1,300	745	520	130	0	650	
5/6/08	1,682	1,565	34.07	3,247	255	0	250	515	135	900	751	1,100	200	1,300	745	520	130	0	650	
5/7/08	2,129	1,190	36.43	3,319	251	0	250	415	135	800	751	1,100	200	1,300	745	520	230	0	750	
5/8/08	2,125	1,080	38.57	3,205	248	0	250	365	135	750	751	1,100	200	1,300	745	520	330	0	850	
5/9/08	2,121	1,080	40.71	3,201	244	0	250	365	135	750	751	1,100	200	1,300	745	520	395	0	915	
5/10/08	2,118	1,080	42.85	3,198	241	0	250	465	135	850	751	900	100	1,000	745	520	705	0	1,225	
5/11/08	2,114	1,095	45.02	3,209	237	0	250	565	135	950	751	750	150	900	745	520	705	0	1,225	
5/12/08	1,911	1,305	47.61	3,216	234	0	250	565	135	950	751	650	150	800	745	620	605	0	1,225	
5/13/08	1,757	1,455	50.50	3,212	230	0	250	615	135	1,000	751	550	250	800	745	620	605	0	1,225	
5/14/08	1,754	1,455	53.39	3,209	226	0	250	615	135	1,000	751	550	250	800	745	620	605	0	1,225	
5/15/08	1,650	1,555	56.47	3,205	223	0	250	615	135	1,000	751	550	250	800	745	1,020	205	0	1,225	
5/16/08	1,646	1,605	59.65	3,251	219	0	250	615	135	1,000	751	550	250	800	745	1,020	205	0	1,225	
5/17/08	2,043	1,205	62.04	3,248	216	0	250	615	135	1,000	751	550	250	800	745	1,020	205	0	1,225	
5/18/08	2,039	1,205	64.43	3,244	212	0	250	615	135	1,000	751	450	275	725	745	1,020	205	0	1,225	
5/19/08	2,036	1,205	66.82	3,241	209	0	250	280	170	700	751	350	300	650	745	1,020	205	0	1,225	
5/20/08	1,932	1,230	69.26	3,162	205	0	250			250	751	275	300	575	745	970	255	0	1,225	
5/21/08	1,829	1,255	71.75	3,084	201	0	250			250	210	210		210	737	737			737	
5/22/08	1,700	1,005	73.75	2,705	197	0	250			250	150	150		150	737	737			737	
5/23/08	1,398	0		1,398	193	0	250			250	150	150		150	737	737			737	
5/24/08	1,334	0		1,334	189	0	250			250	150	150		150	737	737			737	
5/25/08	1,330	0		1,330	185	0	250			250	150	150		150	737	737			737	
5/26/08	1,326	0		1,326	181	0	250			250	150	150		150	737	737				

Appendix A-1, Table 12
 2008 VAMP DAILY OPERATION PLAN – APRIL 28, 2008
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				SJR above Merced River 2 day lag)		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	(cfs)	(cfs)	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,820			1,820	781	-28	268			268	163	163		163	803	803			803	
3/16/08	1,850			1,850	785	-91	265			265	162	162		162	806	806			806	
3/17/08	1,880			1,880	763	-99	247			247	162	162		162	1,199	1,199			1,199	
3/18/08	1,860			1,906	762	-115	232			232	168	168		168	1,500	1,500			1,500	
3/19/08	2,010			2,053	757	-336	239			239	175	175		175	1,503	1,503			1,503	
3/20/08	2,180			2,225	755	-452	239			239	173	173		173	1,519	1,519			1,519	
3/21/08	2,210			2,258	783	-409	217			217	164	164		164	1,510	1,510			1,510	
3/22/08	2,270			2,318	777	-368	250			250	159	159		159	1,512	1,512			1,512	
