

# GRASSLAND BYPASS PROJECT MONTHLY DATA REPORT



**2015**

**A Cooperative Effort By:**

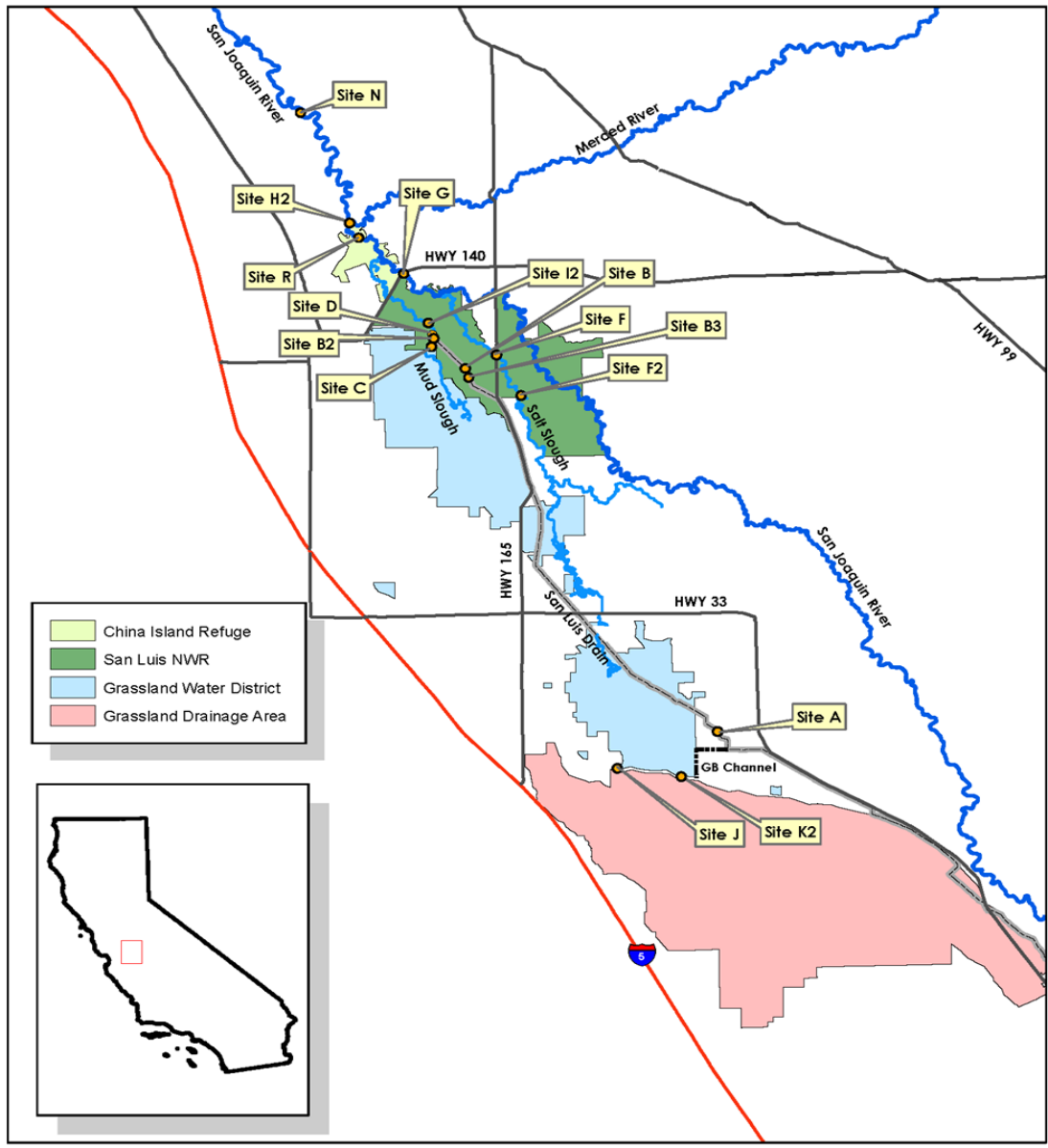
United States Bureau of Reclamation  
Cantral Valley Regional Water Quality Control Board  
United States Fish and Wildlife Service  
National Marine Fisheries Service  
California Department of Fish and Wildlife  
San Luis and Delta-Mendota Water Authority  
United States Environmental Protection Agency  
United States Geological Survey  
San Francisco Estuary Institute

## **GRASSLAND BYPASS PROJECT MONTHLY DATA REPORT**

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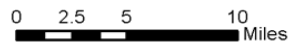
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Figure 1: Map of the Grassland Bypass Project area and sampling locations



### Grassland Bypass Project

Monitoring Sites



Grassland Bypass Project  
 NAD 1983 California Zone 10  
 U.S. Bureau of Reclamation

Table 1a. Water monitoring of inflow to the San Luis Drain (Station A)

PARAMETER	Flow	Discharge	Total Selenium	Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons
Jan-01-2015	9.3	18.5	0.0464	13.2	7,520.0		7,520.0	140.1
Jan-02-2015	5.9	11.7	0.0455	13.4	7,610.0		7,610.0	89.5
Jan-03-2015	5.4	10.7	0.0521	11.0	7,140.0		7,140.0	77.0
Jan-04-2015	3.2	6.3	0.0628	8.9	6,600.0		6,600.0	41.8
Jan-05-2015	0.1	0.3	0.0546	10.8	7,080.0		7,080.0	1.9
Jan-06-2015	2.0	4.0	0.0281	15.1	7,920.0		7,920.0	32.1
Jan-07-2015	4.5	8.9	0.0280	15.2	7,910.0	7,070.0	7,910.0	70.5
Jan-08-2015	0.0	0.0						0.0
Jan-09-2015	0.1	0.2	0.0283	15.2	7,910.0		7,910.0	1.9
Jan-10-2015	0.0	0.0						0.0
Jan-11-2015	4.5	9.0	0.0268	17.3	8,680.0		8,680.0	78.2
Jan-12-2015	0.6	1.1	0.0277	17.6	9,350.0		9,350.0	10.6
Jan-13-2015	3.3	6.5	0.0221	21.4	10,100.0		10,100.0	65.5
Jan-14-2015	5.3	10.4	0.0245	21.9	11,100.0	11,040.0	11,100.0	116.3
Jan-15-2015	5.6	11.2	0.0236	21.6	11,000.0		11,000.0	123.9
Jan-16-2015	5.1	10.1	0.0186	19.5	9,940.0		9,940.0	101.3
Jan-17-2015	5.1	10.1	0.0219	17.2	8,880.0		8,880.0	90.0
Jan-18-2015	5.3	10.5	0.0214	16.1	8,420.0		8,420.0	88.7
Jan-19-2015	7.2	14.3	0.0220	15.0	7,950.0		7,950.0	114.2
Jan-20-2015	8.6	17.1	0.0226	14.4	4,520.0		4,520.0	77.6
Jan-21-2015	7.5	15.0	0.0204	14.2	7,510.0		7,510.0	113.0
Jan-22-2015	7.7	15.3	0.0230	13.7	7,320.0		7,320.0	112.8
Jan-23-2015	8.3	16.4	0.0238	14.0	7,500.0		7,500.0	123.5
Jan-24-2015	24.3	48.2	0.0210	20.3	10,400.0		10,400.0	504.5
Jan-25-2015	15.9	31.6	0.0213	20.7	10,500.0		10,500.0	333.8
Jan-26-2015	15.5	30.7	0.0211	20.6	10,400.0		10,400.0	321.3
Jan-27-2015	22.4	44.5	0.0246	18.1	9,280.0		9,280.0	415.2
Jan-28-2015	32.0	63.4	0.0259	16.0	8,350.0	8,290.0	8,350.0	532.2
Jan-29-2015	39.7	78.8	0.0296	13.4	7,390.0		7,390.0	585.5
Jan-30-2015	13.4	26.6	0.0268	15.3	7,980.0		7,980.0	213.2
Jan-31-2015	0.8	1.6	0.0220	16.4	8,380.0		8,380.0	13.8
Feb-01-2015	0.0	0.0						0.0
Feb-02-2015	1.0	2.0	0.0242	13.7	7,420.0		7,420.0	14.6
Feb-03-2015	2.3	4.5	0.0188	15.9	8,060.0		8,060.0	36.6
Feb-04-2015	0.9	1.7	0.0199	17.2	8,500.0	8,400.0	8,500.0	14.8
Feb-05-2015	17.0	33.7	0.0189	17.0	8,570.0		8,570.0	290.6
Feb-06-2015	33.6	66.6	0.0235	15.0	7,990.0		7,990.0	535.1
Feb-07-2015	34.6	68.7	0.0330	12.4	7,180.0		7,180.0	495.9
Feb-08-2015	30.1	59.7	0.0351	11.9	7,080.0		7,080.0	425.0
Feb-09-2015	16.9	33.5	0.0335	11.8	7,130.0		7,130.0	240.4
Feb-10-2015	0.0	0.0						0.0
Feb-11-2015	0.0	0.0						0.0
Feb-12-2015	0.0	0.0						0.0
Feb-13-2015	0.0	0.0						0.0
Feb-14-2015	0.1	0.2	0.0310	13.9	7,650.0		7,650.0	1.9
Feb-15-2015	0.0	0.0						0.0
Feb-16-2015	0.0	0.0						0.0
Feb-17-2015	0.0	0.0						0.0
Feb-18-2015	0.0	0.0						0.0
Feb-19-2015	0.0	0.0						0.0
Feb-20-2015	0.0	0.0						0.0
Feb-21-2015	0.2	0.4	0.0104	13.2	7,160.0		7,160.0	2.8
Feb-22-2015	2.8	5.6	0.0161	24.2	11,200.0		11,200.0	63.4
Feb-23-2015	13.9	27.6	0.0163	24.1	11,100.0		11,100.0	308.0
Feb-24-2015	27.5	54.5	0.0170			7,000.0	7,000.0	383.5
Feb-25-2015	21.0	41.7	0.0226	12.1	6,520.0		6,520.0	273.4
Feb-26-2015	23.6	46.7	0.0290				6,810.0	320.1
Feb-27-2015	28.6	56.8	0.0310				6,810.0	389.0
Feb-28-2015	5.8	11.4	0.0240				6,810.0	78.3
Mar-01-2015	0.0	0.0						0.0
Mar-02-2015	3.5	6.9	0.0230				6,810.0	47.1
Mar-03-2015	16.9	33.5	0.0260				6,810.0	229.3
Mar-04-2015	27.0	53.5	0.0385	12.5	6,810.0	6,740.0	6,810.0	366.3
Mar-05-2015	26.3	52.2	0.0430				9,640.0	506.5
Mar-06-2015	23.1	45.8	0.0390				9,640.0	444.2
Mar-07-2015	10.4	20.5	0.0380				9,640.0	199.1
Mar-08-2015	0.0	0.0						0.0
Mar-09-2015	0.4	0.7	0.0340				9,640.0	7.2
Mar-10-2015	0.8	1.6	0.0280				9,640.0	15.4
Mar-11-2015	0.8	1.7	0.0265	19.5	9,640.0	6,460.0	9,640.0	16.3
Mar-12-2015	0.3	0.6	0.0210				6,970.0	4.2
Mar-13-2015	0.3	0.6	0.0190				6,970.0	3.9
Mar-14-2015	2.2	4.4	0.0180				6,970.0	30.8
Mar-15-2015	5.9	11.6	0.0190				6,970.0	81.4
Mar-16-2015	7.5	14.8	0.0220				6,970.0	103.6
Mar-17-2015	7.1	14.2	0.0320				6,970.0	99.3
Mar-18-2015	6.6	13.2	0.0370			6,970.0	6,970.0	92.4
Mar-19-2015	7.4	14.6	0.0450				6,950.0	102.0
Mar-20-2015	14.1	28.0	0.0540				6,950.0	195.8
Mar-21-2015	23.7	47.0	0.0470				6,950.0	328.2
Mar-22-2015	28.4	56.3	0.0390				6,950.0	393.3
Mar-23-2015	25.9	51.3	0.0400				6,950.0	358.6
Mar-24-2015	18.4	36.6	0.0440				6,950.0	255.6
Mar-25-2015	16.1	32.0	0.0399	11.8	6,950.0	6,700.0	6,950.0	223.6
Mar-26-2015	12.4	24.7	0.0400				8,600.0	213.6

PARAMETER	Flow	Discharge	Total Selenium	Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons
Mar-27-2015	0.2	0.4	0.0360				8,600.0	3.4
Mar-28-2015	0.0	0.0						0.0
Mar-29-2015	0.0	0.0						0.0
Mar-30-2015	0.0	0.0						0.0
Mar-31-2015	0.0	0.0						0.0
Apr-01-2015	0.0	0.0						0.0
Apr-02-2015	0.0	0.0						0.0
Apr-03-2015	0.0	0.0						0.0
Apr-04-2015	0.0	0.0						0.0
Apr-05-2015	0.0	0.0						0.0
Apr-06-2015	0.0	0.0						0.0
Apr-07-2015	0.0	0.0						0.0
Apr-08-2015	3.7	7.3	0.0089	16.9	9,280.0	8,980.0	9,280.0	67.7
Apr-09-2015	9.7	19.2	0.0300				8,110.0	156.7
Apr-10-2015	6.2	12.3	0.0350				8,110.0	100.1
Apr-11-2015	6.8	13.4	0.0320				8,110.0	109.5
Apr-12-2015	5.1	10.0	0.0340				8,110.0	81.7
Apr-13-2015	6.1	12.0	0.0330				8,110.0	98.2
Apr-14-2015	4.9	9.7	0.0330				8,110.0	78.9
Apr-15-2015	2.9	5.7	0.0301	15.5	8,110.0	7,100.0	8,110.0	46.7
Apr-16-2015	2.5	4.9	0.0230				8,800.0	43.1
Apr-17-2015	0.0	0.0						0.0
Apr-18-2015	0.0	0.0						0.0
Apr-19-2015	0.0	0.0						0.0
Apr-20-2015	0.0	0.0						0.0
Apr-21-2015	0.0	0.0						0.0
Apr-22-2015	0.0	0.0						0.0
Apr-23-2015	0.0	0.0						0.0
Apr-24-2015	0.0	0.0						0.0
Apr-25-2015	0.0	0.0						0.0
Apr-26-2015	0.0	0.0						0.0
Apr-27-2015	0.0	0.0						0.0
Apr-28-2015	0.0	0.0						0.0
Apr-29-2015	0.0	0.0						0.0
Apr-30-2015	0.0	0.0						0.0
May-01-2015	0.0	0.0						0.0
May-02-2015	0.0	0.0						0.0
May-03-2015	0.0	0.0						0.0
May-04-2015	0.0	0.0						0.0
May-05-2015	0.0	0.0						0.0
May-06-2015	0.0	0.0						0.0
May-07-2015	0.3	0.5	0.0040				6,580.0	3.4
May-08-2015	0.0	0.0						0.0
May-09-2015	0.0	0.0						0.0
May-10-2015	0.0	0.0						0.0
May-11-2015	0.0	0.0						0.0
May-12-2015	1.7	3.4	0.0100				6,580.0	22.7
May-13-2015	0.0	0.0	0.0329	11.2	6,580.0	6,430.0	6,580.0	0.2
May-14-2015	0.0	0.0						0.0
May-15-2015	0.0	0.0						0.0
May-16-2015	0.6	1.2	0.0370				6,930.0	8.1
May-17-2015	0.1	0.1	0.0380				6,930.0	1.0
May-18-2015	0.0	0.0						0.0
May-19-2015	0.0	0.0						0.0
May-20-2015	0.0	0.0						0.0
May-21-2015	0.0	0.0						0.0
May-22-2015	0.0	0.0						0.0
May-23-2015	0.0	0.0						0.0
May-24-2015	0.0	0.0						0.0
May-25-2015	0.0	0.0						0.0
May-26-2015	0.0	0.0						0.0
May-27-2015	0.0	0.0						0.0
May-28-2015	0.0	0.0						0.0
May-29-2015	0.0	0.0						0.0
May-30-2015	0.0	0.0						0.0
May-31-2015	0.0	0.0						0.0
Jun-01-2015	0.0	0.0						0.0
Jun-02-2015	0.0	0.0						0.0
Jun-03-2015	0.0	0.0						0.0
Jun-04-2015	0.0	0.0						0.0
Jun-05-2015	0.0	0.0						0.0
Jun-06-2015	0.0	0.0						0.0
Jun-07-2015	0.0	0.0						0.0
Jun-08-2015	0.0	0.0						0.0
Jun-09-2015	0.0	0.0						0.0
Jun-10-2015	0.0	0.0						0.0
Jun-11-2015	0.0	0.0						0.0
Jun-12-2015	0.0	0.0						0.0
Jun-13-2015	0.0	0.0						0.0
Jun-14-2015	0.0	0.0						0.0
Jun-15-2015	0.0	0.0						0.0
Jun-16-2015	0.0	0.0						0.0
Jun-17-2015	0.0	0.0						0.0
Jun-18-2015	0.0	0.0						0.0
Jun-19-2015	0.0	0.0						0.0
Jun-20-2015	0.0	0.0						0.0
Jun-21-2015	0.0	0.0						0.0
Jun-22-2015	0.0	0.0						0.0

