

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2016</b>			
05/27/16	1010	open	Weekend operations for the Memorial Day Holiday
05/31/16	1315	closed	
06/03/16	936	open	Weekend operations
06/06/16	1320	closed	
06/10/16	908	open	Weekend operations
06/13/16	1300	closed	
06/18/16	815	open	Summer operations
11/06/16	1010	closed	Knight's Landing Catch Index Triggered
11/09/16	1046	open	RPA Action IV.1.2 has been satisfied
11/12/16	950	closed	NMFS RPA triggered
11/15/16	1003	open	RPA Action IV.1.2 has been satisfied
11/25/16	951	closed	RPA Action IV.1.2 Sacramento Catch Index (SCI) triggered
11/29/16	1350	open	RPA actions have been satisfied
12/01/16	920	closed	RPA action IV.1.2 (Dec 1)

**BUREAU OF RECLAMATION  
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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2015</b>			
05/14/15	1015	open	Delta Salinity
05/18/15	952	closed	
05/22/15	948	open	Memorial Day weekend operations
05/26/15	950	closed	
05/29/15	915	open	Weekend Operations
06/01/15	1004	closed	
06/05/15	1000	open	Weekend Operations
06/08/15	1000	closed	
06/13/15	900	open	Weekend Operations
06/15/15	954	closed	
06/16/15	958	open	
06/23/15	1005	closed	Delta Salinity
06/26/15	1215	open	
07/20/15	1051	closed	Delta Salinity
07/24/15	1232	open	Delta Salinity
08/04/15	940	closed	Delta Salinity
08/07/15	1300	open	
08/11/15	950	closed	Delta Salinity
08/14/15	1220	open	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2015 continued</b>			
10/29/15	1245	closed	Delta Salinity
10/30/15	1145	open	
11/12/15	1000	closed	Rio Vista Flow standard
11/13/15	950	open	
11/18/15	1013	closed	Rio Vista Flow standard
11/20/15	1001	open	
12/01/15	1300	closed	NMFS Biological Opinion section IV.1.2, December 1-14 criteria
12/04/15	1505	open	Delta Salinity
12/15/15	1025	closed	NMFS Biological Opinion Sec IV.1.2

**BUREAU OF RECLAMATION  
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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2014</b>			
02/01/14	1019	open	Delta Salinity
02/10/14	958	closed	Fishery concerns
05/23/14	1017	open	Open for Memorial Day Weekend recreational activities.
05/27/14	1055	closed	
06/06/14	1020	open	Weekend recreational activities.
06/09/14	1055	closed	
06/13/14	958	open	
10/28/14	956	closed	Rio Vista flow standard.
10/30/14	1000	open	
11/02/14	1001	closed	Fishery protection
11/07/14	955	open	
12/01/14	955	closed	Fish protection per National Marine Fisheries Service Biological Opinion (Action IV..1.2).

**BUREAU OF RECLAMATION  
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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2013</b>			
05/24/13	957	open	Open for Memorial Day Weekend recreational activities.
05/28/13	1050	closed	
05/31/13	1530	open	Weekend recreational activities.
06/03/13	1105	closed	
06/07/13	932	open	Weekend recreational activities.
06/10/13	1045	closed	
06/14/13	1018	open	
10/08/13	1608	closed	Rio Vista flow standard
10/10/13	1505	open	
10/17/13	926	closed	Rio Vista flow standard
10/18/13	1500	open	
10/21/13	945	closed	Rio Vista flow standard
10/31/13	1015	open	
11/04/13	1000	closed	Rio Vista flow standard
11/08/13	1000	open	
11/12/13	1015	closed	Rio Vista flow standard
11/15/13	845	open	
11/18/13	953	closed	Rio Vista flow standard
11/22/13	1246	open	

**BUREAU OF RECLAMATION  
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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2013 continued</b>			
<b>11/25/13</b>	<b>1005</b>	<b>closed</b>	<b>Rio Vista flow standard</b>
<b>11/27/13</b>	<b>1021</b>	<b>open</b>	
<b>12/01/13</b>	<b>1120</b>	<b>closed</b>	<b>Fish Protection (NMFS BO Action IV.1.2)</b>

BUREAU OF RECLAMATION  
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DATE	TIME	ACTION	REMARKS
2012			
05/25/12	1115	open	Open for weekend recreational activities.
05/29/12	1000	close	<b>Cancelled</b> <b>Unable to close gate #1 due to mechanical problem</b> <b>Gate #2 was closed.</b> <b>Gate #2 reopened for safety reasons.</b>
06/01/12	1700	close	
06/21/12	1300	open	
11/27/12	1015	closed	Fish Protection per NMFS BO (Action IV.1.2)