3/23/08	2,350			2,400	757	-296	273			273	162	162		162	1,515	1,515			1,515	
3/24/08	2,390			2,441	738	-224	281			281	160	160		160	1,505	1,505			1,505	
3/25/08	2,330			2,383	733	-301	277			277	159	159		159	1,510	1,510			1,510	
3/26/08	2,290			2,348	681	-328	268			268	159	159		159	1,510	1,510			1,510	
3/27/08	2,350			2,409	671	-274	265			265	159	159		159	1,509	1,509			1,509	
3/28/08	2,410			2,472	597	-155	260			260	166	166		166	1,500	1,500			1,500	
3/29/08	2,430			2,492	598	-115	260			260	160	160		160	1,503	1,503			1,503	
3/30/08	2,480			2,542	583	14	268			268	160	160		160	1,503	1,503			1,503	
3/31/08	2,480			2,542	583	21	257			257	159	159		159	1,339	1,339			1,339	
4/1/08	2,380			2,444	563	-62	256			256	170	170		170	1,264	1,264			1,264	
4/2/08	2,210			2,276	566	-73	259			259	169	169		169	1,093	1,093			1,093	
4/3/08	2,160			2,228	542	-26	249			249	163	163		163	1,007	1,007			1,007	
4/4/08	2,050			2,120	550	36	258			258	158	158		158	1,010	1,010			1,010	
4/5/08	2,020			2,090	499	119	260			260	161	161		161	1,008	1,008			1,008	
4/6/08	2,000			2,071	476	104	272			272	169	169		169	1,004	1,004			1,004	
4/7/08	2,010			2,081	417	155	275			275	172	172		172	1,005	1,005			1,005	
4/8/08	1,960			2,029	412	120	268			268	171	171		171	1,001	1,001			1,001	
4/9/08	1,880			1,876	390	10	271			271	172	172		172	1,004	1,004			1,004	
4/10/08	1,850			1,846	386	-13	256			256	172	172		172	1,004	1,004			1,004	
4/11/08	1,840			1,836	363	2	260			260	178	178		178	1,164	1,164			1,164	
4/12/08	1,820			1,816	339	-17	271			271	180	180		180	1,250	1,250			1,250	
4/13/08	1,960			1,956	321	-5	278			278	180	180		180	1,250	1,250			1,250	
4/14/08	2,050			2,046	328	17	274			274	177	177		177	1,250	1,250			1,250	
4/15/08	2,010			2,006	346	-16	266			266	165	165		165	1,385	1,385			1,385	
4/16/08	2,010			2,006	348	-27	259			259	163	163		163	1,500	1,500			1,500	
4/17/08	2,145			2,145	325	-25	257			257	164	164		164	1,520	1,520			1,520	
4/18/08	2,195			2,195	321	-82	260			260	165	165		165	1,515	1,515			1,515	
4/19/08	2,176			2,176	331	-92	250	0	0	249	755	755		755	1,519	1,519			1,519	
4/20/08	2,136			2,136	318	-122	250	8	0	258	751	1,100	200	1,300	745	1,020	360	0	1,380	
4/21/08	2,599			2,599	303	-266	250	15	0	265	751	1,100	170	1,270	745	1,020	333	0	1,353	
4/22/08	2,261	560	1.11	2,820	326	-427	250	101	0	351	751	1,100	210	1,310	745	1,020	367	0	1,387	
4/23/08	2,439	511	2.12	2,950	255	-234	250	292	135	677	751	1,100	210	1,310	745	1,000	351	0	1,351	
4/24/08	2,488	592	3.30	3,080	213	-208	250	627	135	1,012	751	1,100	210	1,310	745	950	164	0	1,114	
4/25/08	2,548	662	4.61	3,210	200	-57	250	1,008	135	1,393	751	900	230	1,130	745	820	64	0	884	