PARAMETER	Flow	Discharge	Total Selenium	Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons
Jun-23-2015	0.0	0.0						0.0
Jun-24-2015	0.0	0.0						0.0
Jun-25-2015	0.0	0.0						0.0
Jun-26-2015	0.0	0.0						0.0
Jun-27-2015	0.0	0.0						0.0
Jun-28-2015	0.0	0.0						0.0
Jun-29-2015	0.0	0.0						0.0
Jun-30-2015	0.0	0.0						0.0
Jul-01-2015	0.0	0.0						0.0
Jul-02-2015	0.0	0.0						0.0
Jul-03-2015	0.0	0.0						0.0
Jul-04-2015	0.0	0.0						0.0
Jul-05-2015	0.0	0.0						0.0
Jul-06-2015	0.0	0.0						0.0
Jul-07-2015	0.0	0.0						0.0
Jul-08-2015	0.0	0.0						0.0
Jul-09-2015	0.0	0.0						0.0
Jul-10-2015	0.0	0.0						0.0
Jul-11-2015	0.0	0.0						0.0
Jul-12-2015	0.0	0.0						0.0
Jul-13-2015	0.0	0.0						0.0
Jul-14-2015	0.0	0.0						0.0
Jul-15-2015	0.0	0.0						0.0
Jul-16-2015	0.0	0.0						0.0
Jul-17-2015	0.0	0.0						0.0
Jul-18-2015	0.0	0.0						0.0
Jul-19-2015	0.0	0.0						0.0
Jul-20-2015	0.0	0.0						0.0
Jul-21-2015	0.0	0.0						0.0
Jul-22-2015	0.1	0.1	0.0026	4.8	2,300.0		2,300.0	0.3
Jul-23-2015	0.0	0.0						0.0
Jul-24-2015	0.0	0.0						0.0
Jul-25-2015	0.0	0.0						0.0
Jul-26-2015	0.0	0.0						0.0
Jul-27-2015	0.0	0.0						0.0
Jul-28-2015	0.0	0.0						0.0
Jul-29-2015	0.0	0.0						0.0
Jul-30-2015	0.0	0.0						0.0
Jul-31-2015	0.0	0.0						0.0
Aug-01-2015	0.0	0.0						0.0
Aug-02-2015	0.0	0.0						0.0
Aug-03-2015	0.0	0.0						0.0
Aug-04-2015	0.0	0.0						0.0
Aug-05-2015	0.0	0.0						0.0
Aug-06-2015	0.0	0.0						0.0
Aug-07-2015	0.0	0.0						0.0
Aug-08-2015	0.0	0.0						0.0
Aug-09-2015	0.0	0.0						0.0
Aug-10-2015	0.0	0.0						0.0
Aug-11-2015	0.0	0.0						0.0
Aug-12-2015	0.0	0.0						0.0
Aug-13-2015	0.0	0.0						0.0
Aug-14-2015	0.0	0.0						0.0
Aug-15-2015	0.0	0.0						0.0
Aug-16-2015	0.0	0.0						0.0
Aug-17-2015	0.0	0.0						0.0
Aug-18-2015	0.0	0.0						0.0
Aug-19-2015	0.0	0.0						0.0
Aug-20-2015	0.0	0.0						0.0
Aug-21-2015	0.0	0.0						0.0
Aug-22-2015	0.0	0.0						0.0
Aug-23-2015	0.0	0.0						0.0
Aug-24-2015	0.0	0.0						0.0
Aug-25-2015	0.0	0.0						0.0
Aug-26-2015	0.0	0.0						0.0
Aug-27-2015	0.0	0.0						0.0
Aug-28-2015	0.0	0.0						0.0
Aug-29-2015	0.0	0.0						0.0
Aug-30-2015	0.0	0.0						0.0
Aug-31-2015	0.0	0.0						0.0
Sep-01-2015	0.0	0.0						0.0
Sep-02-2015	0.0	0.0						0.0
Sep-03-2015	0.0	0.0						0.0
Sep-04-2015	0.0	0.0						0.0
Sep-05-2015	0.0	0.0						0.0
Sep-06-2015	0.0	0.0						0.0
Sep-07-2015	0.0	0.0						0.0
Sep-08-2015	0.0	0.0						0.0
Sep-09-2015	0.0	0.0						0.0
Sep-10-2015	0.0	0.0						0.0
Sep-11-2015	0.0	0.0						0.0
Sep-12-2015	0.0	0.0						0.0
Sep-13-2015	0.0	0.0						0.0
Sep-14-2015	0.0	0.0						0.0
Sep-15-2015	0.0	0.0						0.0
Sep-16-2015	0.0	0.0						0.0
Sep-17-2015	0.0	0.0						0.0
Sep-18-2015	0.0	0.0						0.0

PARAMETER	Flow	Discharge	Total Selenium	Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons
Sep-19-2015	0.0	0.0						0.0
Sep-20-2015	0.0	0.0						0.0
Sep-21-2015	0.0	0.0						0.0
Sep-22-2015	0.0	0.0						0.0
Sep-23-2015	0.0	0.0						0.0
Sep-24-2015	0.0	0.0						0.0
Sep-25-2015	0.0	0.0						0.0
Sep-26-2015	0.0	0.0						0.0
Sep-27-2015	0.0	0.0						0.0
Sep-28-2015	0.0	0.0						0.0
Sep-29-2015	0.0	0.0						0.0
Sep-30-2015	0.0	0.0						0.0
Oct-01-2015	0.0	0.0						0.0
Oct-02-2015	0.0	0.0						0.0
Oct-03-2015	0.0	0.0						0.0
Oct-04-2015	0.0	0.0						0.0
Oct-05-2015	0.0	0.0						0.0
Oct-06-2015	0.0	0.0						0.0
Oct-07-2015	0.0	0.0						0.0
Oct-08-2015	0.0	0.0						0.0
Oct-09-2015	0.0	0.0						0.0
Oct-10-2015	0.0	0.0						0.0
Oct-11-2015	0.0	0.0						0.0
Oct-12-2015	0.0	0.0						0.0
Oct-13-2015	0.0	0.0						0.0
Oct-14-2015	0.0	0.0						0.0
Oct-15-2015	0.0	0.0						0.0
Oct-16-2015	0.0	0.0						0.0
Oct-17-2015	0.0	0.0						0.0
Oct-18-2015	0.0	0.0						0.0
Oct-19-2015	0.0	0.0						0.0
Oct-20-2015	0.0	0.0						0.0
Oct-21-2015	0.0	0.0						0.0
Oct-22-2015	0.0	0.0						0.0
Oct-23-2015	0.0	0.0						0.0
Oct-24-2015	0.0	0.0						0.0
Oct-25-2015	0.0	0.0						0.0
Oct-26-2015	0.0	0.0						0.0
Oct-27-2015	0.0	0.0						0.0
Oct-28-2015	0.0	0.0						0.0
Oct-29-2015	0.0	0.0						0.0
Oct-30-2015	0.0	0.0						0.0
Oct-31-2015	0.0	0.0						0.0
Nov-01-2015	0.0	0.0						0.0
Nov-02-2015	0.0	0.0						0.0
Nov-03-2015	30.4	60.3					6,340.0	384.6
Nov-04-2015	17.1	34.0	0.0264	10.8	6,340.0	7,620.0	6,340.0	216.9
Nov-05-2015	0.0	0.0						0.0
Nov-06-2015	0.0	0.0						0.0
Nov-07-2015	0.0	0.0						0.0
Nov-08-2015	0.0	0.0						0.0
Nov-09-2015	1.6	3.1					7,910.0	24.7
Nov-10-2015	6.4	12.6					7,910.0	100.2
Nov-11-2015	3.1	6.1	0.0140	14.6	7,910.0	6,090.0	7,910.0	48.2
Nov-12-2015	0.0	0.0						0.0
Nov-13-2015	0.0	0.0						0.0
Nov-14-2015	0.0	0.0						0.0
Nov-15-2015	3.5	6.9					8,680.0	60.5
Nov-16-2015	7.7	15.2					8,680.0	133.1
Nov-17-2015	4.5	9.0					8,680.0	78.4
Nov-18-2015	7.0	13.9	0.0168	16.0	8,680.0	8,515.0	8,680.0	120.9
Nov-19-2015	0.5	1.0					8,850.0	9.0
Nov-20-2015	0.0	0.0						0.0
Nov-21-2015	0.0	0.0						0.0
Nov-22-2015	0.0	0.0						0.0
Nov-23-2015	0.0	0.0						0.0
Nov-24-2015	17.5	34.8					8,850.0	309.6
Nov-25-2015	23.0	45.6	0.0148	16.3	8,850.0	5,010.0	8,850.0	406.0
Nov-26-2015	31.0	61.4					6,950.0	429.2
Nov-27-2015	20.7	41.1					6,950.0	287.4
Nov-28-2015	26.5	52.5					6,950.0	366.8
Nov-29-2015	8.5	16.9					6,950.0	117.8
Nov-30-2015	0.0	0.0					6,950.0	0.1
Dec-01-2015	0.0	0.0						0.0
Dec-02-2015	0.0	0.0						0.0
Dec-03-2015	0.0	0.0						0.0
Dec-04-2015	0.0	0.0						0.0
Dec-05-2015	0.0	0.0						0.0
Dec-06-2015	0.0	0.0						0.0
Dec-07-2015	0.0	0.0						0.0
Dec-08-2015	2.2	4.4					10,200.0	44.7
Dec-09-2015	15.1	29.9	0.0189	17.8	10,200.0	9,050.0	10,200.0	306.6
Dec-10-2015	29.0	57.5					8,130.0	470.0
Dec-11-2015	23.5	46.7					8,130.0	381.7
Dec-12-2015	16.2	32.0					8,130.0	262.0
Dec-13-2015	20.6	40.8					8,130.0	333.5
Dec-14-2015	20.2	40.1					8,130.0	327.9
Dec-15-2015	22.1	43.8					8,130.0	357.8

PARAMETER	Flow	Discharge	Total Selenium	Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons
Dec-16-2015	16.1	31.9	0.0210	15.3	8,130.0	7,830.0	8,130.0	261.0
Dec-17-2015	16.5	32.8					8,140.0	268.6
Dec-18-2015	17.7	35.1					8,140.0	287.5
Dec-19-2015	24.6	48.8					8,140.0	399.7
Dec-20-2015	35.0	69.5					8,140.0	568.9
Dec-21-2015	24.4	48.4					8,140.0	395.8
Dec-22-2015	17.7	35.1					8,140.0	287.4
Dec-23-2015	22.1	43.9	0.0206	15.4	8,140.0	7,060.0	8,140.0	359.6
Dec-24-2015	19.0	37.7					7,750.0	294.0
Dec-25-2015	16.6	32.9					7,750.0	256.7
Dec-26-2015	16.3	32.4					7,750.0	252.6
Dec-27-2015	15.3	30.4					7,750.0	237.1
Dec-28-2015	15.3	30.3					7,750.0	236.1
Dec-29-2015	14.4	28.6					7,750.0	223.1
Dec-30-2015	12.8	25.3	0.0190	14.5	7,750.0	6,970.0	7,750.0	197.4
Dec-31-2015	11.1	22.0					9,030.0	199.5

NOTES: Site A auto sampler was removed due to no flow. Auto sampler will be reinstalled during winter for storm events.

Table 1b. Monthly averages and totals

PARAMETER	Total Flow	Discharge	Average Selenium Concentration	Average Boron	Average Specific Conductance (*)	Average Field Grab	Average Daily Specific Conductance	Salt Load	Salt Load Objective (Critical Year)
DATA SOURCE	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	UA3
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons	tons
Jan-15	8.7	532.9	0.0288	16.1	8,436	8,800	8,436	4,590	3,626
Feb-15	9.3	515.4	0.0238	15.6	8,120	7,700	7,823	3,873	5,739
Mar-15	9.2	566.5	0.0340	14.6	7,800	6,718	7,716	4,321	6,799
Apr-15	1.6	94.5	0.0288	16.2	8,695	8,040	8,317	783	5,003
May-15	0.1	5.3	0.0244	11.2	6,580	6,430	6,720	35	4,903
Jun-15	0.0	0.0	N/A	N/A	N/A	N/A	N/A	0	5,072
Jul-15	0.0	0.1	0.0026	4.8	2,300	N/A	2,300	0	5,126
Aug-15	0.0	0.0	N/A	N/A	N/A	N/A	N/A	0	4,549
Sep-15	0.0	0.0	N/A	N/A	N/A	N/A	N/A	0	2,403
Oct-15	0.0	0.0	N/A	N/A	N/A	N/A	N/A	0	1,845
Nov-15	7.0	414.4	0.0180	14.4	7,945	6,809	7,790	3,093	1,918
Dec-15	14.3	880.4	0.0199	15.8	8,555	7,728	8,232	7,209	2,118
<b>Calendar Year Totals/Avgs:</b>		3,010	0.023	13.6	7,304	7,461	7,167	23,905	49,100

NOTES:



**Table 2a. Water monitoring of San Luis Drain discharge into Mud Slough (north)  
Terminus of drain at Mud Slough (Station B2) and San Luis Drain at Gun Club Road (Station B3)**

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B3)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs
Jan-01-2015	24.4	48.5	0.0367	10.7	6,510.0	0.0367	6,510	4.8
Jan-02-2015	21.1	41.9	0.0344	10.8	6,460.0	0.0344	6,460	3.9
Jan-03-2015	19.8	39.3	0.0308	10.5	6,270.0	0.0308	6,270	3.3
Jan-04-2015	16.2	32.2	0.0327	10.8	6,420.0	0.0327	6,420	2.9
Jan-05-2015	14.9	29.5	0.0267	9.4	5,830.0	0.0267	5,830	2.1
Jan-06-2015	9.7	19.2	0.0230	8.6	5,460.0	0.0230	5,460	1.2
Jan-07-2015	5.7	11.3	0.0302	7.4	4,840.0	0.0302	4,840	0.9
Jan-08-2015	8.0	15.9	0.0399	7.6	5,270.0	0.0399	5,270	1.7
Jan-09-2015	6.4	12.7	0.0368	8.9	5,750.0	0.0368	5,750	1.3
Jan-10-2015	5.7	11.2	0.0353	9.3	5,820.0	0.0353	5,820	1.1
Jan-11-2015	5.6	11.2	0.0331	8.8	5,630.0	0.0331	5,630	1.0
Jan-12-2015	6.1	12.1	0.0283	8.9	5,610.0	0.0283	5,610	0.9
Jan-13-2015	7.0	13.9	0.0241	9.2	5,860.0	0.0241	5,860	0.9
Jan-14-2015	6.4	12.7	0.0200	8.6	5,410.0	0.0200	5,410	0.7
Jan-15-2015	7.8	15.6	0.0156	7.8	5,000.0	0.0156	5,000	0.7
Jan-16-2015	9.3	18.5	0.0130	7.2	4,620.0	0.0130	4,620	0.7
Jan-17-2015	9.4	18.6	0.0138	7.5	4,720.0	0.0138	4,720	0.7
Jan-18-2015	8.9	17.7	0.0110	7.5	4,720.0	0.0110	4,720	0.5
Jan-19-2015	9.8	19.4	0.0077	6.3	4,040.0	0.0077	4,040	0.4
Jan-20-2015	11.7	23.1	0.0099	8.1	4,830.0	0.0099	4,830	0.6
Jan-21-2015	13.7	27.2	0.0089	10.8	6,030.0	0.0089	6,030	0.7
Jan-22-2015	12.6	25.0	0.0111	14.5	7,700.0	0.0111	7,700	0.8
Jan-23-2015	12.1	23.9	0.0106	14.3	7,700.0	0.0106	7,700	0.7
Jan-24-2015	11.8	23.5	0.0110	12.7	6,910.0	0.0110	6,910	0.7
Jan-25-2015	29.0	57.5	0.0114	11.7	6,430.0	0.0114	6,430	1.8
Jan-26-2015	18.5	36.7	0.0137	11.3	6,240.0	0.0137	6,240	1.4
Jan-27-2015	20.1	39.9	0.0134	11.2	6,170.0	0.0134	6,170	1.5
Jan-28-2015	27.7	54.9	0.0176	12.0	6,470.0	0.0176	6,470	2.6
Jan-29-2015	36.1	71.7	0.0166	16.1	8,390.0	0.0166	8,390	3.2
Jan-30-2015	41.5	82.3	0.0213	16.9	8,850.0	0.0213	8,850	4.8
Jan-31-2015	21.3	42.3	0.0239	15.6	8,270.0	0.0239	8,270	2.7
Feb-01-2015	7.0	14.0	0.0234	14.3	7,740.0	0.0234	7,740	0.9
Feb-02-2015	5.7	11.4	0.0256	13.4	7,440.0	0.0256	7,440	0.8
Feb-03-2015	5.7	11.3	0.0271	13.5	7,460.0	0.0271	7,460	0.8
Feb-04-2015	6.1	12.1	0.0260	13.3	7,330.0	0.0260	7,330	0.9
Feb-05-2015	5.9	11.8	0.0249	12.9	7,110.0	0.0249	7,110	0.8
Feb-06-2015	18.4	36.6	0.0231	12.1	6,790.0	0.0231	6,790	2.3
Feb-07-2015	43.8	86.9	0.0159	10.3	5,950.0	0.0159	5,950	3.8
Feb-08-2015	44.7	88.7	0.0140	12.2	6,590.0	0.0140	6,590	3.4
Feb-09-2015	36.0	71.3	0.0210	13.7	7,460.0	0.0210	7,460	4.1
Feb-10-2015	23.9	47.5	0.0284	12.2	6,960.0	0.0284	6,960	3.7
Feb-11-2015	8.7	17.3	0.0308	11.7	6,860.0	0.0308	6,860	1.4
Feb-12-2015	6.1	12.1	0.0308	11.7	6,840.0	0.0308	6,840	1.0
Feb-13-2015	5.7	11.3	0.0300	11.8	6,880.0	0.0300	6,880	0.9
Feb-14-2015	5.7	11.2	0.0289	11.4	6,790.0	0.0289	6,790	0.9
Feb-15-2015	5.6	11.2	0.0281	11.2	6,700.0	0.0281	6,700	0.9
Feb-16-2015	5.7	11.2	0.0270	11.0	6,590.0	0.0270	6,590	0.8
Feb-17-2015	5.7	11.2	0.0275	10.9	6,570.0	0.0275	6,570	0.8
Feb-18-2015	5.6	11.1	0.0240	10.3	6,250.0	0.0240	6,250	0.7
Feb-19-2015	5.6	11.1	0.0219	9.8	6,030.0	0.0219	6,030	0.7
Feb-20-2015	5.5	10.9	0.0203	9.6	5,900.0	0.0203	5,900	0.6
Feb-21-2015	5.5	11.0	0.0186	9.4	5,880.0	0.0186	5,880	0.6
Feb-22-2015	5.5	10.9	0.0176	9.5	5,880.0	0.0176	5,880	0.5
Feb-23-2015	5.5	11.0	0.0169	9.5	5,890.0	0.0169	5,890	0.5
Feb-24-2015	12.3	24.5	0.0168	9.5	5,960.0	0.0168	5,960	1.1
Feb-25-2015	29.4	58.4	0.0064	6.2	3,850.0	0.0064	3,850	1.0
Feb-26-2015	24.5	48.5	0.0049	7.0	4,020.0	0.0049	4,020	0.6
Feb-27-2015	26.4	52.4	0.0096	13.2	6,740.0	0.0096	6,740	1.4
Feb-28-2015	30.9	61.3	0.0173	13.3	6,860.0	0.0173	6,860	2.9
Mar-01-2015	14.8	29.4	0.0215	11.7	6,310.0	0.0215	6,310	1.7
Mar-02-2015	6.8	13.5	0.0239	10.9	6,050.0	0.0239	6,050	0.9
Mar-03-2015	5.9	11.7	0.0239	10.8	6,050.0	0.0239	6,050	0.8
Mar-04-2015	15.6	30.9	0.0264	11.1	6,190.0	0.0264	6,190	2.2
Mar-05-2015	29.0	57.6	0.0248	10.1	5,900.0	0.0248	5,900	3.9
Mar-06-2015	29.3	58.1	0.0204	10.2	5,890.0	0.0204	5,890	3.2
Mar-07-2015	26.3	52.3	0.0305	13.4	4,960.0	0.0305	4,960	4.3
Mar-08-2015	16.2	32.1	0.0375	12.1	6,670.0	0.0375	6,670	3.3
Mar-09-2015	7.4	14.6	0.0389	11.9	6,600.0	0.0389	6,600	1.5
Mar-10-2015	5.7	11.3	0.0388	11.9	6,660.0	0.0388	6,660	1.2
Mar-11-2015	5.6	11.1	0.0187	9.2	5,540.0	0.0187	5,540	0.6
Mar-12-2015	5.4	10.7	0.0188	9.4	5,530.0	0.0188	5,530	0.5
Mar-13-2015	5.5	11.0	0.0186	9.3	5,550.0	0.0186	5,550	0.6
Mar-14-2015	5.5	10.9	0.0186	9.4	5,550.0	0.0186	5,550	0.6
Mar-15-2015	5.4	10.8	0.0187	9.4	5,560.0	0.0187	5,560	0.5
Mar-16-2015	5.7	11.2	0.0186	9.4	5,540.0	0.0186	5,540	0.6
Mar-17-2015	7.5	14.9	0.0186	9.3	5,570.0	0.0186	5,570	0.8
Mar-18-2015	8.1	16.2	0.0185	9.1	5,270.0	0.0185	5,270	0.8
Mar-19-2015	7.6	15.1	0.0203	8.8	5,290.0	0.0203	5,290	0.8
Mar-20-2015	8.0	15.8	0.0220	8.8	5,340.0	0.0220	5,340	0.9
Mar-21-2015	11.8	23.4	0.0211	9.8	5,770.0	0.0211	5,770	1.3
Mar-22-2015	23.0	45.6	0.0097	10.3	5,640.0	0.0097	5,640	1.2
Mar-23-2015	27.6	54.6	0.0178	14.2	7,450.0	0.0178	7,450	2.6
Mar-24-2015	25.7	51.1	0.0458	12.5	7,250.0	0.0458	7,250	6.4
Mar-25-2015	20.1	39.9	0.0424	12.4	7,150.0	0.0424	7,150	4.6
Mar-26-2015	17.1	33.9	0.0366	12.2	7,110.0	0.0366	7,110	3.4