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2011</b>			
<b>07/15/11</b>	<b>955</b>	<b>open</b>	
<b>10/04/11</b>	<b>1024</b>	<b>closed</b>	<b>Mokelumne River Salmon fish attraction experiment</b>
<b>10/14/11</b>	<b>1116</b>	<b>open</b>	
<b>12/01/11</b>	<b>919</b>	<b>closed</b>	<b>Fish Protection (NMFS BO Action IV.1.2)</b>



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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2010</b>			
05/28/10	1005	open	Open for weekend recreation activities
06/01/10	1001	closed	
06/04/10	955	open	Open for weekend recreation activities
06/07/10	1004	closed	High flows at Freeport
06/18/10	1104	open	Remain open until further notice
10/13/10	1154	closed	
10/15/10	1205	open	
11/01/10	1024	closed	
11/04/10	1000	open	Fish Protection
12/01/10	1020	closed	

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DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2009</b>			
05/22/09	1000	open	Open for Memorial weekend recreation activities.
05/26/09	1130	closed	
05/29/09	1024	open	Open for weekend recreation activities.
06/01/09	957	close	
06/05/09	1025	open	Open for weekend recreation activities.
06/08/09	1024	close	
06/12/09	1004	open	Open for weekend recreation activities.
06/15/09	946	close	
06/16/09	1037	open	
10/23/09	1026	close	Required by NOAA Fisheries.
10/27/09	1000	open	Opening permitted by NOAA Biological Opinion.
11/06/09	954	closed	Rio Vista Standard
11/07/09	947	open	
11/12/09	959	closed	Rio Vista Standard
11/13/09	956	open	
11/19/09	1000	closed	D-1641 Rio Vista Standard
11/25/09	1016	open	
11/30/09	1015	closed	D-1641 Rio Vista Standard
12/01/09	954	open	
12/06/09	955	closed	D-1641 Rio Vista Standard

BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS

DATE	TIME	ACTION	REMARKS
2009 continued			
12/07/09	1002	open	
12/15/09	958	closed	Fish Protection

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2008</b>			
05/23/08	1058	open	Opening for Memorial Day weekend recreation activities.
05/27/08	1054	closed	
05/30/08	1024	open	Opening for weekend recreation activities.
06/02/08	1024	closed	
06/06/08	1025	open	Opening for weekend recreation activities.
06/09/08	1024	closed	
06/13/08	1024	open	
11/10/08	0820	closed	Begin fish, hydrodynamics and water quality experiment requested by DWR and USGS.
11/12/08	0800	open	
11/12/08	1634	closed	
11/13/08	0800	open	
11/13/08	1555	closed	
11/14/08	0811	open	
11/14/08	1555	closed	
11/15/08	0800	open	
11/15/08	1554	closed	
11/16/08	0818	open	
11/16/08	1554	closed	
11/17/08	0815	open	
11/17/08	1633	closed	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

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<b>2008 continued</b>			
11/18/08	0817	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
11/18/08	1551	closed	
11/19/08	0825	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
11/19/08	1550	closed	
11/20/08	0805	open	
11/20/08	1540	closed	
11/21/08	0820	open	
11/21/08	1541	closed	
11/22/08	0821	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
11/22/08	1619	closed	
11/23/08	0824	open	
11/23/08	1548	closed	
11/24/08	0825	open	
11/24/08	1547	closed	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
11/25/08	0824	open	
11/25/08	1547	closed	
11/26/08	0825	open	Suspend experiment due to Water Quality concerns.
12/13/08	1540	closed	Begin fish, hydrodynamics and water quality experiment requested by DWR and USGS.
12/14/08	0825	open	
12/14/08	1546	closed	

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<b>2008 continued</b>			
12/15/08	0825	open	
12/15/08	1544	closed	
12/16/08	0840	open	
12/16/08	1544	closed	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
12/17/08	0842	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
12/17/08	1547	closed	
12/18/08	0850	open	
12/18/08	1549	closed	
12/19/08	0843	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
12/19/08	1550	closed	
12/20/08	0844	open	
12/20/08	1548	closed	
12/21/08	0844	open	Continued fish, hydrodynamics and water quality experiment requested by DWR and USGS.
12/21/08	1548	closed	
12/22/08	0844	open	
12/22/08	1549	closed	Suspend experiment due to fishery concerns.

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2007</b>			
<b>05/25/07</b>	<b>0949</b>	<b>open</b>	
<b>05/30/07</b>	<b>1240</b>	<b>closed</b>	<b>Decreasing water quality at Emmaton.</b>
<b>06/02/07</b>	<b>0825</b>	<b>open</b>	
<b>06/05/07</b>	<b>1045</b>	<b>closed</b>	<b>To improve water quality at Emmaton.</b>
<b>06/09/07</b>	<b>0830</b>	<b>open</b>	
<b>06/11/07</b>	<b>0830</b>	<b>closed</b>	<b>To comply with SWRCB Standards.</b>
<b>06/16/07</b>	<b>0855</b>	<b>open</b>	
<b>12/14/07</b>	<b>1138</b>	<b>closed</b>	<b>Requested by Fishery Agencies.</b>

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<b>2006</b>			
06/30/06	1003	open	
10/30/06	1030	closed	Testing and adjustment after contract work completed
10/30/06	1230	open	
12/15/06	952	closed	Flows forecasted to get above 25,000 cfs.