4/26/08	2,359	801	6.20	3,160	184	-154	250	1,108	135	1,493	751	750	212	962	745	620	104	0	724	
4/27/08	2,144	1,056	8.29	3,200	179	-26	250	1,110	135	1,495	751	650	211	861	745	620	32	0	652	
4/28/08	1,804	1,459	11.19	3,263	283	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
4/29/08	1,699	1,486	14.14	3,185	280	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
4/30/08	1,703	1,575	17.26	3,278	276	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
5/1/08	1,700	1,530	20.29	3,230	273	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
5/2/08	1,696	1,530	23.33	3,226	269	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
5/3/08	1,693	1,530	26.36	3,223	266	0	250	915	135	1,300	751	550	300	850	745	620	30	0	650	
5/4/08	1,689	1,530	29.40	3,219	262	0	250	615	135	1,000	751	550	435	985	745	620	30	0	650	
5/5/08	1,686	1,530	32.43	3,216	259	0	250	565	135	950	751	1,100	200	1,300	745	520	280	0	800	
5/6/08	1,682	1,515	35.44	3,197	255	0	250	565	135	950	751	1,100	200	1,300	745	520	280	0	800	
5/7/08	2,129	1,230	37.88	3,359	251	0	250	565	135	950	751	1,100	200	1,300	745	520	280	0	800	
5/8/08	2,125	1,180	40.22	3,305	248	0	250	565	135	950	751	1,100	200	1,300	745	520	280	0	800	
5/9/08	2,121	1,180	42.56	3,301	244	0	250	615	135	1,000	751	1,100	200	1,300	745	520	280	0	800	
5/10/08	2,118	1,180	44.90	3,298	241	0	250	615	135	1,000	751	900	100	1,000	745	520	480	0	1,000	
5/11/08	2,114	1,180	47.24	3,294	237	0	250	665	135	1,050	751	750	150	900	745	520	680	0	1,200	
5/12/08	1,911	1,330	49.88	3,241	234	0	250	665	135	1,050	751	650	150	800	745	620	580	0	1,200	
5/13/08	1,757	1,580	53.01	3,337	230	0	250	665	135	1,050	751	550	250	800	745	620	580	0	1,200	
5/14/08	1,754	1,530	56.05	3,284	226	0	250	665	135	1,050	751	550	250	800	745	620	580	0	1,200	
5/15/08	1,650	1,630	59.28	3,280	223	0	250	665	135	1,050	751	550	250	800	745	1,020	180	0	1,200	
5/16/08	1,646	1,630	62.51	3,276	219	0	250	665	135	1,050	751	550	250	800	745	1,020	180	0	1,200	
5/17/08	2,043	1,230	64.95	3,273	216	0	250	665	135	1,050	751	550	250	800	745	1,020	180	0	1,200	
5/18/08	2,039	1,230	67.39	3,269	212	0	250	665	135	1,050	751	450	275	725	745	1,020	180	0	1,200	
5/19/08	2,036	1,230	69.83	3,266	209	0	250	280	170	700	751	350	300	650	745	1,020	180	0	1,200	
5/20/08	1,932	1,255	72.32	3,187	205	0	250	250		250	751	275	300	575	745	970	230	0	1,200	
5/21/08	1,829	1,280	74.86	3,109	201	0	250	250		250	210	210		210	737	737			737	
5/22/08	1,700	980	76.80	2,680	197	0	250	250		250	150	150		150	737	737			737	
5/23/08	1,398	0		1,398	193	0	250	250		250	150	150		150	737	737			737	
5/24/08	1,334	0		1,334	189	0	250	250		250	150	150		150	737	737			737	
5/25/08	1,330	0		1,330	185	0	250	250		250	150	150		150	737	737			737	