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B3)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs
Mar-27-2015	14.1	28.0	0.0358	11.8	6,940.0	0.0358	6,940	2.7
Mar-28-2015	7.2	14.3	0.0357	11.8	6,920.0	0.0357	6,920	1.4
Mar-29-2015	5.4	10.8	0.0334	11.8	6,930.0	0.0334	6,930	1.0
Mar-30-2015	4.9	9.8	0.0328	11.8	6,930.0	0.0328	6,930	0.9
Mar-31-2015	3.5	7.0	0.0325	11.8	6,990.0	0.0325	6,990	0.6
Apr-01-2015	2.0	4.0	0.0307	11.7	7,420.0	0.0307	7,420	0.3
Apr-02-2015	1.0	1.9	0.0299	11.8	7,450.0	0.0299	7,450	0.2
Apr-03-2015	1.4	2.8	0.0295	11.9	7,450.0	0.0295	7,450	0.2
Apr-04-2015	1.1	2.2	0.0282	11.8	7,460.0	0.0282	7,460	0.2
Apr-05-2015	1.1	2.2	0.0276	12.0	7,490.0	0.0276	7,490	0.2
Apr-06-2015	1.1	2.2	0.0268	11.8	7,520.0	0.0268	7,520	0.2
Apr-07-2015	1.6	3.2	0.0262	11.9	7,500.0	0.0262	7,500	0.2
Apr-08-2015	1.6	3.2	0.0247	11.9	7,270.0	0.0247	7,270	0.2
Apr-09-2015	1.5	3.0	0.0240	12.0	7,270.0	0.0240	7,270	0.2
Apr-10-2015	3.1	6.2	0.0220	11.7	7,160.0	0.0220	7,160	0.4
Apr-11-2015	6.6	13.1	0.0201	11.3	6,940.0	0.0201	6,940	0.7
Apr-12-2015	6.3	12.4	0.0165	10.0	6,220.0	0.0165	6,220	0.6
Apr-13-2015	6.2	12.4	0.0166	10.0	6,220.0	0.0166	6,220	0.6
Apr-14-2015	5.2	10.3	0.0142	9.3	5,840.0	0.0142	5,840	0.4
Apr-15-2015	5.6	11.0	0.0117	8.3	5,370.0	0.0117	5,370	0.4
Apr-16-2015	5.7	11.2	0.0116	8.1	5,250.0	0.0116	5,250	0.4
Apr-17-2015	5.5	10.8	0.0131	9.9	6,130.0	0.0131	6,130	0.4
Apr-18-2015	5.1	10.0	0.0133	10.5	6,530.0	0.0133	6,530	0.4
Apr-19-2015	3.9	7.8	0.0133	10.5	6,410.0	0.0133	6,410	0.3
Apr-20-2015	2.1	4.1	0.0129	10.6	6,470.0	0.0129	6,470	0.1
Apr-21-2015	1.2	2.5	0.0126	11.0	6,760.0	0.0126	6,760	0.1
Apr-22-2015	0.7	1.4	0.0122	11.1	6,940.0	0.0122	6,940	0.0
Apr-23-2015	0.2	0.4	0.0120	11.2	6,950.0	0.0120	6,950	0.0
Apr-24-2015	0.1	0.1	0.0110	11.3	6,980.0	0.0110	6,980	0.0
Apr-25-2015	0.1	0.2	0.0111	11.4	7,070.0	0.0111	7,070	0.0
Apr-26-2015	0.0	0.0	0.0100	11.5	7,100.0	0.0100	7,100	0.0
Apr-27-2015	0.0	0.0	0.0100	11.8	7,090.0	0.0100	7,090	0.0
Apr-28-2015	0.0	0.0	0.0101	11.7	7,030.0	0.0101	7,030	0.0
Apr-29-2015	0.0	0.0	0.0106	12.8	7,340.0	0.0106	7,340	0.0
Apr-30-2015	0.0	0.0	0.0097	12.7	7,340.0	0.0097	7,340	0.0
May-01-2015	0.0	0.0	0.0086	12.8	7,420.0	0.0086	7,420	0.0
May-02-2015	0.0	0.0	0.0088	12.9	7,340.0	0.0088	7,340	0.0
May-03-2015	0.0	0.0	0.0077	12.8	7,330.0	0.0077	7,330	0.0
May-04-2015	0.0	0.0	0.0080	12.7	7,340.0	0.0080	7,340	0.0
May-05-2015	0.0	0.0	0.0076	12.0	7,510.0	0.0076	7,510	0.0
May-06-2015	0.0	0.0	0.0074	12.0	7,530.0	0.0074	7,530	0.0
May-07-2015	0.0	0.0	0.0078	11.9	7,510.0	0.0078	7,510	0.0
May-08-2015	0.0	0.0	0.0073	11.9	7,470.0	0.0073	7,470	0.0
May-09-2015	0.0	0.0	0.0071	12.0	7,450.0	0.0071	7,450	0.0
May-10-2015	0.0	0.0	0.0071	12.0	7,500.0	0.0071	7,500	0.0
May-11-2015	0.0	0.0	0.0071	12.0	7,540.0	0.0071	7,540	0.0
May-12-2015	0.0	0.0				0.0072	7,655	0.0
May-13-2015	0.0	0.0	0.0073	12.8	7,770.0	0.0073	7,770	0.0
May-14-2015	0.0	0.0	0.0069	12.7	7,800.0	0.0069	7,800	0.0
May-15-2015	0.0	0.0	0.0069	12.8	7,810.0	0.0069	7,810	0.0
May-16-2015	0.0	0.0	0.0068	13.0	7,830.0	0.0068	7,830	0.0
May-17-2015	0.0	0.0	0.0067	13.0	7,820.0	0.0067	7,820	0.0
May-18-2015	0.0	0.0	0.0067	13.0	7,840.0	0.0067	7,840	0.0
May-19-2015	0.0	0.0	0.0066	13.0	7,830.0	0.0066	7,830	0.0
May-20-2015	0.0	0.0	0.0065	13.5	7,940.0	0.0065	7,940	0.0
May-21-2015	0.0	0.0	0.0062	13.8	8,090.0	0.0062	8,090	0.0
May-22-2015	0.0	0.0	0.0064	13.8	8,090.0	0.0064	8,090	0.0
May-23-2015	0.0	0.0	0.0063	13.8	8,130.0	0.0063	8,130	0.0
May-24-2015	0.0	0.0	0.0065	14.0	8,190.0	0.0065	8,190	0.0
May-25-2015	0.0	0.0	0.0064	13.7	8,120.0	0.0064	8,120	0.0
May-26-2015	0.0	0.0	0.0067	13.7	8,230.0	0.0067	8,230	0.0
May-27-2015	0.0	0.0	0.0070	14.1	8,220.0	0.0070	8,220	0.0
May-28-2015	0.0	0.0	0.0065	14.4	8,220.0	0.0065	8,220	0.0
May-29-2015	0.0	0.0	0.0066	14.4	8,340.0	0.0066	8,340	0.0
May-30-2015	0.0	0.0	0.0067	14.8	8,490.0	0.0067	8,490	0.0
May-31-2015	0.0	0.0	0.0069	14.3	8,320.0	0.0069	8,320	0.0
Jun-01-2015	0.0	0.0	0.0070	14.3	8,250.0	0.0070	8,250	0.0
Jun-02-2015	0.0	0.0	0.0069	14.7	8,520.0	0.0069	8,520	0.0
Jun-03-2015	0.0	0.0	0.0063	14.9	8,610.0	0.0063	8,610	0.0
Jun-04-2015	0.0	0.0	0.0068	15.1	7,710.0	0.0068	7,710	0.0
Jun-05-2015	0.0	0.0	0.0065	15.2	8,690.0	0.0065	8,690	0.0
Jun-06-2015	0.0	0.0	0.0067	15.3	8,760.0	0.0067	8,760	0.0
Jun-07-2015	0.0	0.0	0.0068	15.5	8,780.0	0.0068	8,780	0.0
Jun-08-2015	0.0	0.0	0.0065	15.3	8,750.0	0.0065	8,750	0.0
Jun-09-2015	0.0	0.0	0.0069	15.5	8,830.0	0.0069	8,830	0.0
Jun-10-2015	0.0	0.0	0.0073	16.6	9,470.0	0.0073	9,470	0.0
Jun-11-2015	0.0	0.0	0.0075	16.7	9,450.0	0.0075	9,450	0.0
Jun-12-2015	0.0	0.0	0.0078	16.6	9,430.0	0.0078	9,430	0.0
Jun-13-2015	0.0	0.0	0.0070	16.8	9,550.0	0.0070	9,550	0.0
Jun-14-2015	0.0	0.0	0.0072	16.8	9,500.0	0.0072	9,500	0.0
Jun-15-2015	0.0	0.0	0.0075	16.8	9,520.0	0.0075	9,520	0.0
Jun-16-2015	0.0	0.0	0.0075	16.9	9,510.0	0.0075	9,510	0.0
Jun-17-2015	0.0	0.0	0.0068	17.1	9,610.0	0.0068	9,610	0.0
Jun-18-2015	0.0	0.0	0.0077	18.0	10,000.0	0.0077	10,000	0.0
Jun-19-2015	0.0	0.0	0.0072	18.0	10,000.0	0.0072	10,000	0.0
Jun-20-2015	0.0	0.0	0.0072	18.0	10,000.0	0.0072	10,000	0.0
Jun-21-2015	0.0	0.0	0.0071	17.1	9,890.0	0.0071	9,890	0.0
Jun-22-2015	0.0	0.0	0.0075	17.6	10,100.0	0.0075	10,100	0.0

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B3)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs
Jun-23-2015	0.0	0.0	0.0077	17.3	10,100.0	0.0077	10,100	0.0
Jun-24-2015	0.0	0.0	0.0083	19.0	10,800.0	0.0083	10,800	0.0
Jun-25-2015	0.0	0.0	0.0082	19.2	10,800.0	0.0082	10,800	0.0
Jun-26-2015	0.0	0.0	0.0069	19.0	10,700.0	0.0069	10,700	0.0
Jun-27-2015	0.0	0.0	0.0071	18.9	10,600.0	0.0071	10,600	0.0
Jun-28-2015	0.0	0.0	0.0071	19.1	10,700.0	0.0071	10,700	0.0
Jun-29-2015	0.0	0.0	0.0068	18.9	10,700.0	0.0068	10,700	0.0
Jun-30-2015	0.0	0.0	0.0075	18.9	10,700.0	0.0075	10,700	0.0
Jul-01-2015	0.0	0.0	0.0077	20.2	11,600.0	0.0077	11,600	0.0
Jul-02-2015	0.0	0.0	0.0076	20.0	11,500.0	0.0076	11,500	0.0
Jul-03-2015	0.0	0.0	0.0073	20.6	11,500.0	0.0073	11,500	0.0
Jul-04-2015	0.0	0.0	0.0070	20.8	11,500.0	0.0070	11,500	0.0
Jul-05-2015	0.0	0.0	0.0071	20.7	11,500.0	0.0071	11,500	0.0
Jul-06-2015	0.0	0.0	0.0075	20.9	11,600.0	0.0075	11,600	0.0
Jul-07-2015	0.0	0.0	0.0081	20.7	11,600.0	0.0081	11,600	0.0
Jul-08-2015	0.0	0.0	0.0079	21.9	12,100.0	0.0079	12,100	0.0
Jul-09-2015	0.0	0.0	0.0075	21.5	12,200.0	0.0075	12,200	0.0
Jul-10-2015	0.0	0.0	0.0078	21.9	12,300.0	0.0078	12,300	0.0
Jul-11-2015	0.0	0.0	0.0074	22.0	12,300.0	0.0074	12,300	0.0
Jul-12-2015	0.0	0.0	0.0074	22.1	12,300.0	0.0074	12,300	0.0
Jul-13-2015	0.0	0.0	0.0074	22.3	12,400.0	0.0074	12,400	0.0
Jul-14-2015	0.0	0.0	0.0076	22.2	12,500.0	0.0076	12,500	0.0
Jul-15-2015	0.0	0.0	0.0078	24.6	13,200.0	0.0078	13,200	0.0
Jul-16-2015	0.0	0.0	0.0081	25.0	13,200.0	0.0081	13,200	0.0
Jul-17-2015	0.0	0.0	0.0078	24.8	13,200.0	0.0078	13,200	0.0
Jul-18-2015	0.0	0.0	0.0076	24.9	13,200.0	0.0076	13,200	0.0
Jul-19-2015	0.0	0.0	0.0076	25.1	13,300.0	0.0076	13,300	0.0
Jul-20-2015	0.0	0.0	0.0079	25.6	13,300.0	0.0079	13,300	0.0
Jul-21-2015	0.0	0.0	0.0083	25.8	13,400.0	0.0083	13,400	0.0
Jul-22-2015	0.0	0.0	0.0083	28.4	14,100.0	0.0083	14,100	0.0
Jul-23-2015	0.0	0.0	0.0082	28.3	14,200.0	0.0082	14,200	0.0
Jul-24-2015	0.0	0.0	0.0079	28.1	14,200.0	0.0079	14,200	0.0
Jul-25-2015	0.0	0.0	0.0081	29.3	14,300.0	0.0081	14,300	0.0
Jul-26-2015	0.0	0.0	0.0083	28.8	14,500.0	0.0083	14,500	0.0
Jul-27-2015	0.0	0.0	0.0082	28.6	14,400.0	0.0082	14,400	0.0
Jul-28-2015	0.0	0.0	0.0084	28.6	14,600.0	0.0084	14,600	0.0
Jul-29-2015	0.0	0.0	0.0091	31.2	15,300.0	0.0091	15,300	0.0
Jul-30-2015	0.0	0.0	0.0092	31.2	15,400.0	0.0092	15,400	0.0
Jul-31-2015	0.0	0.0	0.0087	31.2	15,500.0	0.0087	15,500	0.0
Aug-01-2015	0.0	0.0	0.0089	31.7	15,500.0	0.0089	15,500	0.0
Aug-02-2015	0.0	0.0	0.0091	31.8	15,600.0	0.0091	15,600	0.0
Aug-03-2015	0.0	0.0	0.0092	31.4	15,800.0	0.0092	15,800	0.0
Aug-04-2015	0.0	0.0	0.0094	31.3	15,800.0	0.0094	15,800	0.0
Aug-05-2015	0.0	0.0	0.0093	36.4	17,800.0	0.0093	17,800	0.0
Aug-06-2015	0.0	0.0	0.0094	36.5	17,700.0	0.0094	17,700	0.0
Aug-07-2015	0.0	0.0	0.0101	37.2	18,200.0	0.0101	18,200	0.0
Aug-08-2015	0.0	0.0	0.0093	36.6	17,700.0	0.0093	17,700	0.0
Aug-09-2015	0.0	0.0	0.0101	37.9	18,400.0	0.0101	18,400	0.0
Aug-10-2015	0.0	0.0	0.0103	37.0	18,000.0	0.0103	18,000	0.0
Aug-11-2015	0.0	0.0	0.0104	37.7	18,500.0	0.0104	18,500	0.0
Aug-12-2015	0.0	0.0	0.0109	35.1	17,600.0	0.0109	17,600	0.0
Aug-13-2015	0.0	0.0	0.0112	35.8	17,600.0	0.0112	17,600	0.0
Aug-14-2015	0.0	0.0	0.0110	36.3	17,600.0	0.0110	17,600	0.0
Aug-15-2015	0.0	0.0	0.0114	38.1	17,800.0	0.0114	17,800	0.0
Aug-16-2015	0.0	0.0	0.0115	38.5	18,100.0	0.0115	18,100	0.0
Aug-17-2015	0.0	0.0	0.0116	38.8	18,100.0	0.0116	18,100	0.0
Aug-18-2015	0.0	0.0	0.0118	37.7	18,000.0	0.0118	18,000	0.0
Aug-19-2015	0.0	0.0				0.0114	13,125	0.0
Aug-20-2015	0.0	0.0				0.0114	13,125	0.0
Aug-21-2015	0.0	0.0				0.0114	13,125	0.0
Aug-22-2015	0.0	0.0				0.0114	13,125	0.0
Aug-23-2015	0.0	0.0				0.0114	13,125	0.0
Aug-24-2015	0.0	0.0				0.0114	13,125	0.0
Aug-25-2015	0.0	0.0				0.0114	13,125	0.0
Aug-26-2015	0.0	0.0				0.0114	13,125	0.0
Aug-27-2015	0.0	0.0				0.0114	13,125	0.0
Aug-28-2015	0.0	0.0				0.0114	13,125	0.0
Aug-29-2015	0.0	0.0				0.0114	13,125	0.0
Aug-30-2015	0.0	0.0				0.0114	13,125	0.0
Aug-31-2015	0.0	0.0				0.0114	13,125	0.0
Sep-01-2015	0.0	0.0				0.0114	13,125	0.0
Sep-02-2015	0.0	0.0				0.0114	13,125	0.0
Sep-03-2015	0.0	0.0				0.0114	13,125	0.0
Sep-04-2015	0.0	0.0				0.0114	13,125	0.0
Sep-05-2015	0.0	0.0				0.0114	13,125	0.0
Sep-06-2015	0.0	0.0				0.0114	13,125	0.0
Sep-07-2015	0.0	0.0				0.0114	13,125	0.0
Sep-08-2015	0.0	0.0				0.0114	13,125	0.0
Sep-09-2015	0.0	0.0				0.0114	13,125	0.0
Sep-10-2015	0.0	0.0				0.0114	13,125	0.0
Sep-11-2015	0.0	0.0				0.0114	13,125	0.0
Sep-12-2015	0.0	0.0	0.0109			0.0109	13,125	0.0
Sep-13-2015	0.0	0.0	0.0112			0.0112	13,125	0.0
Sep-14-2015	0.0	0.0	0.0110			0.0110	13,125	0.0
Sep-15-2015	0.0	0.0	0.0114			0.0114	13,125	0.0
Sep-16-2015	0.0	0.0	0.0115			0.0115	13,125	0.0
Sep-17-2015	0.0	0.0	0.0116			0.0116	13,125	0.0
Sep-18-2015	0.0	0.0	0.0118			0.0118	13,125	0.0