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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2005</b>			
<b>06/25/05</b>	<b>914</b>	<b>open</b>	
<b>11/16/05</b>	<b>825</b>	<b>closed</b>	<b>DAT recommendation for Winter Run Protection</b>
<b>11/20/05</b>	<b>830</b>	<b>open</b>	
<b>12/03/05</b>	<b>823</b>	<b>closed</b>	<b>Fishery Protection</b>

**BUREAU OF RECLAMATION  
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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2004</b>			
<b>05/28/04</b>	<b>1032</b>	<b>open</b>	
<b>06/01/04</b>	<b>1032</b>	<b>closed</b>	<b>Gate 2 fully closed at 1229 due to operational problems.</b>
<b>06/03/04</b>	<b>1141</b>	<b>open</b>	<b>Gate 2 fully opened at 1250 due to operational problems.</b>
<b>12/05/04</b>	<b>1215</b>	<b>closed</b>	<b>Fishery Experiment</b>
<b>12/28/04</b>	<b>1127</b>	<b>open</b>	<b>Water Quality, before substantial increase flows at Freeport.</b>
<b>12/29/04</b>	<b>1723</b>	<b>closed</b>	

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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2003</b>			
<b>05/30/03</b>	<b>1625</b>	<b>open</b>	<b>High flows - open for weekend and closed again on Monday.</b>
<b>06/02/03</b>	<b>0824</b>	<b>closed</b>	
<b>06/06/03</b>	<b>1112</b>	<b>open</b>	<b>Gates open on weekends until flow drops below 25,000 cfs</b>
<b>06/09/03</b>	<b>0908</b>	<b>closed</b>	<b>High flows</b>
<b>06/12/03</b>	<b>0925</b>	<b>open</b>	
<b>12/01/03</b>	<b>1024</b>	<b>closed</b>	<b>Fishery Protection</b>

**BUREAU OF RECLAMATION  
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<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2002</b>			
05/24/02	1024	open	
05/28/02	1024	close	
05/31/02	1025	open	Begin Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
06/03/02	2017	close	
06/04/02	0529	open	
06/04/02	2026	close	
06/05/02	0526	open	
06/05/02	2024	close	
06/06/02	0525	open	
06/06/02	2027	close	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
06/07/02	0528	open	
06/09/02	2324	close	
06/10/02	0727	open	
06/10/02	2325	close	
06/11/02	0729	open	
06/11/02	2325	close	
06/12/02	0727	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
06/12/02	2325	close	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

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<b>2002 continued</b>			
06/13/02	0728	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
06/13/02	2325	close	
06/14/02	0724	open	End Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/16/02	0835	closed	Fish study
10/19/02	0825	open	End of fish study. Gate #2 fell closed from full open position at 0830. #2 Gate (south) remains closed until repairs complete.
11/12/02	0815	closed	To complete maintenance and repairs.
11/12/02	1730	open	Maintenance and repairs complete.
12/03/02	1010	closed	Fishery Agencies Request.
12/10/02	1355	open	Fishery Agencies Request Complete.
12/16/02	1124	closed	High Flows.

**BUREAU OF RECLAMATION  
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<b>2001</b>			
01/14/01	1025	closed	Fishery concerns
01/23/01	1025	open	
01/26/01	1025	closed	
05/25/01	1215	open	
05/29/01	0525	closed	
06/09/01	0620	open	
06/11/01	0620	closed	
06/14/01	1350	open	
08/10/01	1740	closed	Begin Gate study to determine how best to operate CC
08/10/01	2352	open	Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
08/12/01	1909	closed	
08/13/01	0110	open	
08/14/01	2057	closed	
08/15/01	0222	open	
08/16/01	2221	closed	Continue Gate study to determine how best to operate CC
08/17/01	0354	open	Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
08/19/01	0009	closed	Started to close gates on 8/18/2001 at 2345 hours.