5/26/08	1,326	0		1,326	181	0	250	250												

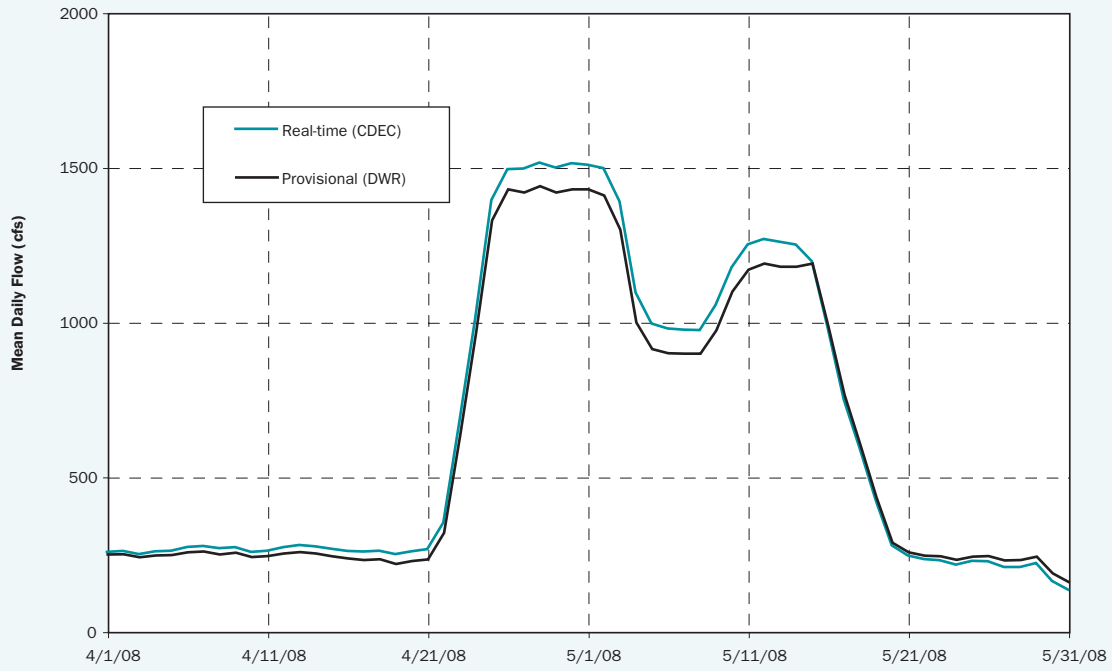
Appendix A-1, Table 13
 2008 VAMP DAILY OPERATION PLAN – APRIL 30, 2008
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis				SJR above Merced River 2 day lag)		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	(cfs)	(cfs)	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
3/15/08	1,820			1,820	735	-28	268			268	167	167		167	803	803			803	
3/16/08	1,850			1,850	735	-91	265			265	166	166		166	806	806			806	
3/17/08	1,880			1,880	716	-99	247			247	166	166		166	1,199	1,199			1,199	
3/18/08	1,860			1,860	713	-115	232			232	172	172		172	1,500	1,500			1,500	
3/19/08	2,010			2,010	705	-336	239			239	179	179		179	1,503	1,503			1,503	
3/20/08	2,180			2,180	703	-452	239			239	177	177		177	1,519	1,519			1,519	
3/21/08	2,210			2,210	727	-409	217			217	170	170		170	1,510	1,510			1,510	
3/22/08	2,270			2,270	720	-368	250			250	165	165		165	1,512	1,512			1,512	
3/23/08	2,350			2,350	698	-296	273			273	168	168		168	1,515	1,515			1,515	
3/24/08	2,390			2,390	674	-224	281			281	166	166		166	1,505	1,505			1,505	
3/25/08	2,330			2,330	668	-301	277			277	165	165		165	1,510	1,510			1,510	
3/26/08	2,290			2,290	613	-328	268			268	165	165		165	1,510	1,510			1,510	
3/27/08	2,350			2,350	604	-274	265			265	164	164		164	1,509	1,509			1,509	
3/28/08	2,410			2,410	529	-155	260			260	172	172		172	1,500	1,500			1,500	
3/29/08	2,430			2,430	530	-115	260			260	166	166		166	1,503	1,503			1,503	
3/30/08	2,480			2,480	513	14	268			268	166	166		166	1,503	1,503			1,503	
3/31/08	2,480			2,480	511	21	257			257	165	165		165	1,339	1,339			1,339	
4/1/08	2,380			2,380	489	-62	256			256	176	176		176	1,264	1,264			1,264	
4/2/08	2,210			2,210	490	-73	259			259	175	175		175	1,093	1,093			1,093	
4/3/08	2,160			2,160	466	-26	249			249	169	169		169	1,007	1,007			1,007	
4/4/08	2,050			2,050	474	36	258			258	163	163		163	1,010	1,010			1,010	
4/5/08	2,020			2,020	426	119	260			260	163	163		163	1,008	1,008			1,008	
4/6/08	2,000			2,000	404	104	272			272	172	172		172	1,004	1,004			1,004	
4/7/08	2,010			2,010	417	155	275			275	176	176		176	1,005	1,005			1,005	
4/8/08	1,960			1,960	412	120	268			268	175	175		175	1,001	1,001			1,001	
4/9/08	1,880			1,880	390	10	271			271	176	176		176	1,004	1,004			1,004	
4/10/08	1,850			1,850	386	-13	256			256	176	176		176	1,004	1,004			1,004	
4/11/08	1,840			1,840	363	2	260			260	182	182		182	1,164	1,164			1,164	
4/12/08	1,820			1,820	339	-17	271			271	184	184		184	1,250	1,250			1,250	
4/13/08	1,960			1,960	321	-5	278			278	184	184		184	1,250	1,250			1,250	
4/14/08	2,050			2,050	328	17	274			274	181	181		181	1,250	1,250			1,250	