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B3)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs
Sep-19-2015	0.0	0.0				0.0117	13,125	0.0
Sep-20-2015	0.0	0.0				0.0117	13,125	0.0
Sep-21-2015	0.0	0.0				0.0117	13,125	0.0
Sep-22-2015	0.0	0.0				0.0117	13,125	0.0
Sep-23-2015	0.0	0.0				0.0117	13,125	0.0
Sep-24-2015	0.0	0.0				0.0117	13,125	0.0
Sep-25-2015	0.0	0.0				0.0117	13,125	0.0
Sep-26-2015	0.0	0.0				0.0117	13,125	0.0
Sep-27-2015	0.0	0.0				0.0117	13,125	0.0
Sep-28-2015	0.0	0.0				0.0117	13,125	0.0
Sep-29-2015	0.0	0.0				0.0117	13,125	0.0
Sep-30-2015	0.0	0.0				0.0117	13,125	0.0
Oct-01-2015	0.0	0.0				0.0117	13,125	0.0
Oct-02-2015	0.0	0.0				0.0117	13,125	0.0
Oct-03-2015	0.0	0.0				0.0117	13,125	0.0
Oct-04-2015	0.0	0.0				0.0117	13,125	0.0
Oct-05-2015	0.0	0.0				0.0117	13,125	0.0
Oct-06-2015	0.0	0.0				0.0117	13,125	0.0
Oct-07-2015	0.0	0.0				0.0117	13,125	0.0
Oct-08-2015	0.0	0.0				0.0117	13,125	0.0
Oct-09-2015	0.0	0.0				0.0117	13,125	0.0
Oct-10-2015	0.0	0.0				0.0117	13,125	0.0
Oct-11-2015	0.0	0.0				0.0117	13,125	0.0
Oct-12-2015	0.0	0.0				0.0117	13,125	0.0
Oct-13-2015	0.0	0.0				0.0117	13,125	0.0
Oct-14-2015	0.0	0.0				0.0117	13,125	0.0
Oct-15-2015	0.0	0.0				0.0117	13,125	0.0
Oct-16-2015	0.0	0.0				0.0117	13,125	0.0
Oct-17-2015	0.0	0.0				0.0117	13,125	0.0
Oct-18-2015	5.1	10.1	0.0115			0.0115	13,125	0.3
Oct-19-2015	5.4	10.7	0.0115			0.0115	13,125	0.3
Oct-20-2015	5.6	11.1	0.0115			0.0115	13,125	0.3
Oct-21-2015						0.0105	13,125	0.0
Oct-22-2015						0.0105	13,125	0.0
Oct-23-2015	0.0	0.0				0.0105	13,125	0.0
Oct-24-2015	0.0	0.0				0.0105	13,125	0.0
Oct-25-2015	0.0	0.0				0.0105	13,125	0.0
Oct-26-2015	0.0	0.0				0.0105	13,125	0.0
Oct-27-2015	0.0	0.0				0.0105	13,125	0.0
Oct-28-2015	0.0	0.0				0.0105	13,125	0.0
Oct-29-2015	0.0	0.0				0.0105	13,125	0.0
Oct-30-2015	0.0	0.0				0.0105	13,125	0.0
Oct-31-2015	0.0	0.0				0.0105	13,125	0.0
Nov-01-2015	0.0	0.0				0.0105	13,125	0.0
Nov-02-2015	0.0	0.0				0.0105	13,125	0.0
Nov-03-2015	0.0	0.0				0.0105	13,125	0.0
Nov-04-2015	0.0	0.0	0.0096	12.6	8,250.0	0.0096	8,250	0.0
Nov-05-2015	5.0	10.0	0.0103	12.6	8,190.0	0.0103	8,190	0.3
Nov-06-2015	3.2	6.4	0.0135	12.5	7,850.0	0.0135	7,850	0.2
Nov-07-2015	0.1	0.1	0.0126	9.8	6,630.0	0.0126	6,630	0.0
Nov-08-2015	0.0	0.0	0.0115	8.6	6,040.0	0.0115	6,040	0.0
Nov-09-2015	0.0	0.0	0.0108	7.6	5,510.0	0.0108	5,510	0.0
Nov-10-2015	0.0	0.0	0.0107	7.2	5,320.0	0.0107	5,320	0.0
Nov-11-2015	0.0	0.0	0.0097	6.4	5,130.0	0.0097	5,130	0.0
Nov-12-2015	0.0	0.0	0.0087	5.1	4,490.0	0.0087	4,490	0.0
Nov-13-2015	0.0	0.0	0.0092	5.0	4,100.0	0.0092	4,100	0.0
Nov-14-2015	0.0	0.0	0.0107	5.5	4,100.0	0.0107	4,100	0.0
Nov-15-2015	0.0	0.0	0.0123	6.7	4,500.0	0.0123	4,500	0.0
Nov-16-2015	0.0	0.0	0.0119	7.0	4,730.0	0.0119	4,730	0.0
Nov-17-2015	0.0	0.0	0.0127	8.2	5,220.0	0.0127	5,220	0.0
Nov-18-2015	4.1	8.2	0.0126	8.5	5,760.0	0.0126	5,760	0.3
Nov-19-2015	5.7	11.4	0.0105	8.8	5,520.0	0.0105	5,520	0.3
Nov-20-2015	5.7	11.2	0.0111	8.7	5,340.0	0.0111	5,340	0.3
Nov-21-2015	5.1	10.1	0.0129	8.5	5,300.0	0.0129	5,300	0.4
Nov-22-2015	4.2	8.3	0.0139	8.1	5,310.0	0.0139	5,310	0.3
Nov-23-2015	2.3	4.6	0.0139	8.0	5,260.0	0.0139	5,260	0.2
Nov-24-2015	1.7	3.3	0.0137	8.0	5,420.0	0.0137	5,420	0.1
Nov-25-2015	3.3	6.5	0.0143	8.2	5,530.0	0.0143	5,530	0.3
Nov-26-2015	18.0	35.6	0.0146	9.0	5,930.0	0.0146	5,930	1.4
Nov-27-2015	18.6	36.8	0.0178	7.9	5,230.0	0.0178	5,230	1.8
Nov-28-2015	18.6	36.9	0.0115	13.2	7,660.0	0.0115	7,660	1.2
Nov-29-2015	18.6	36.9	0.0123	12.4	7,210.0	0.0123	7,210	1.2
Nov-30-2015	18.6	36.9	0.0154	12.2	6,870.0	0.0154	6,870	1.5
Dec-01-2015	11.7	23.3	0.0175	12.2	7,120.0	0.0175	7,120	1.1
Dec-02-2015	5.4	10.7	0.0176	12.9	7,140.0	0.0176	7,140	0.5
Dec-03-2015	4.7	9.3	0.0168	12.8	6,980.0	0.0168	6,980	0.4
Dec-04-2015	3.9	7.7	0.0163	12.4	6,790.0	0.0163	6,790	0.3
Dec-05-2015	4.1	8.2	0.0159	13.0	6,780.0	0.0159	6,780	0.4
Dec-06-2015	4.4	8.6	0.0162	13.0	6,780.0	0.0162	6,780	0.4
Dec-07-2015	4.2	8.3	0.0174	12.9	6,790.0	0.0174	6,790	0.4
Dec-08-2015	4.0	8.0	0.0169	13.0	6,940.0	0.0169	6,940	0.4
Dec-09-2015	4.9	9.8	0.0168	10.8	7,000.0	0.0168	7,000	0.4
Dec-10-2015	11.1	22.1	0.0154	10.4	6,570.0	0.0154	6,570	0.9
Dec-11-2015	29.7	58.9	0.0109	9.5	6,210.0	0.0109	6,210	1.7
Dec-12-2015	29.6	58.7	0.0105	9.2	5,840.0	0.0105	5,840	1.7
Dec-13-2015	19.4	38.4	0.0073	6.5	4,360.0	0.0073	4,360	0.8
Dec-14-2015	16.7	33.2	0.0168	14.4	8,570.0	0.0168	8,570	1.5
Dec-15-2015	25.2	50.0	0.0205	14.8	8,780.0	0.0205	8,780	2.8

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B3)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs
Dec-16-2015	21.4	42.5	0.0205	15.0	8,130.0	0.0205	8,130	2.4
Dec-17-2015	24.7	49.1	0.0205	15.5	8,250.0	0.0205	8,250	2.7
Dec-18-2015	24.1	47.8	0.0205	14.0	7,580.0	0.0205	7,580	2.7
Dec-19-2015	25.8	51.1	0.0205	14.1	7,510.0	0.0205	7,510	2.8
Dec-20-2015	32.3	64.2	0.0205	13.6	7,330.0	0.0205	7,330	3.6
Dec-21-2015	22.2	44.0	0.0205	13.9	7,450.0	0.0205	7,450	2.5
Dec-22-2015	26.5	52.5	0.0205	13.9	7,550.0	0.0205	7,550	2.9
Dec-23-2015	22.4	44.4	0.0205	13.9	7,520.0	0.0205	7,520	2.5
Dec-24-2015	27.6	54.7	0.0205	14.1	7,600.0	0.0205	7,600	3.0
Dec-25-2015	25.5	50.6	0.0205	13.7	7,570.0	0.0205	7,570	2.8
Dec-26-2015	22.7	45.1	0.0205	13.7	7,520.0	0.0205	7,520	2.5
Dec-27-2015	21.5	42.6	0.0205	13.2	7,150.0	0.0205	7,150	2.4
Dec-28-2015	17.7	35.1	0.0205	13.8	7,550.0	0.0205	7,550	2.0
Dec-29-2015	16.9	33.4	0.0186	13.8	7,620.0	0.0186	7,620	1.7
Dec-30-2015	16.1	32.0	0.0178	13.4	7,740.0	0.0178	7,740	1.5
Dec-31-2015	13.7	27.1	0.0171	12.6	7,320.0	0.0171	7,320	1.3

NOTES: Site B auto sampler was removed due to no flow. Auto sampler will be reinstalled during winter for storm events.

Table 2b. Monthly averages and totals

PARAMETER	Total Flow	Discharge	Average Selenium Concentration	Average Boron	Average Specific Conductance (*)	Average Daily Selenium	Average Daily Specific Conductance	Selenium Load	Selenium Load Objective (Dry/Below Normal Year)
DATA SOURCE	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	UA3
UNITS	acre-feet	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs	lbs
Jan-15	15	861	0.0209	10.3	6,057	0.0209	6,057	46	119
Feb-15	14	788	0.0217	11.2	6,476	0.0217	6,476	39	73
Mar-15	12	757	0.0265	10.9	6,165	0.0265	6,165	56	72
Apr-15	2	139	0.0174	11.1	6,866	0.0174	6,866	6	79
May-15	0	0	0.0070	13.1	7,828	0.0070	7,828	0	82
Jun-15	0	0	0.0072	17.0	9,601	0.0072	9,601	0	54
Jul-15	0	0	0.0079	24.8	13,103	0.0079	13,103	0	55
Aug-15	0	0	0.0060	20.8	10,123	0.0107	10,123	0	59
Sep-15	0	0	0.0026	N/A	N/A	0.0115	13,125	0	45
Oct-15	1	43	0.0019	N/A	N/A	0.0112	13,125	1	43
Nov-15	4	263	0.0110	7.9	5,213	0.0120	5,213	10	43
Dec-15	17	1,071	0.0178	12.9	7,227	0.0178	7,227	53	119
<b>Calendar Year Totals/Avgs:</b>		3,922	0.0123	14.0	7,866	0.0143	8,742	211	840

NOTES:

Table 2c. Other water quality monitoring in the San Luis Drain (Station B3)