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2001 continued</b>			
08/19/01	0539	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
08/21/01	0224	closed	
08/21/01	0725	open	
08/23/01	0522	closed	
08/23/01	0925	open	
08/25/01	1721	closed	
08/26/01	0009	open	Started to close gates on 8/25/2001 at 2344 hours.
08/26/01	1902	closed	
08/27/01	0055	open	End Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/08/01	0645	closed	Begin Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/08/01	1225	open	
10/09/01	0739	closed	
10/09/01	1325	open	
10/10/01	0824	closed	
10/10/01	1410	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

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<b>2001 continued</b>			
10/11/01	2024	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/12/01	0125	open	
10/12/01	2119	closed	
10/13/01	0235	open	
10/13/01	2204	closed	
10/14/01	0335	open	
10/14/01	2304	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/15/01	0425	open	
10/16/01	0038	closed	
10/16/01	0514	open	
10/17/01	0154	closed	
10/17/01	0615	open	
10/18/01	0249	closed	
10/18/01	0820	open	
10/19/01	0404	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/19/01	0920	open	



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<b>2001 continued</b>			
10/20/01	0459	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/20/01	1030	open	
10/20/01	1518	closed	
10/20/01	2035	open	
10/21/01	1605	closed	
10/21/01	2134	open	
10/22/01	1700	closed	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta
10/22/01	2206	open	
10/23/01	1735	Gate was to close but operator missed the closure.	
10/24/01	1852	closed	
10/24/01	2359	open	
10/25/01	2004	close	
10/26/01	0054	open	
10/26/01	2030	close	
10/27/01	0139	open	End Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta

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<b>2001 continued</b>			
11/21/01	1024	closed	Fish concerns
11/29/01	1426	open	Delta water quality concern
12/04/01	0931	closed	Forcast high flow Sac River as well as fishery protection. Note: Gates could have been open on 12/11, but kept closed for fishery concerns.

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<b>2000</b>			
01/16/00	1041	Closed	Monitoring of Spring Run sized Chinook salmon at lower Sacramento River sites.
05/26/00	1025	Open	
06/05/00	1025	Closed	
06/09/00	1020	Open	
06/12/00	1025	Closed	
06/16/00	1030	Open	
09/28/00	0654	closed	Begin Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta.
	1325	open	
	1851	closed	
09/29/00	0206	open	
	0755	closed	
	1410	open	
	1941	closed	
09/30/00	0308	open	
	0902	closed	
	1449	open	
	2009	closed	
10/01/00	0416	open	
	0950	closed	
	1545	open	
	2054	closed	
10/02/00	0511	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta.
	1025	closed	
	1540	open	
	2140	closed	

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DELTA CROSS CHANNEL OPERATIONS**

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<b>2000 continued</b>			
<b>10/03/00</b>	<b>0616</b>	<b>open</b>	<b>Continue Gate study to determine how best to operate CC Gates to protect both fish &amp; water quality in the Sacramento-San Joaquin River Delta.</b>
	<b>1155</b>	<b>closed</b>	
	<b>1510</b>	<b>open</b>	
	<b>2224</b>	<b>closed</b>	
<b>10/04/00</b>	<b>0715</b>	<b>open</b>	
	<b>1240</b>	<b>closed</b>	
	<b>1804</b>	<b>open</b>	
	<b>2209</b>	<b>closed</b>	
<b>10/05/00</b>	<b>0755</b>	<b>open</b>	
	<b>1325</b>	<b>closed</b>	
	<b>1854</b>	<b>open</b>	
<b>10/06/00</b>	<b>0011</b>	<b>closed</b>	
	<b>0840</b>	<b>open</b>	
	<b>1410</b>	<b>closed</b>	
	<b>1937</b>	<b>open</b>	
<b>10/07/00</b>	<b>0055</b>	<b>closed</b>	
	<b>0926</b>	<b>open</b>	
	<b>1454</b>	<b>closed</b>	
	<b>2040</b>	<b>open</b>	
<b>10/08/00</b>	<b>0154</b>	<b>closed</b>	
	<b>0956</b>	<b>open</b>	
	<b>1538</b>	<b>closed</b>	
	<b>2123</b>	<b>open</b>	
<b>10/09/00</b>	<b>0250</b>	<b>closed</b>	
	<b>1025</b>	<b>open</b>	
	<b>1610</b>	<b>closed</b>	
	<b>2220</b>	<b>open</b>	
<b>10/10/00</b>	<b>0351</b>	<b>closed</b>	<b>Continue Gate study to determine how best to operate CC Gates to protect both fish &amp; water quality in the Sacramento-San Joaquin River Delta.</b>
	<b>1110</b>	<b>open</b>	
	<b>1640</b>	<b>closed</b>	
	<b>2310</b>	<b>open</b>	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2000 continued</b>			
<b>10/11/00</b>	<b>0440</b>	<b>closed</b>	<b>Continue Gate study to determine how best to operate CC Gates to protect both fish &amp; water quality in the Sacramento-San Joaquin River Delta.</b>
	<b>1155</b>	<b>open</b>	
	<b>1710</b>	<b>closed</b>	
<b>10/12/00</b>	<b>0010</b>	<b>open</b>	
	<b>0539</b>	<b>closed</b>	
	<b>1225</b>	<b>open</b>	
<b>10/13/00</b>	<b>1755</b>	<b>closed</b>	
	<b>0058</b>	<b>open</b>	
	<b>0640</b>	<b>closed</b>	
<b>10/14/00</b>	<b>1240</b>	<b>open</b>	
	<b>1824</b>	<b>closed</b>	
	<b>0155</b>	<b>open</b>	
<b>10/15/00</b>	<b>0754</b>	<b>closed</b>	
	<b>1324</b>	<b>open</b>	
	<b>1854</b>	<b>closed</b>	
<b>10/16/00</b>	<b>0304</b>	<b>open</b>	
	<b>0902</b>	<b>closed</b>	
	<b>1410</b>	<b>open</b>	
<b>10/17/00</b>	<b>1939</b>	<b>closed</b>	
	<b>0354</b>	<b>open</b>	
	<b>0925</b>	<b>closed</b>	
<b>10/18/00</b>	<b>1455</b>	<b>open</b>	<b>Continue Gate study to determine how best to operate CC Gates to protect both fish &amp; water quality in the Sacramento-San Joaquin River Delta.</b>
	<b>2024</b>	<b>closed</b>	
	<b>0454</b>	<b>open</b>	
<b>10/17/00</b>	<b>1025</b>	<b>closed</b>	
	<b>1540</b>	<b>open</b>	
	<b>2124</b>	<b>closed</b>	
<b>10/18/00</b>	<b>0555</b>	<b>open</b>	<b>Continue Gate study to determine how best to operate CC Gates to protect both fish &amp; water quality in the Sacramento-San Joaquin River Delta.</b>
	<b>1125</b>	<b>closed</b>	
	<b>1640</b>	<b>open</b>	
	<b>2212</b>	<b>closed</b>	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