4/15/08	2,010			2,010	346	-16	266			266	170	170		170	1,385	1,385			1,385	
4/16/08	2,010			2,010	348	-27	259			259	168	168		168	1,500	1,500			1,500	
4/17/08	2,150			2,150	325	-25	257			257	168	168		168	1,520	1,520			1,520	
4/18/08	2,200			2,200	321	-82	260			260	169	169		169	1,515	1,515			1,515	
4/19/08	2,180			2,180	331	-92	250	0	0	249	756	756		756	1,519	1,519			1,519	
4/20/08	2,140			2,140	318	-122	250	8	0	258	751	1,100	200	1,300	745	1,020	360	0	1,380	
4/21/08	2,600			2,600	303	-266	250	15	0	265	751	1,100	170	1,270	745	1,020	333	0	1,353	
4/22/08	2,261	560	1.11	2,820	326	-427	250	101	0	351	751	1,100	210	1,310	745	1,020	367	0	1,387	
4/23/08	2,439	511	2.12	2,950	255	-234	250	292	135	677	751	1,100	210	1,310	745	1,000	351	0	1,351	
4/24/08	2,488	592	3.30	3,080	213	-208	250	627	135	1,012	751	1,100	210	1,310	745	950	164	0	1,114	
4/25/08	2,548	662	4.61	3,210	200	-57	250	1,008	135	1,393	751	900	230	1,130	745	820	64	0	884	
4/26/08	2,359	801	6.20	3,160	184	-154	250	1,108	135	1,493	751	750	212	962	745	620	104	0	724	
4/27/08	2,144	1,056	8.29	3,200	179	-26	250	1,110	135	1,495	751	650	211	861	745	620	32	0	652	
4/28/08	1,691	1,459	11.19	3,150	241	-113	250	1,129	135	1,514	751	550	302	852	745	620	34	0	654	
4/29/08	1,514	1,486	14.14	3,000	256	-185	250	1,113	135	1,498	751	550	312	862	745	620	32	0	652	
4/30/08	1,421	1,581	17.27	3,002	276	-240	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
5/1/08	1,676	1,608	20.46	3,284	273	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
5/2/08	1,696	1,578	23.59	3,274	269	0	250	1,065	135	1,450	751	550	300	850	745	620	30	0	650	
5/3/08	1,693	1,530	26.63	3,223	266	0	250	915	135	1,300	751	550	300	850	745	620	30	0	650	
5/4/08	1,689	1,530	29.66	3,219	262	0	250	615	135	1,000	751	550	435	985	745	620	30	0	650	
5/5/08	1,686	1,530	32.70	3,216	259	0	250	515	135	900	751	1,100	200	1,300	745	520	280	0	800	
5/6/08	1,682	1,515	35.70	3,197	255	0	250	515	135	900	751	1,100	200	1,300	745	520	280	0	800	
5/7/08	2,129	1,230	38.14	3,359	251	0	250	515	135	900	751	1,100	200	1,300	745	520	280	0	800	
5/8/08	2,125	1,130	40.38	3,255	248	0	250	515	135	900	751	1,100	200	1,300	745	520	280	0	800	
5/9/08	2,121	1,130	42.62	3,251	244	0	250	615	135	1,000	751	1,100	200	1,300	745	520	280	0	800	
5/10/08	2,118	1,130	44.86	3,248	241	0	250	715	135	1,100	751	900	100	1,000	745	520	480	0	1,000	
5/11/08	2,114	1,130	47.11	3,244	237	0	250	815	135	1,200	751	750	150	900	745	520	480	0	1,000	
5/12/08	1,911	1,330	49.74	3,241	234	0	250	815	135	1,200	751	650	150	800	745	620	430	0	1,050	
5/13/08	1,757	1,480	52.68	3,237	230	0	250	815	135	1,200	751	550	250	800	745	620	430	0	1,050	
5/14/08	1,754	1,530	55.71	3,284	226	0	250	815	135	1,200	751	550	250	800	745	800	250	0	1,050	