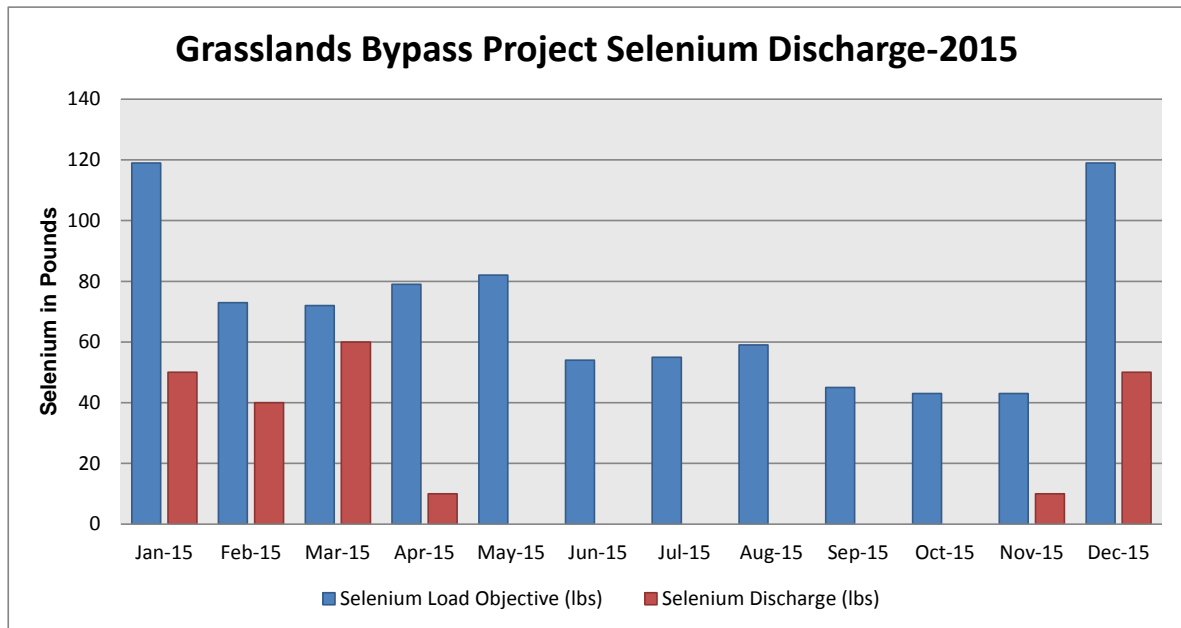
PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L
Jan-09-2015	11.8	8.3	5,783	11.0	4.7	36	11	
Jan-13-2015	20.8	8.4	5,765	11.4	8.6	23	12	16
Jan-23-2015	19.9	8.3	7,608	9.8	11.8	10	18	
Jan-30-2015	9.9	8.0	8,440	17.5	28.5	21	21	
Feb-04-2015	22.3	8.4	7,247	12.7	11.7	26	15	
Feb-13-2015	19.1	8.3	6,854	15.1	13.6	29	15	
Feb-19-2015	13.4	8.2	5,835	16.1		21	11	17
Feb-27-2015	16.0	8.4	7,097	13.6	23.2	10	16	
Mar-06-2015	17.2	8.3	4,739	14.7	17.7	11	9	
Mar-13-2015	13.1	8.2	6,430	18.8	7.2	30	14	
Mar-20-2015	2.7	3.7	5,134	19.2	17.8	19	11	20
Mar-27-2015	16.6	8.5	6,850	20.1	15.1	36	13	
Apr-01-2015	13.0	8.6	6,800	18.8	17.3	29	14	17
Apr-10-2015	20.9	9.1	6,907	16.7	17.1	20	14	
Apr-16-2015	12.7	9.1	6,177	17.0	25.5	13	12	18
Apr-24-2015	10.3	8.7	7,603	21.6	16.2	10	16	
May-01-2015	6.3	8.3	7,654	24.1	20.5	6	16	
May-08-2015	7.0	8.3	7,606	18.7	28.6	6	17	
May-15-2015	4.6	8.2	8,372	21.9	75.6	6	18	
May-21-2015	3.6	8.1	8,262	17.1	70.3	6	19	10
May-27-2015	6.2	8.2	8,643	17.5	81.0	7	20	9
Jun-04-2015		8.7	9,434	19.7	68.0	9	21	
Jun-11-2015	3.4	8.9	10,041	26.5	63.8	9	23	
Jun-17-2015	7.3	8.4	11,091	24.4	33.8	9	26	7
Jun-25-2015	10.0	8.3	13,037	28.3		11	33	
Jun-29-2015	11.9	8.3	14,448	25.5	45.2	15	36	9
Jul-09-2015	7.0	8.8	19,949	28.8	38.2	21	59	
Jul-15-2015	11.7	8.6	24,890	29.0	48.6	23	75	16
Jul-20-2015	14.5	8.4	27,012	32.4	142.0	21	84	
Jul-27-2015								
Aug-06-2015								
Aug-11-2015								
Aug-17-2015								
Aug-24-2015								
Sep-01-2015								
Sep-08-2015								
Sep-18-2015								
Sep-21-2015								
Sep-28-2015								
Oct-05-2015								
Oct-16-2015								
Oct-19-2015								
Oct-26-2015						45		
Nov-06-2015	23.8	8.2	5,682	12.1	18.0	13	10	
Nov-09-2015								
Nov-20-2015	15.5	8.7	5,172	12.5	20.4	14	12	
Nov-23-2015	12.0	8.6	5,420	13.9	21.5	16	10	30
Nov-30-2015	11.4	8.1	6,539	9.8	12.1	1	1	
Dec-07-2015	17.0	8.4	6,788	11.9	13.3	17	15	
Dec-15-2015	10.9	8.2	8,176	9.3	7.1	24	20	
Dec-21-2015	11.3	7.9	7,341	9.2	6.6	18	17	
Dec-29-2015	14.7	8.4	7,381	8.5	8.9	19	18	29

NOTES: Samples only taken when flow is passing site B.

Nutrients					
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N	Total Kjeldahl Nitrogen	Total Phosphorous as P	Ortho-phosphate as P
DATA SOURCE	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
Jan-13-2015	2.60	0.12	2	0.08	< 0.010
Feb-19-2015	1.1 T	0.14 L	2	0.09	< 0.010 T
Apr-01-2015	3.30	0.10	2	0.09	< 0.010
Apr-16-2015	<0.010	0.33	3	0.07	0.01
May-21-2015	<0.010	<0.050	4	0.19	< 0.010 L
May-27-2015	<0.010	<0.050	6.1 U	0.34 U	< 0.010
Jun-17-2015	<0.010	<0.050	5	0.22	0.01
Jun-29-2015	<0.010	<0.050	1	0.27	0.02
Jul-15-2015	<0.50	0.17	3	0.30	0.03
Nov-23-2015	<0.010	0.20			
Dec-29-2015	0.29 T	0.17			

NOTES:

Figure 2. Monthly selenium discharge from the terminus of the San Luis Drain into Mud Slough compared to selenium load objectives



**Table 3a. Water monitoring in Mud Slough (north) below San Luis Drain discharge (Station D)  
USGS Station Code: 11262900**

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Jan-01-2015	86	6.1	2,920
Jan-02-2015	88	6.5	2,760
Jan-03-2015	82	7.0	2,790
Jan-04-2015	76	7.5	2,700
Jan-05-2015	77	8.1	2,600
Jan-06-2015	80	8.8	2,510
Jan-07-2015	75	9.4	2,470
Jan-08-2015	55	10.1	3,100
Jan-09-2015	45	10.9	3,100
Jan-10-2015	40	12.0	3,100
Jan-11-2015	39	12.8	3,040
Jan-12-2015	40	12.7	3,050
Jan-13-2015	40	12.5	3,230
Jan-14-2015	38	11.6	3,270
Jan-15-2015	43	11.4	3,140
Jan-16-2015	49	11.3	3,010
Jan-17-2015	49	11.5	3,000
Jan-18-2015	49	11.8	3,030
Jan-19-2015	49	12.1	2,940
Jan-20-2015	46	12.1	3,060
Jan-21-2015	48	11.8	3,420
Jan-22-2015	56	11.6	3,310
Jan-23-2015	55	10.7	3,670
Jan-24-2015	56	10.5	3,660
Jan-25-2015	68	10.2	3,930
Jan-26-2015	70	10.1	3,590
Jan-27-2015	76	11.2	3,370
Jan-28-2015	77	11.5	3,690
Jan-29-2015	81	12.4	4,680
Jan-30-2015	88	12.8	6,110
Jan-31-2015	71	13.0	4,670
Feb-01-2015	50	13.2	3,630
Feb-02-2015	44	13.2	3,430
Feb-03-2015	42	13.8	3,370
Feb-04-2015	42	14.4	3,510
Feb-05-2015	42	14.4	3,580
Feb-06-2015	49	14.2	3,660
Feb-07-2015	79	14.9	4,380
Feb-08-2015	102	16.2	3,720
Feb-09-2015	108	16.3	4,410
Feb-10-2015	79	16.0	4,150



<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Feb-11-2015	55	15.5	3,340
Feb-12-2015	47	15.4	3,240
Feb-13-2015	43	15.9	3,210
Feb-14-2015	41	16.4	3,220
Feb-15-2015	40	16.7	3,320
Feb-16-2015	40	16.8	3,340
Feb-17-2015	39	16.8	3,360
Feb-18-2015	39	16.6	3,390
Feb-19-2015	49	15.8	3,050
Feb-20-2015	52	15.4	2,980
Feb-21-2015	51	14.8	2,990
Feb-22-2015	47	14.0	3,040
Feb-23-2015	44	13.2	3,080
Feb-24-2015	48	13.1	3,460
Feb-25-2015	70	13.7	3,390
Feb-26-2015	59	14.6	3,450
Feb-27-2015	54	15.2	4,390
Feb-28-2015	64	14.9	4,790
Mar-01-2015	51	14.3	4,040
Mar-02-2015	41	15.2	3,660
Mar-03-2015	43	15.1	3,350
Mar-04-2015	56	15.4	3,560
Mar-05-2015	70	15.8	3,950
Mar-06-2015	71	16.5	3,980
Mar-07-2015	65	16.6	4,480
Mar-08-2015	54	17.2	4,120
Mar-09-2015	49	18.0	3,420
Mar-10-2015	41	18.6	3,480
Mar-11-2015	43	18.7	3,360
Mar-12-2015	41	18.2	3,420
Mar-13-2015	54	18.8	2,810
Mar-14-2015	62	20.2	2,840
Mar-15-2015	70	21.1	2,670
Mar-16-2015	71	19.8	2,650
Mar-17-2015	80	19.4	2,720
Mar-18-2015	70	19.1	2,800
Mar-19-2015	58	18.9	2,890
Mar-20-2015	47	19.1	3,130
Mar-21-2015	44	18.7	3,320
Mar-22-2015	51	19.6	3,850
Mar-23-2015	54	19.4	4,740
Mar-24-2015	52	18.7	4,750
Mar-25-2015	50	18.3	4,500

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Mar-26-2015	46	19.2	4,350
Mar-27-2015	44	20.8	4,270
Mar-28-2015	36	20.8	3,740
Mar-29-2015	29	19.8	3,680
Mar-30-2015	24	20.2	3,850
Mar-31-2015	21	19.8	3,920
Apr-01-2015	25	17.5	3,610
Apr-02-2015	35	16.1	3,300
Apr-03-2015	35	16.1	3,220
Apr-04-2015	29	17.5	3,250
Apr-05-2015	26	17.1	3,390
Apr-06-2015	19	16.1	3,550
Apr-07-2015	18	15.8	3,580
Apr-08-2015	21	15.4	3,420
Apr-09-2015	22	16.9	3,700
Apr-10-2015	22	18.2	3,760
Apr-11-2015	25	19.3	4,400
Apr-12-2015	26	19.1	4,160
Apr-13-2015	24	20.0	4,100
Apr-14-2015	21	18.5	3,960
Apr-15-2015	18	16.6	3,990
Apr-16-2015	17	17.3	4,150
Apr-17-2015	16	19.2	4,000
Apr-18-2015	14	20.3	3,980
Apr-19-2015	13	21.2	4,260
Apr-20-2015	13	22.0	4,080
Apr-21-2015	11	21.0	4,130
Apr-22-2015	10	20.0	4,070
Apr-23-2015	12	21.0	3,160
Apr-24-2015	11	20.6	3,320
Apr-25-2015	8	19.9	3,560
Apr-26-2015	6	19.4	3,760
Apr-27-2015	5	20.9	3,990
Apr-28-2015	4	23.1	4,260
Apr-29-2015	5	23.0	3,710
Apr-30-2015	6	22.4	3,440
May-01-2015	18	23.5	2,580
May-02-2015	18	24.0	2,440
May-03-2015	8	23.2	2,740
May-04-2015	4	22.2	3,450
May-05-2015	3	21.5	4,120
May-06-2015	2	20.8	4,010
May-07-2015	2	18.2	4,450

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
May-08-2015	3	19.4	3,750
May-09-2015	2	21.4	4,050
May-10-2015	1	22.6	4,680
May-11-2015	1	22.1	4,990
May-12-2015	1	20.8	5,070
May-13-2015	0	20.4	5,620
May-14-2015	0	19.5	5,760
May-15-2015	0	20.3	5,890
May-16-2015	0	20.9	6,200
May-17-2015	0	20.1	6,230
May-18-2015	0	20.9	6,230
May-19-2015	0	21.9	6,470
May-20-2015	0	21.6	6,890
May-21-2015	0	20.4	7,020
May-22-2015	0	20.7	7,080
May-23-2015	0	21.4	6,490
May-24-2015	0	22.4	6,860
May-25-2015	0	22.7	7,100
May-26-2015	0	22.9	7,540
May-27-2015	0	23.3	7,610
May-28-2015	0	23.4	7,780
May-29-2015	0	24.1	7,140
May-30-2015	1	24.1	4,600
May-31-2015	0	24.1	5,280
Jun-01-2015	0	23.3	6,400
Jun-02-2015	0	23.8	7,600
Jun-03-2015	0	23.0	8,160
Jun-04-2015	0	22.9	8,320
Jun-05-2015	0	24.4	8,600
Jun-06-2015	0	25.0	8,670
Jun-07-2015	0	26.1	8,610
Jun-08-2015	0	28.0	8,790
Jun-09-2015	0	26.1	8,830
Jun-10-2015	0	24.2	9,030
Jun-11-2015	0	25.8	8,970
Jun-12-2015	0	27.8	9,030
Jun-13-2015	0	28.6	9,110
Jun-14-2015	0	27.5	9,240
Jun-15-2015	0	26.5	9,260
Jun-16-2015	0	25.8	9,370
Jun-17-2015	0	26.3	9,360
Jun-18-2015	0	26.2	9,340
Jun-19-2015	0	25.4	9,420

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Jun-20-2015	0	25.8	9,500
Jun-21-2015	0	25.9	9,560
Jun-22-2015	0	24.8	9,660
Jun-23-2015	0	25.0	9,780
Jun-24-2015	0	25.9	9,920
Jun-25-2015	0	27.1	10,200
Jun-26-2015	0	28.0	10,300
Jun-27-2015	0	27.3	10,400
Jun-28-2015	0	26.9	10,500
Jun-29-2015	0	27.0	10,600
Jun-30-2015	0	27.0	10,700
Jul-01-2015	0	27.4	10,800
Jul-02-2015	0	26.0	10,900
Jul-03-2015	0	27.2	11,000
Jul-04-2015	0	27.9	11,200
Jul-05-2015	0	27.6	11,400
Jul-06-2015	0	26.4	11,400
Jul-07-2015	0	25.7	11,500
Jul-08-2015	0	25.4	11,600
Jul-09-2015	0	24.8	11,700
Jul-10-2015	0	24.0	11,700
Jul-11-2015	0	24.6	11,700
Jul-12-2015	0	24.6	11,900
Jul-13-2015	0	25.4	12,000
Jul-14-2015	0	25.2	12,200
Jul-15-2015	0	24.9	12,200
Jul-16-2015	0	25.4	12,100
Jul-17-2015	0	26.3	12,100
Jul-18-2015	0	25.9	12,200
Jul-19-2015	0	25.3	12,200
Jul-20-2015	0	27.2	12,300
Jul-21-2015	0	28.4	12,600
Jul-22-2015	0	27.2	11,200
Jul-23-2015	0	26.2	2,400
Jul-24-2015	0	25.5	2,040
Jul-25-2015	0	25.4	2,130
Jul-26-2015	1	25.6	2,370
Jul-27-2015	5	26.0	1,760
Jul-28-2015	1	26.4	1,540
Jul-29-2015	0	26.9	1,510
Jul-30-2015	0	27.5	1,550
Jul-31-2015	1	27.7	1,470
Aug-01-2015	0	27.3	1,410

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Aug-02-2015	0	26.9	1,360
Aug-03-2015	0	26.4	1,330
Aug-04-2015	0	24.9	1,390
Aug-05-2015	0	24.3	1,540
Aug-06-2015	0	24.4	1,750
Aug-07-2015	0	25.0	1,990
Aug-08-2015	0	25.8	1,920
Aug-09-2015	0	25.9	2,150
Aug-10-2015	0	25.4	2,030
Aug-11-2015	0	25.0	2,140
Aug-12-2015	0	24.8	2,320
Aug-13-2015	0	25.1	2,450
Aug-14-2015	0	25.0	1,960
Aug-15-2015	0	24.8	1,500
Aug-16-2015	0	25.4	1,400
Aug-17-2015	0	26.6	1,490
Aug-18-2015	0	26.4	1,520
Aug-19-2015	0	25.6	1,520
Aug-20-2015	0	25.1	1,550
Aug-21-2015	0	24.8	1,600
Aug-22-2015	0	24.6	1,580
Aug-23-2015	0	24.8	1,560
Aug-24-2015	0	24.7	1,560
Aug-25-2015	0	24.7	1,570
Aug-26-2015	0	24.8	1,570
Aug-27-2015	0	24.8	1,600
Aug-28-2015	0	24.5	1,610
Aug-29-2015	0	24.4	1,650
Aug-30-2015	0	22.7	1,690
Aug-31-2015	0	22.5	1,730
Sep-01-2015	0	23.2	1,765
Sep-02-2015	0	22.7	1,809
Sep-03-2015	0	23.0	1,859
Sep-04-2015	0	21.9	1,513
Sep-05-2015	0	20.6	1,359
Sep-06-2015	0	20.6	1,323
Sep-07-2015	0	21.2	1,221
Sep-08-2015	0	21.9	1,088
Sep-09-2015	0	23.1	970
Sep-10-2015	0	24.2	895
Sep-11-2015	0	24.1	884
Sep-12-2015	0	23.0	925
Sep-13-2015	0	23.7	990

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Sep-14-2015	0	22.3	1,129
Sep-15-2015	0	22.4	1,256
Sep-16-2015	0	20.6	1,238
Sep-17-2015	0	20.8	1,201
Sep-18-2015	0	20.9	1,227
Sep-19-2015	0	21.1	1,234
Sep-20-2015	0	21.4	1,273
Sep-21-2015	0	23.0	1,264
Sep-22-2015	0	23.7	1,293
Sep-23-2015	0	21.9	1,328
Sep-24-2015	0	21.5	1,341
Sep-25-2015	0	22.2	1,299
Sep-26-2015	0	22.4	1,262
Sep-27-2015	0	22.3	1,288
Sep-28-2015	0	21.6	1,373
Sep-29-2015	0	20.4	1,344
Sep-30-2015	0	19.5	1,326
Oct-01-2015	1	20.0	1,378
Oct-02-2015	1	20.7	1,338
Oct-03-2015	1	20.5	1,326
Oct-04-2015	1	18.9	1,401
Oct-05-2015	1	19.0	1,427
Oct-06-2015	2	20.0	1,060
Oct-07-2015	3	20.7	1,257
Oct-08-2015	3	21.4	1,516
Oct-09-2015	4	21.8	1,568
Oct-10-2015	4	21.0	1,467
Oct-11-2015	5	21.1	1,520
Oct-12-2015	6	21.4	1,290
Oct-13-2015	5	21.4	1,580
Oct-14-2015	5	21.7	1,641
Oct-15-2015	6	21.9	1,587
Oct-16-2015	7	22.5	1,529
Oct-17-2015	7	22.4	1,514
Oct-18-2015	7	20.6	1,608
Oct-19-2015	8	19.4	1,647
Oct-20-2015	4	18.8	1,688
Oct-21-2015	6	18.0	1,708
Oct-22-2015	9	18.0	1,656
Oct-23-2015	8	18.1	1,686
Oct-24-2015	3	18.1	1,755
Oct-25-2015	1	18.2	1,791
Oct-26-2015	0	17.7	1,787