DATE	TIME	ACTION	REMARKS
<b>2000 continued</b>			
10/19/00	0638	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta.
	1210	closed	
	1745	open	
	2309	closed	
10/20/00	0740	open	
	1255	closed	
10/21/00	0821	open	
	1454	closed	
10/22/00	0909	open	
	1438	closed	
10/23/00	0955	open	
	1525	closed	
10/24/00	1015	open	
	1610	closed	
10/25/00	1125	open	
	1655	closed	
10/26/00	1155	open	
	1725	closed	
10/27/00	1240	open	
	1810	closed	
10/28/00		No moves	
10/29/00	1310	open	
	1840	closed	
10/30/00	1355	open	
	1925	closed	
10/31/00	1440	open	
	1955	closed	
11/01/00	1525	open	
	2040	closed	
11/02/00	1625	open	Continue Gate study to determine how best to operate CC Gates to protect both fish & water quality in the Sacramento-San Joaquin River Delta.
	2125	closed	
11/03/00	0610	open	
	1155	closed	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>2000 continued</b>			
<b>11/04/00</b>	<b>0655</b>	<b>open</b>	<b>Continue Gate study to determine how best to operate CC Gates to protect both fish &amp; water quality in the Sacramento-San Joaquin River Delta.</b>
	<b>1239</b>	<b>closed</b>	
<b>11/05/00</b>	<b>0724</b>	<b>open</b>	
	<b>1510</b>	<b>closed</b>	
<b>11/06/00</b>	<b>0810</b>	<b>open</b>	
	<b>1340</b>	<b>closed</b>	
<b>11/07/00</b>	<b>0840</b>	<b>open</b>	
	<b>1410</b>	<b>closed</b>	
<b>11/08/00</b>	<b>0925</b>	<b>open</b>	<b>Opened until further notice. End of study.</b>
<b>12/22/00</b>	<b>1025</b>	<b>closed</b>	
<b>12/26/00</b>	<b>1425</b>	<b>open</b>	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1999</b>			
05/28/99	0852	OPEN	
11/26/99	0824	CLOSED	Fishery protection
12/14/99	0924	Open	Delta Water Quality
12/14/99	1425	Closed	
12/15/99	0922	Open	



BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS

DATE	TIME	ACTION	REMARKS
1998			
07/17/98	0925	OPEN	
09/08/98	1225	CLOSED	Flows in Sacramento River above 25,000 cfs.

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1997</b>			
05/16/97	1900	OPEN	
05/21/97	1120	CLOSED	
05/23/97	1325	OPEN	
05/28/97	0925	CLOSED	
05/30/97	1325	OPEN	
06/12/97	0925	CLOSED	
06/16/97	0955	OPEN	
07/01/97	0725	CLOSED	
07/03/97	1225	OPEN	
10/06/97	1555	CLOSED	EXPERIMENT TO CLOSE THE GATES FOR A 2 WEEK PERIOD TO MEASURE THE RATE OF INCREASE OF SALINITY.
10/15/97	0855	OPEN	
11/25/97	0624	CLOSED	

BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS

DATE	TIME	ACTION	REMARKS
1996			
06/12/96	0900	OPEN	
11/12/96	1300	CLOSED	TO AVOID DIVERSION OF FISH
11/15/96	1300	OPEN	
11/20/96	1200	CLOSED	FISH MOVEMENT