5/15/08	1,650	1,630	58.95	3,280	223	0	250	815	135	1,200	751	550	250	800	745	1,000	50	0	1,050	
5/16/08	1,826	1,450	61.82	3,276	219	0	250	615	135	1,000	751	550	250	800	745	1,000	50	0	1,050	
5/17/08	2,023	1,250	64.30	3,273	216	0	250	460	140	850	751	550	250	800	745	1,000	300	0	1,300	
5/18/08	2,019	1,250	66.78	3,269	212	0	250	250	150	650	751	450	350	800	745	1,000	500	0	1,500	
5/19/08	2,016	1,300	69.36	3,316	209	0	250	50	150	450	751	350	300	650	745	1,000	500	0	1,500	
5/20/08	1,912	1,450	72.24	3,362	205	0	250	250	250	250	751	275	150	425	745	1,000	500	0	1,500	
5/21/08	1,809	1,200	74.62	3,009	201	0	250	250	250	250	210	210	210	210	737	737			737	
5/22/08	1,730	850	76.30	2,580	197	0	250	250	250	250	150	150	150	150	737	737			737	
5/23/08	1,398	0		1,398	193	0	250	250	250	250	150	150	150	150	737	737			737	
5/24/08	1,334	0		1,334	189	0	250	250	250	250	150	150	150	150	737	737			737	
5/25/08	1,330	0		1,330	185	0	250	250	250	250	150	150	150	150	737	737			737	
5/26/08	1,326	0																		

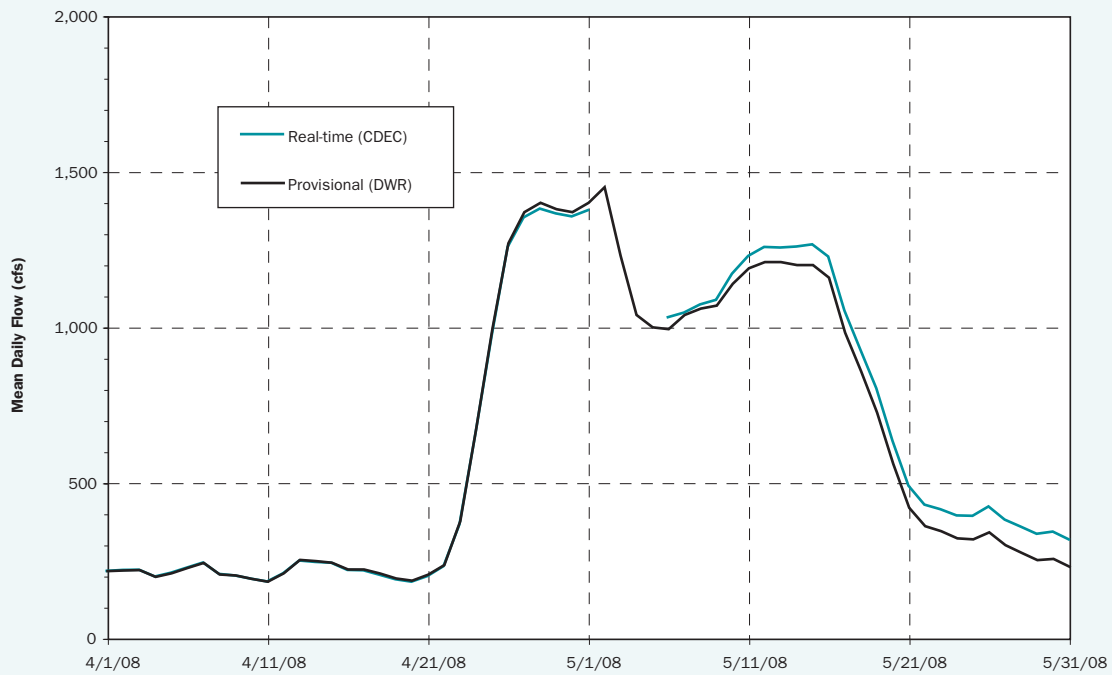
Appendix A-1, Table 14
 2008 VAMP DAILY OPERATION PLAN – MAY 15, 2008
 Target Flow Period: April 22 - May 22 • Flow Target: 3,200 cfs
Bold Numbers: observed real-time mean daily flows

Date	San Joaquin River near Vernalis						Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin				Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced River 2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow- reshaped	VAMP Suppl. Flow	Other Suppl. Flow	
	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
3/15/08	1,820			1,820	735	-28	268		268	167	167		167	803	803			803	
3/16/08	1,850			1,850	735	-91	265		265	166	166		166	806	806			806	
3/17/08	1,880			1,880	716	-99	247		247	166	166		166	1,199	1,199			1,199	
3/18/08	1,860			1,860	713	-115	232		232	172	172		172	1,500	1,500			1,500	
3/19/08	2,010			2,010	705	-336	239		239	179	179		179	1,503	1,503			1,503	
3/20/08	2,180			2,180	703	-452	239		239	177	177		177	1,519	1,519			1,519	
3/21/08	2,210			2,210	727	-409	217		217	170	170		170	1,510	1,510			1,510	
3/22/08	2,270			2,270	720	-368	250		250	165	165		165	1,512	1,512			1,512	
3/23/08	2,350			2,350	698	-296	273		273	168	168		168	1,515	1,515			1,515	
3/24/08	2,390			2,390	674	-224	281		281	166	166		166	1,505	1,505			1,505	
3/25/08	2,330			2,330	668	-301	277		277	165	165		165	1,510	1,510			1,510	
3/26/08	2,290			2,290	613	-328	268		268	165	165		165	1,510	1,510			1,510	
3/27/08	2,350			2,350	604	-274	265		265	164	164		164	1,509	1,509			1,509	
3/28/08	2,410			2,410	529	-155	260		260	172	172		172	1,500	1,500			1,500	
3/29/08	2,430			2,430	530	-115	260		260	166	166		166	1,503	1,503			1,503	