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Oct-27-2015	0	18.0	1,752
Oct-28-2015	1	18.7	1,729
Oct-29-2015	2	18.0	1,726
Oct-30-2015	3	16.9	1,656
Oct-31-2015	5	17.0	1,640
Nov-01-2015	4	17.7	1,663
Nov-02-2015	5	17.4	1,706
Nov-03-2015	4	15.8	1,579
Nov-04-2015	3	14.3	2,004
Nov-05-2015	37	13.6	4,413
Nov-06-2015	25	13.7	3,596
Nov-07-2015	10	13.3	3,299
Nov-08-2015	5	13.3	3,099
Nov-09-2015	9	13.4	2,576
Nov-10-2015	19	12.7	2,078
Nov-11-2015	22	12.1	2,057
Nov-12-2015	22	12.0	2,027
Nov-13-2015	25	12.0	1,912
Nov-14-2015	23	12.2	1,886
Nov-15-2015	20	12.3	1,895
Nov-16-2015	17	10.9	1,937
Nov-17-2015	14	10.0	1,985
Nov-18-2015	19	10.4	2,342
Nov-19-2015	26	11.1	2,599
Nov-20-2015	28	11.2	2,747
Nov-21-2015	20	12.6	2,630
Nov-22-2015	15	13.2	2,530
Nov-23-2015	14	13.3	2,420
Nov-24-2015	20	12.8	2,140
Nov-25-2015	21	11.6	2,160
Nov-26-2015	50	10.6	3,580
Nov-27-2015	78	10.0	3,950
Nov-28-2015	78	9.4	3,880
Nov-29-2015	76	8.8	4,940
Nov-30-2015	65	8.4	4,460
Dec-01-2015	43	8.8	3,250
Dec-02-2015	34	9.0	2,940
Dec-03-2015	27	9.5	2,940
Dec-04-2015	25	10.5	2,860
Dec-05-2015	23	10.4	2,910
Dec-06-2015	20	11.1	3,070
Dec-07-2015	19	11.8	3,160
Dec-08-2015	19	11.9	3,210

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Dec-09-2015	21	13.3	3,200
Dec-10-2015	46	12.6	3,180
Dec-11-2015	96	12.0	4,160
Dec-12-2015	120	11.8	4,270
Dec-13-2015	110	11.1	2,700
Dec-14-2015	102	9.8	3,760
Dec-15-2015	100	8.8	5,190
Dec-16-2015	107	8.5	5,000
Dec-17-2015	120	8.4	3,880
Dec-18-2015	105	8.4	4,330
Dec-19-2015	98	9.3	4,370
Dec-20-2015	104	9.3	4,680
Dec-21-2015	135	9.3	5,130
Dec-22-2015	197	10.4	3,230
Dec-23-2015	217	10.7	2,860
Dec-24-2015	214	10.0	3,360
Dec-25-2015	210	9.3	3,220
Dec-26-2015	204	8.2	3,090
Dec-27-2015	199	7.6	3,110
Dec-28-2015	183	7.8	3,090
Dec-29-2015	161	7.5	3,420
Dec-30-2015	138	7.5	3,660
Dec-31-2015	117	8.0	3,650

**NOTES:**

USGS data webpage

[http://waterdata.usgs.gov/nwis/dv/?site\\_no=11262900&agency\\_cd=USGS&referred\\_module=sw](http://waterdata.usgs.gov/nwis/dv/?site_no=11262900&agency_cd=USGS&referred_module=sw)



**Table 3b. Monthly averages and totals**

<b>PARAMETER</b>	<b>Total Flow</b>	<b>Average Temperature</b>	<b>Average Specific Conductance</b>
<b>DATA SOURCE</b>	<b>Calculated</b>	<b>Calculated</b>	<b>Calculated</b>
<b>UNITS</b>	<b>acre-feet</b>	<b>°C</b>	<b>µS/cm</b>
Jan-15	3,750	11	3,320
Feb-15	3,010	15	3,531
Mar-15	3,150	18	3,623
Apr-15	1,030	19	3,775
May-15	130	22	5,488
Jun-15	10	26	9,241
Jul-15	20	26	8,860
Aug-15	0	25	1,692
Sep-15	0	22	1,276
Oct-15	240	20	1,556
Nov-15	1,540	12	2,670
Dec-15	6,570	10	3,577

**NOTES:**

Table 3c. Other water quality monitoring in Mud Slough (north) below San Luis Drain discharge(Station D)

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L
Jan-09-2015	11.6	7.7	3,001	11.5	16.6	6.4	3.2	
Jan-13-2015	9.5	7.7	3,325	12.1	22.3	5.6	3.9	16
Jan-23-2015	11.1	7.7	3,825	10.0	18.6	2.4	5.6	
Jan-30-2015	9.9	8.0	6,597	12.3	25.1	10.3	13	
Feb-04-2015	8.4	7.8	3,664	14.0	25.2	4.4	5.1	
Feb-13-2015	7.5	7.7	3,390	15.6	31.0	3.5	3.8	
Feb-19-2015	7.0	7.7	3,178	15.1		2.2	3.2	14
Feb-27-2015	9.8	8.0	4,205	14.2	35.1	3.2	6.3	
Mar-06-2015	9.4	8.1	4,242	15.0	25.1	10.6	6.6	
Mar-13-2015	8.4	8.0	2,922	17.8	22.9	3.0	3.1	
Mar-20-2015				20.5		3.2	3.7	12
Mar-27-2015	9.1	8.1	4,361	20.2	42.2	10.8	6.8	
Apr-01-2015	14.7	8.0	3,730	16.3	58.6	0.7	3.4	20
Apr-10-2015	15.1	8.2	3,975	18.1	48.0	1.2	3.8	
Apr-16-2015	10.2	8.2	4,400	17.8	20.4	3.5	5.4	20
Apr-24-2015	9.2	8.0	3,754	19.5	40.0	0.4	3.4	
May-01-2015	7.9	8.2	2,739	22.7	17.6	0.8	2.6	
May-08-2015	9.8	8.1	4,082	17.8	34.4	0.4	3.7	
May-15-2015								
May-21-2015								
May-27-2015								
Jun-04-2015								
Jun-11-2015	3.7	7.9	8,911	29.2	22.7	0.4	7.6	
Jun-17-2015	8.2	8.1	9,565	25.3	15.6	0.6	7.6	22
Jun-25-2015	10.1	8.2	10,456	27.2		0.6	9.3	
Jun-29-2015	8.8	8.2	10,989	25.8	10.5	0.6	9.6	22
Jul-09-2015	8.5	8.4	12,199	26.6	8.6	0.7	11.0	
Jul-15-2015								
Jul-20-2015								
Jul-27-2015								
Aug-06-2015								
Aug-11-2015								
Aug-17-2015		7.9	1,402	27.0	4.4	0.4	1.3	
Aug-24-2015	5.5	7.9	1,620	20.3	5.4	0.4	1.3	
Sep-01-2015								
Sep-08-2015								
Sep-18-2015	10.1	8.1	1,289	21.3	7.9	0.5	0.7	
Sep-21-2015	8.0	8.0	1,309	23.5	8.5	0.6	0.7	
Sep-28-2015	7.8	8.1	4,128	21.4	11.5	0.6	1.0	7
Oct-05-2015					6.8	0.4	1.2	
Oct-16-2015	6.5	7.7	1,575	22.7	7.7	<0.4	1.2	
Oct-19-2015	5.8	7.6	1,704	17.6	11.9	<0.4	1.4	
Oct-26-2015	12.6	7.6	1,857	19.2	11.0	0.4	1.5	24
Nov-06-2015	15.8	8.0	3,768	11.6	17.0	3.2	5.9	
Nov-09-2015								
Nov-20-2015	11.3	8.1	2,880	12.2	11.2	3.3	4.7	
Nov-23-2015	10.7	7.9	2,470	14.2	12.6	1.5	2.2	18
Nov-30-2015	11.5	8.1	4,468	8.5	7.4	5.9	7.9	
Dec-07-2015	9.9	7.9	3,238	12.9	13.0	2.5	4.2	
Dec-15-2015	10.8	8.1	5,547	9.1	6.6	10.0	11.0	
Dec-21-2015	10.9	7.9	5,428	9.3	8.2	12.5	11.0	
Dec-29-2015	10.8	8.0	3,610	7.5	7.9	6.0	6.0	18

NOTES:

Nutrients					
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N	Total Kjeldahl Nitrogen	Total Phosphorous as P	Ortho-phosphate as P
DATA SOURCE	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
Jan-13-2015	0.96	0.27	2	0.17	0.09
Feb-19-2015	0.35 T	0.23	2	0.40	0.33 T
Apr-01-2015	0.12	0.17	3	0.51	0.41 U
Apr-16-2015	<0.010	0.17	2	0.30	0.024 T
May-21-2015					
May-27-2015					
Jun-17-2015	<0.010	0.06	1	0.54	0.49
Jun-29-2015	<0.010	<0.050	1	0.86	0.44
Sep-28-2015	<0.010	0.10			
Oct-26-2015	<0.010	0.13 T			
Nov-23-2015	<0.010	0.13			
Dec-29-2015	0.44 T	0.14			

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

Table 4. Water quality monitoring in Mud Slough (north) above San Luis Drain discharge (Station C)

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L
Jan-09-2015								
Jan-13-2015	12.1	7.7	2,528	11.9	32.7	< 0.4	2.1	18
Jan-23-2015	13.8	7.7	2,346	10.3	11.3	< 0.4	2.1	
Jan-30-2015	7.5	7.7	2,622	14.1	25.8	< 0.4	2.2	
Feb-04-2015	7.7	7.7	2,706	13.4	25.8	< 0.4	2.2	
Feb-13-2015	8.8	7.7	2,674	15.7	29.3	< 0.4	2.4	
Feb-19-2015	9.3	7.7	2,670	15.1		< 0.4	2.3	13
Feb-27-2015	8.1	7.8	3,097	14.6	53.5	< 0.4	2.4	
Mar-06-2015	8.0	7.9	2,755	14.9	32.8	0.5	2.3	
Mar-13-2015	9.3	8.0	2,513	18.6	23.7	0.7	2.3	
Mar-20-2015	7.7	7.8	2,573	31.3	61.4	< 0.4	2.3	12
Mar-27-2015	8.8	8.1	2,928	22.8	63.4	0.5	2.6	
Apr-01-2015	13.8	8.1	3,206	18.5	62.5	< 0.4	2.9	
Apr-10-2015	14.2	8.4	3,429	18.8	55.8	< 0.4	3.0	
Apr-16-2015								16
Apr-24-2015								
May-01-2015	7.5	8.3	2,550	25.1	15.9	0.8	2.6	
May-08-2015								
May-15-2015								
May-21-2015								
May-27-2015								
Jun-04-2015								
Jun-11-2015								
Jun-17-2015								
Jun-25-2015								
Jun-29-2015								
Jul-09-2015								
Jul-15-2015								
Jul-20-2015								
Jul-27-2015								
Aug-06-2015								
Aug-11-2015								
Aug-17-2015								
Aug-24-2015								
Sep-01-2015								
Sep-08-2015								
Sep-18-2015								
Sep-21-2015								
Sep-28-2015								
Oct-05-2015					20.4	0.6	0.6	
Oct-16-2015	6.9	7.7	1,535	21.2	9.3	<0.4	1.2	
Oct-19-2015	8.2	7.7	1,737	17.0	17.4	<0.4	1.4	
Oct-26-2015	10.8	7.7	1,830	18.6	18.7	0.5	1.5	23 U
Nov-06-2015	13.1	8.0	1,710	11.4	12.7	0.7	1.3	
Nov-09-2015								
Nov-20-2015	9.7	7.7	2,033	12.5	6.8	0.4	1.7	
Nov-23-2015	9.3	7.8	2,108	14.4	5.9	0.4	1.5	20
Nov-30-2015	10.4	8.0	2,264	8.4	4.3	0.4	1.7	
Dec-07-2015	9.6	8.2	2,507	12.5	5.5	0.4	1.9	
Dec-15-2015	9.2	8.2	2,325	9.1	4.3	0.6	1.8	
Dec-21-2015	8.4	7.8	2,499	10.2	6.7	0.4	1.9	
Dec-29-2015	10.3	8.2	2,079	8.2	4.8	1.0	1.7	14

NOTES: No data collected for July, August, and September due to no flow.

Nutrients					
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N	Total Kjeldahl Nitrogen	Total Phosphorous as P	Ortho-phosphate as P
DATA SOURCE	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
Jan-13-2015	0.16	0.27	1.70	0.15	0.16
Feb-19-2015	0.16 T	0.24	1.50	0.51	0.38 T
Apr-01-2015	< 0.010	0.17	3.1 U	0.57	0.43
May-21-2015					
May-27-2015					
Jun-17-2015					
Jun-29-2015					
Oct-26-2015	<0.010	0.17			
Nov-23-2015	0.02	0.10			
Dec-29-2015	0.49T	0.13			

NOTES:

**Table 5. Water quality monitoring in Mud Slough (north) backwater below San Luis Drain discharge (Station I2)**

PARAMETER	Physicals					
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity	Total Selenium
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	µg/L
Jan-09-2015						
Jan-13-2015						
Jan-23-2015						
Jan-30-2015						
Feb-04-2015						
Feb-13-2015						
Feb-19-2015						
Feb-27-2015						
Mar-06-2015						
Mar-13-2015						
Mar-20-2015						
Mar-27-2015						
Apr-01-2015						
Apr-10-2015						
Apr-16-2015						
Apr-24-2015						
May-01-2015						
May-08-2015						
May-15-2015						
May-21-2015						
May-27-2015						
Jun-04-2015						
Jun-11-2015						
Jun-17-2015						
Jun-25-2015						
Jun-29-2015						
Jul-09-2015						
Jul-15-2015						
Jul-20-2015						
Jul-27-2015						
Aug-06-2015						
Aug-11-2015						
Aug-17-2015						
Aug-24-2015						
Sep-01-2015						
Sep-08-2015						
Sep-18-2015						
Sep-21-2015						
Sep-28-2015						
Oct-05-2015					55.5	0.80
Oct-16-2015	7.5	7.7	1,689	21.4	17.4	0.44
Oct-19-2015	9.0	7.9	1,651	19.5	16.9	0.44
Oct-26-2015	10.5	7.6	1,911	18.6	9.0	0.44
Nov-06-2015	15.8	8.0	3,819	11.9	22.0	3.43
Nov-09-2015						
Nov-20-2015	9.5	8.4	3,897	12.9	13.0	3.76
Nov-23-2015						1.69
Nov-30-2015	7.3	8.0	4,554	8.4	16.9	5.86
Dec-07-2015	9.5	7.9	3,184	12.5	10.9	2.31
Dec-15-2015	7.8	8.3	3,688	8.7	5.4	4.08
Dec-21-2015	7.2	7.8	5,223	9.6	5.9	10.2 U
Dec-29-2015	10.2	8.3	3,542	8.1	3.2	5.59

**NOTES:** Water is only collected when the backwater location is flooded during high flow.

**Table 6a. Water monitoring in Salt Slough at Highway 165 (Station F)**  
**USGS Station Code: 11261100**

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Jan-01-2015	61	6.5	2,020
Jan-02-2015	58	7.0	2,080
Jan-03-2015	51	7.3	2,140
Jan-04-2015	48	8.1	2,140
Jan-05-2015	49	8.7	2,080
Jan-06-2015	55	9.6	2,070
Jan-07-2015	57	9.8	1,990
Jan-08-2015	61	10.3	1,910
Jan-09-2015	53	10.9	1,920
Jan-10-2015	49	12.2	1,940
Jan-11-2015	53	12.9	1,980
Jan-12-2015	55	12.6	1,950
Jan-13-2015	57	12.4	1,960
Jan-14-2015	57	11.5	1,950
Jan-15-2015	58	11.2	1,920
Jan-16-2015	58	11.1	1,880
Jan-17-2015	54	11.4	1,960
Jan-18-2015	48	11.9	2,090
Jan-19-2015	45	12.4	2,100
Jan-20-2015	47	12.4	2,100
Jan-21-2015	47	12.0	2,110
Jan-22-2015	43	11.6	2,140
Jan-23-2015	42	10.5	2,180
Jan-24-2015	40	10.9	2,210
Jan-25-2015	43	10.6	2,200
Jan-26-2015	43	10.4	2,170
Jan-27-2015	45	12.2	2,190
Jan-28-2015	45	12.3	2,210
Jan-29-2015	45	13.2	2,200
Jan-30-2015	45	13.2	2,190
Jan-31-2015	44	13.2	2,190
Feb-01-2015	45	13.0	2,190
Feb-02-2015	48	13.1	2,120
Feb-03-2015	62	13.9	2,010
Feb-04-2015	75		
Feb-05-2015	69	13.8	1,830
Feb-06-2015	63	13.7	1,970
Feb-07-2015	65	15.1	1,920
Feb-08-2015	76	16.4	1,900
Feb-09-2015	84	16.4	1,830
Feb-10-2015	88		