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1995</b>			
<b>01/04/95</b>	<b>1034</b>	<b>CLOSED</b>	<b>REQUEST FROM FISHERY AGENCIES FOR EXPERIMENT ON MOVEMENT OF SALMON SMOLTS.</b>
<b>07/28/95</b>	<b>0700</b>	<b>OPEN</b>	
<b>09/19/95</b>	<b>1400</b>	<b>CLOSED</b>	<b>FLows IN SACRAMENTO RIVER OVER 25,000 CFS.</b>
<b>09/22/95</b>	<b>1100</b>	<b>OPEN</b>	
<b>12/11/95</b>	<b>0900</b>	<b>CLOSED</b>	<b>FORECASTED WEATHER NEXT WEEK WITH RESULTANT INCREASED FLOWS AND FISH MOVEMENT.</b>

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1994</b>			
01/08/94	1041	CLOSED	ESA REQUIREMENT
05/27/94	1326	OPEN	WINTER RUN SALMON ASSUMED TO BE OUT OF SYSTEM
06/22/94	1420	CLOSED	EMMATON WATER QUALITY
06/24/94	1338	OPEN	
06/29/94	1335	CLOSED	TO IMPROVE STATE EMMATON STANDARD
07/01/94	1502	OPEN	FOR 3-DAY WEEKEND
07/05/94	1424	CLOSED	TO IMPROVE STATE EMMATON STANDARD
07/08/94	1335	OPEN	EMMATON STANDARD IMPROVED
07/26/94	1428	CLOSED	TO IMPROVE STATE EMMATON STANDARD
07/29/94	1325	OPEN	
11/11/94	1240	CLOSED	WINTER RUN OUT MIGRATION
11/14/94	1805	OPEN	
12/08/94	1029	CLOSED	WINTER RUN MOVEMENT - NMFS REQUEST TO CLOSE
12/14/94	1625	OPEN	
12/16/94	0835	CLOSED	
12/19/94	1354	OPEN	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1993</b>			
<b>01/03/93</b>	<b>1125</b>	<b>CLOSED</b>	<b>HIGH FLOWS IN SAC RIVER/ESA REQUIREMENTS</b>
<b>05/29/93</b>	<b>1755</b>	<b>OPEN</b>	<b>LOWER FLOWS</b>
<b>06/01/93</b>	<b>1436</b>	<b>CLOSED</b>	<b>HIGH FLOW IN SACRAMENTO RIVER</b>
<b>06/18/93</b>	<b>1001</b>	<b>OPEN</b>	<b>HIGH FLOWS RECEDING</b>
<b>10/29/93</b>	<b>0938</b>	<b>CLOSED</b>	<b>STATE EMMATON STANDARD</b>
<b>11/01/93</b>	<b>0930</b>	<b>OPEN</b>	<b>STATE EMMATON STANDARD IMPROVED</b>
<b>11/02/93</b>	<b>1101</b>	<b>CLOSED</b>	<b>STATE EMMATON STANDARD</b>
<b>11/07/93</b>	<b>0940</b>	<b>OPEN</b>	<b>STATE EMMATON STANDARD IMPROVED</b>

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1992</b>			
<b>02/03/92</b>	<b>1025</b>	<b>CLOSED</b>	<b>OUT-MIGRATION OF JUVENILE WINTER-RUN SALMON</b>
<b>05/01/92</b>	<b>0932</b>	<b>OPEN</b>	<b>OUT-MIGRATION COMPLETE</b>
<b>05/15/92</b>	<b>0900</b>	<b>CLOSED</b>	<b>TO HELP MEET D-1485 RIO VISTA FLOW REQUIREMENTS</b>
<b>05/22/92</b>	<b>1000</b>	<b>OPEN</b>	<b>RIO VISTA FLOWS O.K.</b>
<b>05/26/92</b>	<b>0924</b>	<b>CLOSED</b>	<b>EMMATON WATER QUALITY</b>
<b>05/29/92</b>	<b>1649</b>	<b>OPEN</b>	<b>EMMATON IMPROVED</b>
<b>06/01/92</b>	<b>0920</b>	<b>CLOSED</b>	<b>EMMATON WATER QUALITY</b>
<b>06/03/92</b>	<b>0908</b>	<b>PARTIALLY OPENED</b>	<b>OPENED TO WATER SURFACE FOR GATE INSPECTION</b>
<b>06/03/92</b>	<b>1427</b>	<b>CLOSED</b>	<b>INSPECTION COMPLETED</b>
<b>06/08/92</b>	<b>1520</b>	<b>OPEN</b>	<b>EMMATON IMPROVED</b>
<b>12/12/92</b>	<b>1125</b>	<b>CLOSED</b>	<b>HIGH FLOW IN SACRAMENTO RIVER</b>
<b>12/14/92</b>	<b>1755</b>	<b>OPEN</b>	<b>FLOWS LOWER</b>