3/30/08	2,480			2,480	513	14	268		268	166	166		166	1,503	1,503			1,503	
3/31/08	2,480			2,480	511	21	257		257	165	165		165	1,339	1,339			1,339	
4/1/08	2,380			2,380	489	-62	256		256	176	176		176	1,264	1,264			1,264	
4/2/08	2,210			2,210	490	-73	259		259	175	175		175	1,093	1,093			1,093	
4/3/08	2,160			2,160	466	-26	249		249	169	169		169	1,007	1,007			1,007	
4/4/08	2,050			2,050	474	36	258		258	163	163		163	1,010	1,010			1,010	
4/5/08	2,020			2,020	426	119	260		260	163	163		163	1,008	1,008			1,008	
4/6/08	2,000			2,000	404	104	272		272	172	172		172	1,004	1,004			1,004	
4/7/08	2,010			2,010	417	155	275		275	176	176		176	1,005	1,005			1,005	
4/8/08	1,960			1,960	412	120	268		268	175	175		175	1,001	1,001			1,001	
4/9/08	1,880			1,880	390	10	271		271	176	176		176	1,004	1,004			1,004	
4/10/08	1,850			1,850	386	-13	256		256	176	176		176	1,004	1,004			1,004	
4/11/08	1,840			1,840	363	2	260		260	182	182		182	1,164	1,164			1,164	
4/12/08	1,820			1,820	339	-17	271		271	184	184		184	1,250	1,250			1,250	
4/13/08	1,960			1,960	321	-5	278		278	184	184		184	1,250	1,250			1,250	
4/14/08	2,050			2,050	328	17	274		274	181	181		181	1,250	1,250			1,250	
4/15/08	2,010			2,020	346	-6	266		266	170	170		170	1,385	1,385			1,385	
4/16/08	2,010			2,030	348	-7	259		259	168	168		168	1,500	1,500			1,500	
4/17/08	2,180			2,180	325	5	257		257	168	168		168	1,520	1,520			1,520	
4/18/08	2,240			2,240	321	-42	260		260	169	169		169	1,515	1,515			1,515	
4/19/08	2,240			2,240	331	-32	250		249	756	756		756	1,519	1,519			1,519	
4/20/08	2,210			2,210	318	-52	250	8	0	258	751	1,100	200	1,300	745	1,020	360	0	1,380
4/21/08	2,680			2,680	303	-186	250	15	0	265	751	1,100	170	1,270	745	1,020	333	0	1,353
4/22/08	2,361	560	1.11	2,920	326	-327	250	101	0	351	751	1,100	210	1,310	745	1,020	367	0	1,387
4/23/08	2,539	511	2.12	3,050	255	-134	250	292	135	677	751	1,100	210	1,310	745	1,000	351	0	1,351
4/24/08	2,588	592	3.30	3,180	213	-108	250	627	135	1,012	751	1,100	210	1,310	745	950	164	0	1,114
4/25/08	2,648	662	4.61	3,310	200	43	250	1,008	135	1,393	751	900	230	1,130	745	820	64	0	884
4/26/08	2,459	801	6.20	3,260	184	-54	250	1,108	135	1,493	751	750	212	962	745	620	104	0	724
4/27/08	2,244	1,056	8.29	3,300	179	74	250	1,110	135	1,495	751	650	211	861	745	620	32	0	652
4/28/08	1,791	1,459	11.19	3,250	241	-13	250	1,129	135	1,514	751	550	302	852	745	620	34	0	654
4/29/08	1,614	1,486	14.14	3,100	256	-85	250	1,113	135	1,498	751	550	312	862	745	620	32	0	652
4/30/08	1,519	1,581	17.27	3,100	226	-142	250	1,127	135	1,512	751	550	301	851	745	620	37	0	657
5/1/08	1,482	1,608	20.46	3,090	226	-194	250	1,122	135	1,507	751	550	301	851	745	620	38	0	658