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Feb-11-2015	78		
Feb-12-2015	68		
Feb-13-2015	63	15.8	2,110
Feb-14-2015	69	16.3	1,980
Feb-15-2015	70	16.5	1,890
Feb-16-2015	70	16.6	1,890
Feb-17-2015	83	16.5	1,730
Feb-18-2015	79	16.2	1,680
Feb-19-2015	66	15.6	1,750
Feb-20-2015	65	15.1	1,780
Feb-21-2015	72	14.4	1,750
Feb-22-2015	78	13.8	1,670
Feb-23-2015	104	13.1	1,540
Feb-24-2015	128	12.8	1,550
Feb-25-2015	132	12.9	1,660
Feb-26-2015	115	13.4	1,820
Feb-27-2015	102	14.5	1,860
Feb-28-2015	97	13.9	1,930
Mar-01-2015	95	13.5	1,810
Mar-02-2015	84	14.2	1,870
Mar-03-2015	89	13.9	1,860
Mar-04-2015	87	14.7	1,930
Mar-05-2015	81	15.5	1,930
Mar-06-2015	75	15.8	1,990
Mar-07-2015	79	16.1	1,920
Mar-08-2015	78	16.5	1,940
Mar-09-2015	77	17.0	2,000
Mar-10-2015	81	17.7	2,010
Mar-11-2015	105	17.9	2,000
Mar-12-2015	120	17.9	1,980
Mar-13-2015	115	18.4	2,010
Mar-14-2015	109	19.6	1,940
Mar-15-2015	103	20.3	2,030
Mar-16-2015	93	19.1	2,120
Mar-17-2015	81	18.8	2,200
Mar-18-2015	74	18.6	2,240
Mar-19-2015	75	18.6	2,130
Mar-20-2015	68	18.8	2,080
Mar-21-2015	66	18.4	2,080
Mar-22-2015	68	19.3	2,060
Mar-23-2015	66	18.7	2,090
Mar-24-2015	58	18.1	2,130
Mar-25-2015	58	17.8	2,100

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Mar-26-2015	59	19.3	2,170
Mar-27-2015	63	20.9	2,160
Mar-28-2015	56	20.6	2,160
Mar-29-2015	53	19.8	2,150
Mar-30-2015	49	20.3	2,070
Mar-31-2015	46	19.8	2,070
Apr-01-2015	43	17.4	2,180
Apr-02-2015	40	16.3	2,210
Apr-03-2015	45	16.1	2,140
Apr-04-2015	44	17.6	2,120
Apr-05-2015	44	16.9	2,080
Apr-06-2015	48	15.8	2,040
Apr-07-2015	55	15.7	1,970
Apr-08-2015	68	15.2	1,830
Apr-09-2015	75	16.6	1,800
Apr-10-2015	62	17.9	1,930
Apr-11-2015	50	19.0	2,070
Apr-12-2015	48	19.0	2,070
Apr-13-2015	53	20.0	1,990
Apr-14-2015	52	18.5	1,940
Apr-15-2015	48	16.6	1,980
Apr-16-2015	44	17.4	2,100
Apr-17-2015	46	19.5	2,170
Apr-18-2015	50	20.7	2,060
Apr-19-2015	46	21.8	2,100
Apr-20-2015	47	22.5	2,020
Apr-21-2015	61	21.3	2,000
Apr-22-2015	59	20.1	2,080
Apr-23-2015	54	20.7	2,150
Apr-24-2015	51	19.9	2,180
Apr-25-2015	52	19.5	2,170
Apr-26-2015	50	18.9	2,060
Apr-27-2015	53	19.5	1,880
Apr-28-2015	46	22.4	1,950
Apr-29-2015	43	23.2	2,040
Apr-30-2015	34	22.8	2,040
May-01-2015	32	23.5	2,010
May-02-2015	28	23.7	2,070
May-03-2015	25	22.6	2,110
May-04-2015	32	21.5	2,020
May-05-2015	36	20.8	1,640
May-06-2015	26	19.8	1,750
May-07-2015	24	18.0	1,940

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
May-08-2015	28	18.0	1,940
May-09-2015	31	20.5	1,910
May-10-2015	41	21.9	1,670
May-11-2015	45	22.0	1,540
May-12-2015	41	20.5	1,560
May-13-2015	30	20.5	1,660
May-14-2015	28	20.0	1,840
May-15-2015	35	19.8	1,810
May-16-2015	27	19.9	1,900
May-17-2015	25	20.4	2,080
May-18-2015	33	20.1	1,920
May-19-2015	32	21.0	1,790
May-20-2015	27	21.5	1,890
May-21-2015	29	20.6	1,880
May-22-2015	30	20.2	1,760
May-23-2015	32	21.0	1,790
May-24-2015	34	21.1	1,580
May-25-2015	33	22.6	1,560
May-26-2015	31	22.8	1,620
May-27-2015	19	22.9	1,800
May-28-2015	26	23.7	1,870
May-29-2015	25	23.9	1,860
May-30-2015	28	24.6	1,860
May-31-2015	29	24.8	1,760
Jun-01-2015	24	23.6	1,730
Jun-02-2015	23	23.9	1,810
Jun-03-2015	22	23.5	1,770
Jun-04-2015	23	22.0	1,820
Jun-05-2015	31	23.7	1,760
Jun-06-2015	33	24.8	1,930
Jun-07-2015	34	26.0	1,960
Jun-08-2015	43	27.7	1,780
Jun-09-2015	53	26.2	1,580
Jun-10-2015	44	24.6	1,580
Jun-11-2015	30	25.1	1,590
Jun-12-2015	24	27.9	1,520
Jun-13-2015	17	28.5	1,600
Jun-14-2015	15	26.8	1,730
Jun-15-2015	16	26.5	1,760
Jun-16-2015	23	25.7	1,690
Jun-17-2015	17	26.6	1,580
Jun-18-2015	10	26.8	1,700
Jun-19-2015	9	25.2	1,770



<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Jun-20-2015	11	25.8	1,750
Jun-21-2015	18	26.0	1,610
Jun-22-2015	22	24.7	1,570
Jun-23-2015	19	25.2	1,650
Jun-24-2015	13	25.8	1,560
Jun-25-2015	15	27.8	1,530
Jun-26-2015	13	28.6	1,460
Jun-27-2015	14	28.0	1,440
Jun-28-2015	14	27.4	1,430
Jun-29-2015	17	27.5	1,430
Jun-30-2015	22	27.4	1,450
Jul-01-2015	24	28.4	1,470
Jul-02-2015	33	27.0	1,510
Jul-03-2015	32	27.1	1,560
Jul-04-2015	23	28.3	1,530
Jul-05-2015	21	28.0	1,310
Jul-06-2015	21	27.1	1,250
Jul-07-2015	18	26.2	1,260
Jul-08-2015	20	25.8	1,290
Jul-09-2015	10	24.9	1,320
Jul-10-2015	13	24.6	1,390
Jul-11-2015	20	24.7	1,490
Jul-12-2015	19	25.5	1,560
Jul-13-2015	22	25.3	1,450
Jul-14-2015	24	26.2	1,370
Jul-15-2015	20	26.0	1,350
Jul-16-2015	17	26.3	1,300
Jul-17-2015	12	27.4	1,230
Jul-18-2015	7	27.2	1,310
Jul-19-2015	10	26.6	1,360
Jul-20-2015	14	27.8	1,350
Jul-21-2015	15	29.3	1,230
Jul-22-2015	14	27.3	1,260
Jul-23-2015	9	25.6	1,290
Jul-24-2015	7	25.7	1,330
Jul-25-2015	10	25.8	1,370
Jul-26-2015	16	25.5	1,450
Jul-27-2015	18	25.5	1,390
Jul-28-2015	18	25.4	1,420
Jul-29-2015	20	26.6	1,340
Jul-30-2015	25	27.5	1,300
Jul-31-2015	25	27.6	1,270
Aug-01-2015	17	27.0	1,250

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Aug-02-2015	10	26.9	1,290
Aug-03-2015	14	26.3	1,320
Aug-04-2015	23	24.6	1,360
Aug-05-2015	29	23.8	1,360
Aug-06-2015	27	24.3	1,310
Aug-07-2015	29	24.3	1,250
Aug-08-2015	31	25.5	1,200
Aug-09-2015	31	25.8	1,180
Aug-10-2015	29	25.6	1,100
Aug-11-2015	27	25.2	1,190
Aug-12-2015	31	25.2	1,260
Aug-13-2015	33	25.5	1,240
Aug-14-2015	25	25.1	1,100
Aug-15-2015	15	25.0	1,090
Aug-16-2015	9	26.1	1,160
Aug-17-2015	10	27.3	1,210
Aug-18-2015	18	26.9	1,250
Aug-19-2015	20	25.8	1,300
Aug-20-2015	17	25.6	1,350
Aug-21-2015	12	25.4	1,300
Aug-22-2015	10	25.4	1,250
Aug-23-2015	14	25.6	1,220
Aug-24-2015	9	25.5	1,320
Aug-25-2015	10	26.1	1,360
Aug-26-2015	4	26.4	1,340
Aug-27-2015	4	26.4	1,390
Aug-28-2015	4	26.8	1,470
Aug-29-2015	6	26.6	1,440
Aug-30-2015	5	24.7	1,380
Aug-31-2015	6	23.9	1,380
Sep-01-2015	11	24.6	1,354
Sep-02-2015	14	23.8	1,247
Sep-03-2015	10	23.7	1,193
Sep-04-2015	3	22.4	1,175
Sep-05-2015	1	20.9	1,203
Sep-06-2015	1	21.1	1,242
Sep-07-2015	2	22.2	1,320
Sep-08-2015	7	22.8	1,395
Sep-09-2015	16	23.6	1,299
Sep-10-2015	20	24.4	1,240
Sep-11-2015	20	24.3	1,188
Sep-12-2015	20	23.3	1,188
Sep-13-2015	21	24.0	1,204

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Sep-14-2015	21	22.9	1,261
Sep-15-2015	22	22.5	1,295
Sep-16-2015	24	21.0	1,323
Sep-17-2015	22	21.0	1,395
Sep-18-2015	19	21.0	1,418
Sep-19-2015	16	21.6	1,467
Sep-20-2015	15	22.4	1,559
Sep-21-2015	15	23.4	1,626
Sep-22-2015	15	23.9	1,553
Sep-23-2015	15	22.1	1,588
Sep-24-2015	8	22.0	1,682
Sep-25-2015	4	22.9	1,665
Sep-26-2015	2	22.7	1,611
Sep-27-2015	4	22.8	1,607
Sep-28-2015	10	22.2	1,581
Sep-29-2015	13	20.5	1,497
Sep-30-2015	14	19.5	1,519
Oct-01-2015	15	20.0	1,620
Oct-02-2015	17	20.7	1,671
Oct-03-2015	18	20.7	1,647
Oct-04-2015	21	18.6	1,574
Oct-05-2015	23	19.5	1,471
Oct-06-2015	23	20.3	1,444
Oct-07-2015	23	21.1	1,508
Oct-08-2015	21	21.8	1,557
Oct-09-2015	18	22.1	1,652
Oct-10-2015	15	21.5	1,705
Oct-11-2015	14	21.6	1,766
Oct-12-2015	12	21.7	1,788
Oct-13-2015	11	22.2	1,770
Oct-14-2015	10	22.1	1,800
Oct-15-2015	10	22.1	1,784
Oct-16-2015	11	23.1	1,721
Oct-17-2015	11	22.2	1,666
Oct-18-2015	9	20.3	1,611
Oct-19-2015	8	19.5	1,607
Oct-20-2015	7	18.9	1,706
Oct-21-2015	7	18.4	1,783
Oct-22-2015	9	18.2	1,767
Oct-23-2015	9	18.3	1,740
Oct-24-2015	8	18.1	1,849
Oct-25-2015	8	18.2	1,862
Oct-26-2015	8	17.8	1,871

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Oct-27-2015	9	17.8	1,901
Oct-28-2015	12	18.6	1,843
Oct-29-2015	13	17.3	1,796
Oct-30-2015	12	16.0	1,826
Oct-31-2015	13	16.8	1,807
Nov-01-2015	14	17.5	1,760
Nov-02-2015	18	16.5	1,705
Nov-03-2015	20	15.2	1,748
Nov-04-2015	23	13.5	1,787
Nov-05-2015	37	12.7	1,657
Nov-06-2015	52	12.6	1,421
Nov-07-2015	55	12.4	1,384
Nov-08-2015	48	12.3	1,489
Nov-09-2015	43	12.3	1,626
Nov-10-2015	39	11.9	1,728
Nov-11-2015	37	11.6	1,727
Nov-12-2015	37	11.5	1,663
Nov-13-2015	37	11.4	1,582
Nov-14-2015	37	11.5	1,542
Nov-15-2015	38	11.6	1,582
Nov-16-2015	36	9.9	1,629
Nov-17-2015	33	9.4	1,682
Nov-18-2015	29	10.1	1,754
Nov-19-2015	26	10.7	1,775
Nov-20-2015	26	10.5	1,754
Nov-21-2015	37	12.0	1,660
Nov-22-2015	37	12.2	1,650
Nov-23-2015	36	12.5	1,700
Nov-24-2015	43	11.9	1,760
Nov-25-2015	52	10.8	1,690
Nov-26-2015	55	9.7	1,570
Nov-27-2015	53	8.9	1,580
Nov-28-2015	49	8.4	1,670
Nov-29-2015	46	7.8	1,820
Nov-30-2015	46	7.5	1,800
Dec-01-2015	45	7.7	1,810
Dec-02-2015	46	8.2	1,830
Dec-03-2015	47	8.4	1,830
Dec-04-2015	45	9.5	1,860
Dec-05-2015	38	9.5	1,890
Dec-06-2015	25	10.2	1,920
Dec-07-2015	27	11.0	1,780
Dec-08-2015	32	11.5	1,690

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-09-2015	36	12.7	1,700
Dec-10-2015	38	11.9	1,730
Dec-11-2015	37	11.6	1,660
Dec-12-2015	37	11.0	1,630
Dec-13-2015	38	10.6	1,550
Dec-14-2015	40	8.9	1,590
Dec-15-2015	39	7.8	1,680
Dec-16-2015	36	7.4	1,740
Dec-17-2015	32	7.5	1,720
Dec-18-2015	33	7.8	1,720
Dec-19-2015	39	9.0	1,740
Dec-20-2015	48	8.6	1,680
Dec-21-2015	53	9.2	1,720
Dec-22-2015	60	11.0	1,640
Dec-23-2015	61	10.6	1,620
Dec-24-2015	68	9.2	1,610
Dec-25-2015	73	8.4	1,610
Dec-26-2015	72	7.4	1,640
Dec-27-2015	68	6.7	1,710
Dec-28-2015	62	7.2	1,800
Dec-29-2015	57	6.8	1,780
Dec-30-2015	60	6.8	1,740
Dec-31-2015	59	7.6	1,720

**NOTES:**

USGS data webpage

[http://waterdata.usgs.gov/nwis/dv/?site\\_no=11261100&agency\\_cd=USGS&referred\\_module=sw](http://waterdata.usgs.gov/nwis/dv/?site_no=11261100&agency_cd=USGS&referred_module=sw)

**Table 6b. Monthly averages and totals**

<b>PARAMETER</b>	<b>Total Flow</b>	<b>Average Temperature</b>	<b>Average Specific Conductance</b>
<b>DATA SOURCE</b>	<b>Calculated</b>	<b>Calculated</b>	<b>Calculated</b>
<b>UNITS</b>	<b>acre-feet</b>	<b>°C</b>	<b>µS/cm</b>
Jan-15	3,090	11	2,070
Feb-15	4,390	15	1,848
Mar-15	4,780	18	2,040
Apr-15	3,000	19	2,045
May-15	1,870	21	1,819
Jun-15	1,330	26	1,651
Jul-15	1,110	27	1,365
Aug-15	1,050	26	1,278
Sep-15	760	23	1,396
Oct-15	810	20	1,713
Nov-15	2,260	12	1,663
Dec-15	2,880	9	1,721

**NOTES:**

Table 6c. Other water quality monitoring in Salt Slough at Highway 165 (Station F)

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L
Jan-09-2015	11.2	7.7	1,967	10.9	31.0	< 0.4	1.0	
Jan-13-2015	12.2	7.8	1,995	10.8	32.8	< 0.4	1.1	11
Jan-23-2015	11.7	7.8	2,253	9.7	35.8	< 0.4	1.2	
Jan-30-2015	10.3	7.8	2,197	14.3	24.7	< 0.4	1.3	
Feb-04-2015	9.9	7.7	1,742	13.2	51.5	< 0.4	0.9	
Feb-13-2015	9.4	7.6	2,175	15.5	38.6	< 0.4	1.3	
Feb-19-2015								
Feb-27-2015	8.9	7.6	1,891	13.4	40.6	0.42	1.0	
Mar-06-2015	8.7	7.7	2,041	15.5	31.3	< 0.4	1.0	
Mar-13-2015	9.6	7.7	2,060	18.5	33.2	< 0.4	1.2	
Mar-20-2015	8.3	7.7	2,173	20.0	46.3	< 0.4	1.1	11
Mar-27-2015	9.5	7.9	2,174	20.5	44.8	< 0.4	1.1	
Apr-01-2015	12.7	8.0	2,227	17.0	30.0	< 0.4	1.1	13
Apr-10-2015	16.5	7.9	2,020	18.8	35.1	< 0.4	0.9	
Apr-16-2015	9.7	8.1	2,215	18.7	34.5	< 0.4	1.2	13
Apr-24-2015	9.9	8.2	2,268	19.6	35.1	< 0.4	1.2	
May-01-2015	8.1	8.1	2,185	25.8	20.8	< 0.4	0.9	
May-08-2015	10.3	8.1	1,997	18.4	35.8	< 0.4	0.9	
May-15-2015	9.6	8.1	1,797	20.3	27.6	< 0.4	0.7	
May-21-2015	11.7	8.2	1,969	20.4	24.6	< 0.4	0.8	12
May-27-2015	12.3	7.9	1,967	23.7	29.7	0.55	0.7	11
Jun-04-2015		7.9	1,816	25.9	35.7	< 0.4	0.7	
Jun-11-2015	5.5	8.1	1,551	29.3	32.4	< 0.4	0.6	
Jun-17-2015	9.9	8.4	1,688	27.8	17.6	< 0.4	0.7	10
Jun-25-2015	9.7	8.4	1,785	29.7		< 0.4	0.7	
Jun-29-2015	10.1	8.3	1,678	28.0	27.9	< 0.4	0.6	10
Jul-09-2015	7.5	8.7	1,477	27.8	12.7	< 0.4	0.5	
Jul-15-2015	10.7	8.2	1,504	27.9	31.9	< 0.4	0.5	8
Jul-20-2015	10.2	8.5	1,533	30.9	89.0	< 0.4	0.6	
Jul-27-2015								
Aug-06-2015	11.9	7.0	1,416	24.8	26.2	< 0.4	0.5	
Aug-11-2015		8.0	1,449	28.4	24.8	< 0.4	0.6	
Aug-17-2015		8.1	1,446	25.6	17.7	< 0.4	0.5	
Aug-24-2015	8.8	7.4	1,359	20.3	13.1	< 0.4	0.5	
Sep-01-2015	11.3	7.0	1,401	20.1		< 0.4	0.6	
Sep-08-2015	11.8	8.1	1,478	19.2		< 0.4	0.6	
Sep-18-2015	9.6	8.0	1,505	21.9	29.6	< 0.4	0.8	
Sep-21-2015	8.8	7.9	1,770	24.2	31.3	< 0.4	0.9	
Sep-28-2015	8.9	7.9	1,657	22.4	25.5	< 0.4	0.9	7
Oct-05-2015					28.1	< 0.4	0.7	
Oct-16-2015	8.8	7.9	1,801	22.2	19.5	< 0.4	1.0	
Oct-19-2015	10.7	8.0	1,705	18.3	11.4	< 0.4	0.9	
Oct-26-2015	10.7	8.3	1,946	19.5	14.0	< 0.4	1.1	9
Nov-06-2015	15.0	8.4	1,440	13.5	43.8	< 0.4	0.6	
Nov-09-2015								
Nov-20-2015	9.6	7.5	1,791	12.0	8.7	< 0.4	0.9	
Nov-23-2015	11.6	8.3	1,775	14.9	8.5	< 0.4	0.8	8
Nov-30-2015	12.4	8.4	1,837	8.6	8.7	17.00	14.0	
Dec-07-2015	10.7	7.4	1,824	12.6	8.7	< 0.4	1.0	
Dec-15-2015	12.0	8.5	1,786	10.1	9.6	< 0.4	0.9	
Dec-21-2015	11.2	8.1	1,868	9.8	17.5	< 0.4	1.0	
Dec-29-2015	13.0	8.6	1,877	8.2	10.0	< 0.4	1.0	9