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1991</b>			
03/05/91	1425	CLOSED	OUTFLOW ABOVE 12,000
03/11/91	1025	OPEN	OUTFLOW BELOW 12,000
03/14/91	1600	CLOSED	OUTFLOW ABOVE 12,000
04/04/91	1055	OPEN	OUTFLOW BELOW 12,000
05/02/91	1245	CLOSED	FISH FLUSH
05/03/91	1435	OPEN	
05/16/91	1440	CLOSED	EMMATON WATER QUALITY
05/18/91	0625	OPEN	EMMATON IMPROVED
05/20/91	1424	CLOSED	EMMATON WATER QUALITY
05/25/91	0625	OPEN	EMMATON IMPROVED
05/30/91	1125	CLOSED	EMMATON WATER QUALITY
06/01/91	0625	OPEN	EMMATON IMPROVED
06/03/91	1337	CLOSED	EMMATON WATER QUALITY
06/07/91	0845	OPEN	EMMATON IMPROVED
06/10/91	1024	CLOSED	EMMATON WATER QUALITY
06/13/91	0825	OPEN	EMMATON IMPROVED
06/27/91	1455	CLOSED	EMMATON WATER QUALITY
06/29/91	0625	OPEN	EMMATON IMPROVED



**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1990</b>			
<b>01/11/90</b>	<b>0945</b>	<b>CLOSED</b>	<b>OUTFLOW ABOVE 12,000 CFS</b>
<b>01/22/90</b>	<b>1425</b>	<b>OPEN</b>	<b>OUTFLOW BELOW 12,000</b>
<b>04/25/90</b>	<b>1424</b>	<b>GATE 2 CLOSED</b>	<b>FLOW STUDY BY DWR</b>
<b>04/26/90</b>	<b>1540</b>	<b>OPEN</b>	<b>FLOW STUDY COMPLETE</b>
<b>05/15/90</b>	<b>0924</b>	<b>CLOSED</b>	<b>EMMATON WATER QUALITY</b>
<b>05/16/90</b>	<b>1325</b>	<b>OPEN</b>	<b>EMMATON IMPROVED</b>

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1989</b>			
02/19/89	1228	CLOSED	REQUESTED BY SHERIFF'S OFFICE SO THEY COULD SEARCH FOR A BODY -- NONE FOUND
02/19/89	1357	OPEN	
03/06/89	0925	CLOSED	OUTFLOW EXCEEDS 12,000 CFS
04/13/89	1507	OPEN	OUTFLOW BELOW 12,000 CFS
05/08/89	1226	CLOSED	EMMATON QUALITY NOT GOOD
05/10/89	0825	OPEN	EMMATON QUALITY IMPROVING
05/12/89	1425	CLOSED	FISH FLUSH - FISH HAVE REACHED DELTA
05/17/89	1022	OPEN	COLEMAN FISH FLUSH CONCLUDED
06/05/89	1325	CLOSED	EMMATON WATER QUALITY
06/07/89	0825	OPEN	EMMATON QUALITY IMPROVING
06/08/89	1454	CLOSED	EMMATON WATER QUALITY
06/10/89	0655	OPEN	EMMATON QUALITY IMPROVING
06/19/89	1025	CLOSED	EMMATON WATER QUALITY
06/21/89	1425	OPEN	EMMATON QUALITY IMPROVING

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1988</b>			
01/05/88	0825	CLOSED	OUTFLOW REQUIREMENT
01/27/88	1340	OPEN	OUTFLOW BELOW 12,000
05/03/88	0732	CLOSED	FISH TEST
05/06/88	0746	OPEN	FISH TEST
05/13/88	1325	CLOSED	FISH FLUSH
05/20/88	1525	OPEN	
05/31/88	0754	CLOSED	FISH TEST
05/31/88	1435	OPEN	TEST POSTPONED UNTIL 6/13/88
06/21/88	0740	CLOSED	FISH TEST
06/24/88	0725	OPEN	FISH TEST
11/25/88	1254	CLOSED	HIGH OUTFLOW
11/27/88	0743	OPEN	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1987</b>			
02/27/87	0725	OPEN	OUTFLOW BELOW 12,000 CFS
03/06/87	0940	CLOSED	OUTFLOW OVER 12,000 CFS
04/01/87	0825	OPEN	OUTFLOW BELOW 12,000 AND TO EQUALIZE WATER QUALITY BETWEEN EMMATON AND JERSEY POINT
04/28/87	0755	CLOSED	FISH TESTING
05/01/87	0755	OPEN	
05/17/87	0725	CLOSED	FISH FLUSH
05/23/87	0725	OPEN	
10/01/87	1535	CLOSED	EMMATON WATER QUALITY (DWR REQUEST)
10/04/87	0925	OPEN	EMMATON O.K.
10/08/87	1122	CLOSED	EMMATON WATER QUALITY (DWR REQUEST)
10/10/87	0630	OPEN	EMMATON O.K.
10/27/87	1115	CLOSED	EMMATON WATER QUALITY (DWR REQUEST)
10/30/87	0735	OPEN	EMMATON WATER QUALITY O.K.
11/02/87	1455	CLOSED	EMMATON WATER QUALITY (DWR REQUEST)
11/05/87	1525	OPEN	EMMATON O.K.

BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS

DATE	TIME	ACTION	REMARKS
1986			
01/17/86	1300	CLOSED	D-1485 - DELTA OUTFLOW > 12,000 EXPECTED
05/22/86	1300	OPEN	OPEN FOR WEEKEND
09/23/86	1425	CLOSED	HIGH WATER
10/09/86	1355	OPEN	OPEN FOR BOATERS CONVENIENCE
12/05/86	1435	CLOSED	EMMATON WATER QUALITY (REQUEST OF DWR)
12/10/86	1025	OPEN	
12/30/86	1425	CLOSED	OUTFLOW 12,000 CFS

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1985</b>			
03/15/85	1425	OPEN	
05/07/85	1035	CLOSED	DELTA WATER QUALITY
05/09/85	1043	OPEN	FISH TESTING
05/29/85	1002	CLOSED	EMMATON WATER QUALITY
05/31/85	1355	OPEN	JERSEY WATER QUALITY
06/03/85	0925	CLOSED	EMMATON WATER QUALITY
06/06/85	1040	OPEN	JERSEY WATER QUALITY - EMMATON O.K.
06/12/85	0923	CLOSED	EMMATON WATER QUALITY
06/14/85	1324	OPEN	EMMATON O.K.
10/17/85	0909	CLOSED	EMMATON WATER QUALITY
10/19/85	1135	OPEN	EMMATON WATER QUALITY O.K.
10/23/85	1425	CLOSED	EMMATON WATER QUALITY INSURANCE
10/25/85	1400	OPEN	48 HOURS DURATION OF CLOSURE
11/07/85	1425	CLOSED	EMMATON WATER QUALITY (REQUEST OF DWR)
11/08/85	1425	OPEN	24-HOUR CLOSURE - OPEN FOR WEEKEND
11/12/85	1220	CLOSED	EMMATON WATER QUALITY (REQUEST OF DWR)
11/15/85	1423	OPEN	OPEN FOR WEEKEND
11/30/85	1130	CLOSED	HIGH WATER
12/06/85	1230	OPEN	CONTRA COSTA WATER QUALITY - RIVER STILL HIGH BUT FALLING

BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS

DATE	TIME	ACTION	REMARKS
1984			
04/20/84	1005	OPEN	
05/08/84	1149	CLOSED	Closure for fish testing.
05/11/84	1057	OPEN	
05/14/84	1022	CLOSED	
05/17/84	1025	OPEN	
05/21/84	0940	CLOSED	
05/24/84	1015	OPEN	
11/13/84	0954	CLOSED	

BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS

DATE	TIME	ACTION	REMARKS
		1983	
07/22/83	0936	OPEN	
11/13/83	1435	CLOSED	



**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1982</b>			
<b>06/11/82</b>	<b>1225</b>	<b>OPEN</b>	<b>Problems with gate #2. Gate #2 opened at 1610 hours.</b>
<b>06/14/82</b>	<b>1005</b>	<b>CLOSED</b>	
<b>06/18/82</b>	<b>1226</b>	<b>OPEN</b>	
<b>06/21/82</b>	<b>0945</b>	<b>CLOSED</b>	
<b>06/25/82</b>	<b>1221</b>	<b>OPEN</b>	
<b>11/16/82</b>	<b>1025</b>	<b>CLOSED</b>	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
		<b>1981</b>	
<b>01/23/81</b>	<b>1050</b>	<b>CLOSED</b>	
<b>04/15/81</b>	<b>1032</b>	<b>OPEN</b>	
<b>05/05/81</b>	<b>1446</b>	<b>CLOSED</b>	
<b>05/12/81</b>	<b>1130</b>	<b>OPEN</b>	
<b>11/14/81</b>	<b>1119</b>	<b>CLOSED</b>	

**BUREAU OF RECLAMATION  
DELTA CROSS CHANNEL OPERATIONS**

<b>DATE</b>	<b>TIME</b>	<b>ACTION</b>	<b>REMARKS</b>
<b>1980</b>			
<b>10/21/80</b>	<b>1000</b>	<b>CLOSED</b>	<b>Only the south gate was closed.</b>
<b>10/23/80</b>	<b>1125</b>	<b>OPEN</b>	
<b>10/28/80</b>	<b>1025</b>	<b>CLOSED</b>	
<b>11/20/80</b>	<b>1000</b>	<b>OPEN</b>	