5/2/08	1,544	1,586	23.61	3,130	260	-102	250	1,111	135	1,496	751	550	306	856	745	620	33	0	653
5/3/08	1,539	1,601	26.78	3,140	270	-107	250	1,003	135	1,388	751	550	301	851	745	620	35	0	655
5/4/08	1,564	1,596	29.95	3,160	260	-116	250	709	135	1,094	751	550	490	1,040	745	620	98	0	718
5/5/08	1,568	1,582	33.09	3,150	260	-122	250	609	135	994	751	1,100	210	1,310	745	520	283	0	803
5/6/08	1,504	1,726	36.51	3,230	260	-176	250	593	135	978	751	1,100	200	1,300	745	520	288	0	808
5/7/08	1,903	1,337	39.16	3,240	215	-227	250	589	135	974	751	1,100	200	1,300	745	520	282	0	802
5/8/08	1,998	1,232	41.61	3,230	209	-132	250	588	135	973	751	1,100	200	1,300	745	520	286	0	806
5/9/08	2,070	1,210	44.01	3,280	204	-15	250	669	135	1,054	751	1,100	200	1,300	745	520	285	0	805
5/10/08	2,040	1,210	46.41	3,250	190	-39	250	791	135	1,176	751	900	270	1,170	745	520	423	0	943
5/11/08	2,212	1,208	48.80	3,420	203	138	250	865	135	1,250	751	750	165	915	745	520	510	0	1,030
5/12/08	1,983	1,497	51.77	3,480	204	123	250	882	135	1,267	751	650	167	817	745	620	432	0	1,052
5/13/08	1,719	1,601	54.95	3,320	186	-4	250	873	135	1,258	751	550	259	809	745	620	432	0	1,052
5/14/08	1,641	1,599	58.12	3,240	163	-83	250	864	135	1,249	751	550	258	808	745	800	250	0	1,050
5/15/08	1,606	1,708	61.51	3,314	223	0	250	815	135	1,200	751	550	250	800	745	1,000	50	0	1,050
5/16/08	1,763	1,516	64.51	3,279	219	0	250	615	135	1,000	751	550	250	800	745	1,000	50	0	1,050
5/17/08	2,023	1,299	67.09	3,322	216	0	250	460	140	850	751	550	250	800	745	1,000	300	0	1,300
5/18/08	2,019	1,250	69.57	3,269	212	0	250	250	150	650	751	450	250	700	745	1,000	500	0	1,500
5/19/08	2,016	1,300	72.15	3,316	209	0	250	50	150	450	751	350	225	575	745	1,000	500	0	1,500
5/20/08	1,912	1,350	74.82	3,262	205	0	250			250	751	275	125	400	745	1,000	500	0	1,500
5/21/08	1,809	1,125	77.06	2,934	201	0	250			250	210	210		210	737	737			737
5/22/08	1,730	825	78.69	2,555	197	0	250			250	150	150		150	737	737			737
5/23/08	1,398	0		1,398	193	0	250			250	150	150		150	737	737			737
5/24/08	1,334	0		1,334	189	0	250			250	150	150		150	737	737			737
5/25/08	1,330	0		1,330	185	0	250			250	150	150		150	737	737			

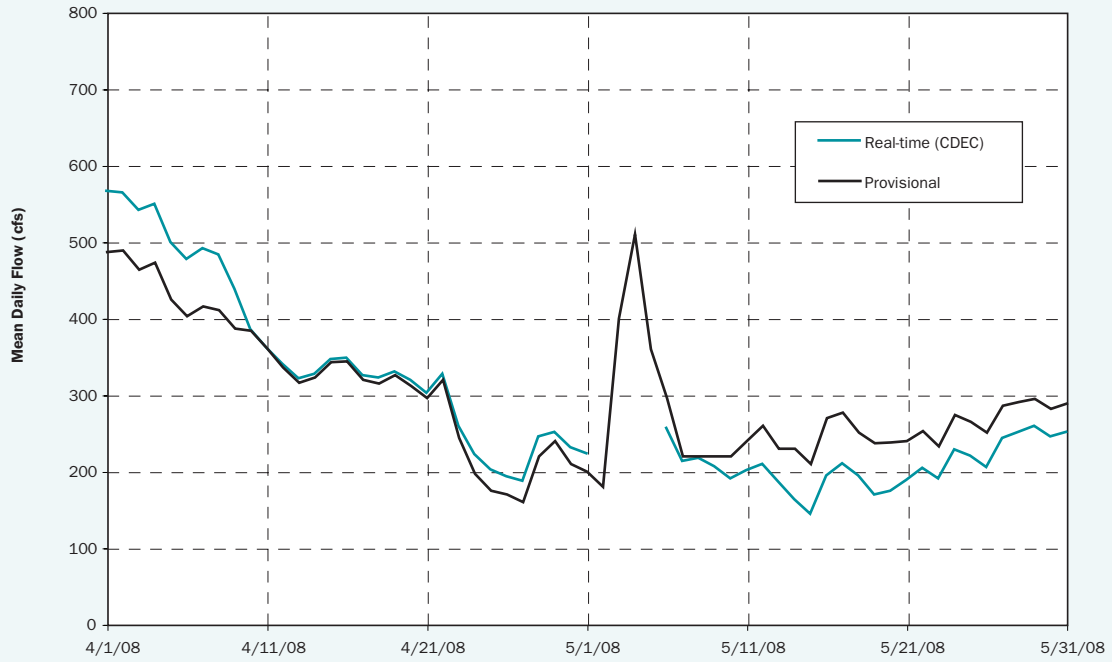
Appendix A-2, Figure 1
Merced River at Cressey



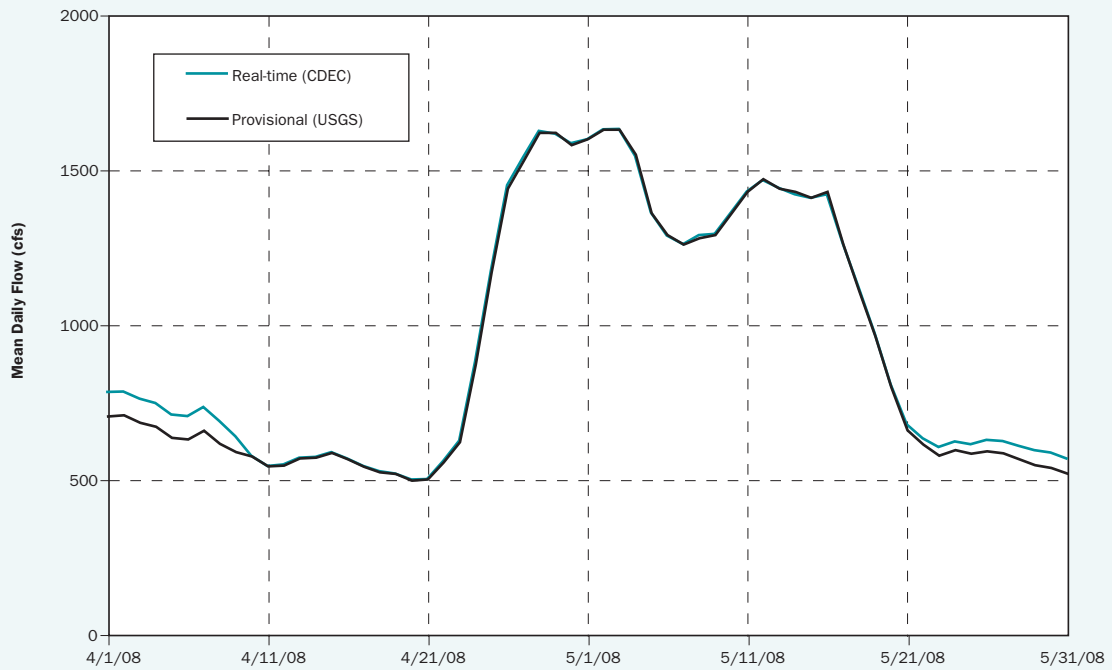
Appendix A-2, Figure 2
Merced River near Stevinson



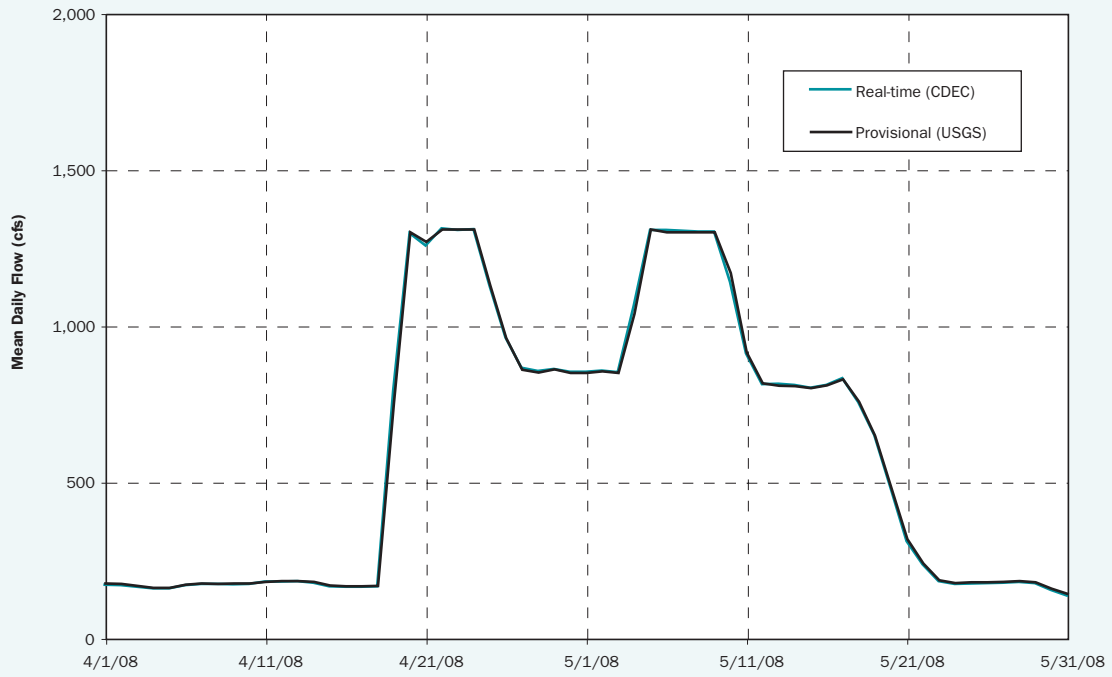
Appendix A-2, Figure 3
San Joaquin River above Merced River



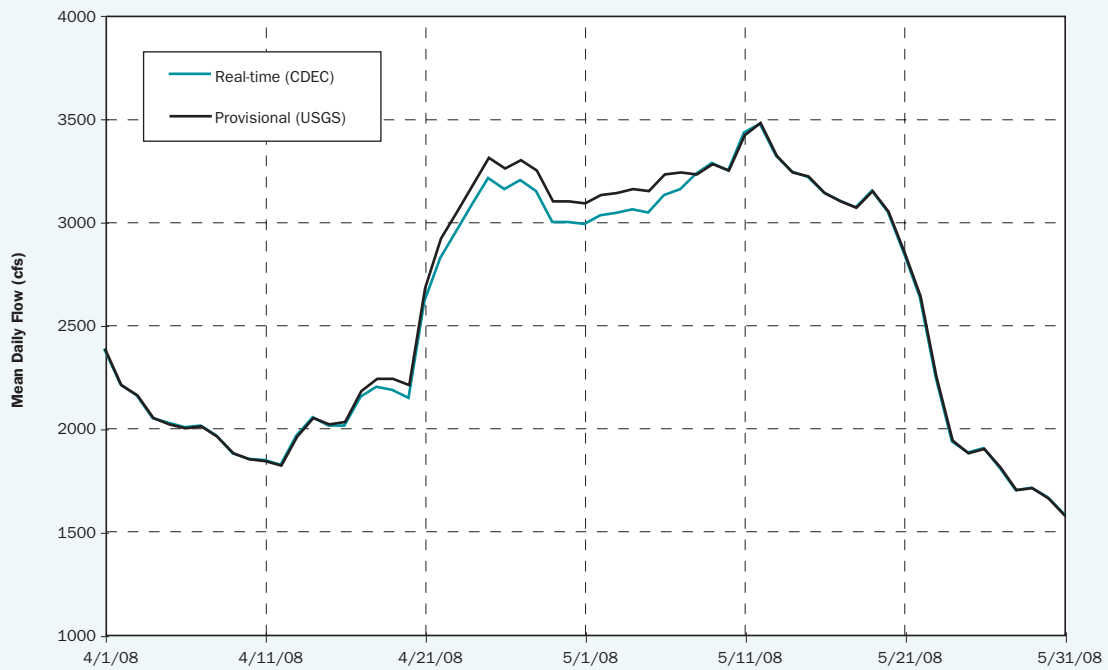
Appendix A-2, Figure 4
San Joaquin River near Newman



Appendix A-2, Figure 5
 Tuolumne River below LaGrange Dam



Appendix A-2, Figure 6
 San Joaquin River near Vernalis



Appendix A-2, Figure 7
Ungaged Flow in San Joaquin River near Vernalis