NOTES:

Nutrients					
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N	Total Kjeldahl Nitrogen	Total Phosphorous as P	Ortho-phosphate as P
DATA SOURCE	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
Jan-13-2015	0.50	0.19	1	0.08	0.05
Feb-19-2015					
Apr-01-2015	0.34	0.11	1	0.13	0.06
Apr-16-2015	0.44	0.10	1	0.14	0.070T
May-21-2015	0.36	<0.050 L	0.89 L	0.11	0.040 L
May-27-2015	<0.010	<0.050	1	0.18	0.055 H
Jun-17-2015	<0.010	<0.050	1	0.17	0.06
Jun-29-2015	<0.010	<0.050	1	0.10	0.06
Jul-15-2015	<0.010	<0.050	1	0.10	0.06
Aug-11-2015	<0.010	<0.050	0	0.08	0.03
Sep-28-2015	<0.010	<0.050			
Oct-26-2015	<0.010	0.05			
Nov-23-2015	<0.010	0.07			
Dec-29-2015	0.12	0.11			

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

**Table 7a. Water quality monitoring in Grassland Wetlands Water Supply Channels  
Camp 13 Ditch headworks (Station J)**

PARAMETER	Flow	Specific Conductance	Total Selenium
DATA SOURCE	GWD	SLDMWA	SLDMWA
UNITS	cfs	µS/cm	µg/L
Nov-18-2015	50	842	<0.8
Nov-25-2015	50	848	<0.4
Dec-02-2015	50	852	0.90
Dec-09-2015	55	947	0.91
Dec-16-2015	35	924	1.71

**NOTES:**

Samples only collected when more than 20 cfs is passing site.

Water passing this site at less than 20 cfs does not reach Grassland Wetlands.

**Table 7b. Water quality monitoring in Grassland Wetlands Water Supply Channels  
Agatha Canal headworks (Station K2)**

PARAMETER	Flow	Specific Conductance	Total Selenium
DATA SOURCE	GWD	SLDMWA	SLDMWA
UNITS	cfs	µS/cm	µg/L
Nov-18-2015	173	803	<0.8
Nov-25-2015	143	762	0.77
Dec-02-2015	134	886	<0.8
Dec-09-2015	134	834	<0.8
Dec-16-2015	70	910	0.99

**NOTES:**

Samples only collected when more than 20 cfs is passing site.

Water passing this site at less than 20 cfs does not reach Grassland Wetlands.



**Table 8a. Water monitoring in the San Joaquin River above Merced River confluence (Station H2)  
USGS Station Code: 11273400**

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jan-01-2015	241	6.2	
Jan-02-2015	227	6.3	
Jan-03-2015	217	6.6	
Jan-04-2015	216	6.9	
Jan-05-2015	217	7.7	
Jan-06-2015	215	8.4	
Jan-07-2015	214	8.9	
Jan-08-2015	208	9.7	
Jan-09-2015	192	10.3	
Jan-10-2015	181	11.5	
Jan-11-2015	170	12.1	
Jan-12-2015	167	12.1	
Jan-13-2015	168	11.9	
Jan-14-2015	181	11.2	
Jan-15-2015	186	10.8	2,650
Jan-16-2015	186	10.7	2,640
Jan-17-2015	183	11.2	2,590
Jan-18-2015	180	11.5	2,690
Jan-19-2015	173	11.9	2,780
Jan-20-2015	169	12.0	2,830
Jan-21-2015	168	11.9	2,840
Jan-22-2015	169	11.7	2,900
Jan-23-2015	169	10.6	2,950
Jan-24-2015	171	10.4	3,040
Jan-25-2015	171	10.2	3,120
Jan-26-2015	177	10.0	3,110
Jan-27-2015	180	11.3	3,130
Jan-28-2015	183	11.6	2,970
Jan-29-2015	184	12.0	3,020
Jan-30-2015	186	12.5	3,340
Jan-31-2015	186	12.7	4,040
Feb-01-2015	178	12.6	3,760
Feb-02-2015	172	12.7	3,240
Feb-03-2015	170	13.2	3,100
Feb-04-2015	173	13.9	3,010
Feb-05-2015	180	14.0	2,770
Feb-06-2015	176	13.9	2,760
Feb-07-2015	177	15.1	2,910
Feb-08-2015	192	15.9	3,230
Feb-09-2015	205	16.2	2,860
Feb-10-2015	211	15.7	2,980
Feb-11-2015	208	15.1	2,890
Feb-12-2015	194	15.2	2,720
Feb-13-2015	181	15.5	2,740
Feb-14-2015	174	16.2	2,770
Feb-15-2015	172	16.3	2,750

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Feb-16-2015	170	16.4	2,700
Feb-17-2015	167	16.2	2,710
Feb-18-2015	169	16.2	2,620
Feb-19-2015	165	15.5	2,550
Feb-20-2015	163	15.0	2,730
Feb-21-2015	164	14.7	2,720
Feb-22-2015	167	14.0	2,670
Feb-23-2015	169	12.9	2,610
Feb-24-2015	170	13.0	2,420
Feb-25-2015	186	13.3	2,280
Feb-26-2015	206	13.9	2,410
Feb-27-2015	209	14.3	2,520
Feb-28-2015	199	14.1	2,680
Mar-01-2015	187	14.1	3,080
Mar-02-2015	179	14.5	2,880
Mar-03-2015	167	14.6	2,770
Mar-04-2015	162	14.9	2,620
Mar-05-2015	161		
Mar-06-2015	160		
Mar-07-2015	162	16.2	3,120
Mar-08-2015	164	16.5	3,180
Mar-09-2015	162	17.2	3,160
Mar-10-2015	153	17.8	2,980
Mar-11-2015	145	17.9	2,980
Mar-12-2015	148	18.0	2,770
Mar-13-2015	156	18.6	2,670
Mar-14-2015	167	19.9	2,540
Mar-15-2015	169	20.6	2,530
Mar-16-2015	170	19.4	
Mar-17-2015	177	19.4	
Mar-18-2015	179	19.0	2,570
Mar-19-2015	175	18.9	2,650
Mar-20-2015	163	19.0	2,790
Mar-21-2015	155	18.7	2,780
Mar-22-2015	149	19.3	2,790
Mar-23-2015	149	19.3	3,030
Mar-24-2015	148	18.7	3,200
Mar-25-2015	146	18.5	3,290
Mar-26-2015	152	19.4	3,240
Mar-27-2015	155	20.9	3,180
Mar-28-2015	159	20.9	2,990
Mar-29-2015	149	20.3	2,960
Mar-30-2015	139	20.5	3,070
Mar-31-2015	128	20.0	3,180
Apr-01-2015	125	18.1	3,110
Apr-02-2015	126	16.9	3,080
Apr-03-2015	131	16.6	2,940
Apr-04-2015	128	17.7	2,970

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Apr-05-2015	122	17.4	2,960
Apr-06-2015	121	16.4	2,930
Apr-07-2015	114	15.9	3,050
Apr-08-2015	119	16.0	2,980
Apr-09-2015	129	16.7	2,770
Apr-10-2015	137	18.1	2,780
Apr-11-2015	132	19.1	2,800
Apr-12-2015	126	19.2	3,180
Apr-13-2015	119	19.9	3,330
Apr-14-2015	114	19.0	3,240
Apr-15-2015	109	17.3	3,110
Apr-16-2015	102	17.8	3,140
Apr-17-2015	94	19.7	3,210
Apr-18-2015	91	21.1	3,290
Apr-19-2015	92	22.1	2,970
Apr-20-2015	91	22.6	3,040
Apr-21-2015	86	22.0	3,200
Apr-22-2015	88	21.3	2,980
Apr-23-2015	89	21.7	2,840
Apr-24-2015	89	21.3	2,940
Apr-25-2015	85	20.5	2,860
Apr-26-2015	96	19.8	2,730
Apr-27-2015	105	20.7	2,560
Apr-28-2015	95	22.9	2,630
Apr-29-2015	89	23.4	2,540
Apr-30-2015	87	23.1	2,560
May-01-2015	78	23.6	2,680
May-02-2015	80	24.4	3,030
May-03-2015	86	24.2	2,720
May-04-2015	80	23.3	2,750
May-05-2015	65	22.7	2,940
May-06-2015	60	22.0	2,820
May-07-2015	58	19.6	2,910
May-08-2015	62	19.0	3,030
May-09-2015	59	21.1	2,960
May-10-2015	64	22.7	2,840
May-11-2015	70	22.9	2,360
May-12-2015	75	21.8	2,110
May-13-2015	74	21.2	2,190
May-14-2015	67	20.1	2,340
May-15-2015	61	21.0	2,390
May-16-2015	58	21.1	2,280
May-17-2015	55	21.1	2,300
May-18-2015	50	21.2	2,740
May-19-2015	52	21.8	2,630
May-20-2015	52	22.7	2,270
May-21-2015	48	21.6	2,370
May-22-2015	46	21.2	2,520

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
May-23-2015	44	22.6	2,540
May-24-2015	42	23.4	2,560
May-25-2015	43	24.6	2,420
May-26-2015	39	24.4	2,550
May-27-2015	37	24.1	3,030
May-28-2015	33	24.3	3,270
May-29-2015	34	24.8	3,580
May-30-2015	35	24.9	3,310
May-31-2015	36	25.0	3,550
Jun-01-2015	37	24.1	3,140
Jun-02-2015	34	24.5	3,080
Jun-03-2015	26	24.8	3,550
Jun-04-2015	23	24.4	3,600
Jun-05-2015	23	25.3	3,410
Jun-06-2015	25	26.6	3,090
Jun-07-2015	26	27.2	2,470
Jun-08-2015	29	29.1	2,500
Jun-09-2015	30	27.5	2,480
Jun-10-2015	33	25.2	1,980
Jun-11-2015	33	26.4	1,900
Jun-12-2015	29	28.6	2,310
Jun-13-2015	27	29.4	2,550
Jun-14-2015	25	28.4	2,840
Jun-15-2015	23	26.9	3,500
Jun-16-2015	19	26.0	3,640
Jun-17-2015	21	26.9	3,900
Jun-18-2015	19	26.9	3,050
Jun-19-2015	16	25.5	3,570
Jun-20-2015	15	26.1	3,980
Jun-21-2015	16	25.9	4,390
Jun-22-2015	21	24.7	4,320
Jun-23-2015	24	25.0	2,920
Jun-24-2015	23	26.2	2,660
Jun-25-2015	18	28.0	3,180
Jun-26-2015	15	29.0	3,400
Jun-27-2015	14	28.4	3,660
Jun-28-2015	14	27.6	3,650
Jun-29-2015	15	27.3	3,510
Jun-30-2015	15	27.5	3,450
Jul-01-2015	18	28.2	3,100
Jul-02-2015	22	26.4	2,350
Jul-03-2015	25	27.9	2,180
Jul-04-2015	27	28.8	1,960
Jul-05-2015	26	28.6	1,970
Jul-06-2015	23	27.2	2,180
Jul-07-2015	24	26.3	2,190
Jul-08-2015	25	26.5	2,070
Jul-09-2015	20	26.1	2,180

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Jul-10-2015	18	25.1	2,090
Jul-11-2015	17	24.7	2,160
Jul-12-2015	25	25.6	1,930
Jul-13-2015	28	25.8	1,570
Jul-14-2015	23	26.4	1,660
Jul-15-2015	24	26.4	1,660
Jul-16-2015	22	27.5	1,650
Jul-17-2015	20	28.0	1,700
Jul-18-2015	18	27.1	1,730
Jul-19-2015	18	26.8	1,880
Jul-20-2015	19	27.8	1,980
Jul-21-2015	19	29.2	1,940
Jul-22-2015	18	27.6	1,730
Jul-23-2015	19	25.9	1,600
Jul-24-2015	21	25.3	1,440
Jul-25-2015	16	25.7	1,780
Jul-26-2015	15	25.3	1,820
Jul-27-2015	15	25.7	1,850
Jul-28-2015	16	25.6	1,720
Jul-29-2015	16	27.2	1,670
Jul-30-2015	18	28.1	1,660
Jul-31-2015	19	27.7	1,660
Aug-01-2015	20	27.0	1,540
Aug-02-2015	20	26.7	1,470
Aug-03-2015	18	26.0	1,460
Aug-04-2015	15	24.7	1,570
Aug-05-2015	14	24.2	1,660
Aug-06-2015	15	24.9	1,600
Aug-07-2015	15	25.0	1,620
Aug-08-2015	16	26.4	1,670
Aug-09-2015	20	26.0	1,570
Aug-10-2015	23	26.0	1,480
Aug-11-2015	22	25.2	1,520
Aug-12-2015	20	25.1	1,470
Aug-13-2015	21	25.8	1,330
Aug-14-2015	21	25.4	1,340
Aug-15-2015	20	25.5	1,430
Aug-16-2015	20	26.2	1,500
Aug-17-2015	18	27.0	1,460
Aug-18-2015	15	26.5	1,480
Aug-19-2015	14	25.6	1,560
Aug-20-2015	14	25.3	1,600
Aug-21-2015	15	25.5	1,440
Aug-22-2015	19	26.0	1,330
Aug-23-2015	18	26.2	1,320
Aug-24-2015	17	25.8	1,370
Aug-25-2015	17	25.9	1,420
Aug-26-2015	15	26.3	1,440

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Aug-27-2015	13	26.1	1,420
Aug-28-2015	9	26.5	1,720
Aug-29-2015	9	26.2	1,730
Aug-30-2015	9	23.9	1,810
Aug-31-2015	9	23.5	1,730
Sep-01-2015	9	24.7	1,763
Sep-02-2015	9	24.1	1,843
Sep-03-2015	9	23.8	2,170
Sep-04-2015	10	22.6	1,802
Sep-05-2015	10	21.1	1,809
Sep-06-2015	9	20.9	1,911
Sep-07-2015	9	21.8	1,778
Sep-08-2015	8	22.5	1,815
Sep-09-2015	8	23.3	1,884
Sep-10-2015	8	24.4	1,925
Sep-11-2015	7	24.1	1,921
Sep-12-2015	8	22.9	1,897
Sep-13-2015	10	23.7	1,862
Sep-14-2015	12	22.1	1,845
Sep-15-2015	15	22.5	1,715
Sep-16-2015	13	20.8	1,696
Sep-17-2015	10	21.4	1,732
Sep-18-2015	8	21.1	1,872
Sep-19-2015	9	21.8	2,003
Sep-20-2015	11	22.4	2,013
Sep-21-2015	10	23.5	2,131
Sep-22-2015	12	23.9	2,105
Sep-23-2015	12	21.8	2,086
Sep-24-2015	13	22.2	2,151
Sep-25-2015	8	23.0	2,223
Sep-26-2015	5	22.4	2,332
Sep-27-2015	5	22.5	2,405
Sep-28-2015	5	22.0	2,443
Sep-29-2015	5	20.2	2,380
Sep-30-2015	4	19.2	2,423
Oct-01-2015	5	20.0	2,440
Oct-02-2015	7	20.7	2,447
Oct-03-2015	8	20.7	2,662
Oct-04-2015	12	19.2	2,208
Oct-05-2015	17	20.2	1,881
Oct-06-2015	22	21.1	1,760
Oct-07-2015	25	21.8	1,673
Oct-08-2015	21	22.5	1,618
Oct-09-2015	20	22.7	1,509
Oct-10-2015	22	21.8	1,418
Oct-11-2015	25	22.0	1,367
Oct-12-2015	25	22.1	1,334
Oct-13-2015	23	22.5	1,331

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Oct-14-2015	23	22.6	1,304
Oct-15-2015	21	22.4	1,312
Oct-16-2015	21	23.4	1,292
Oct-17-2015	19	22.8	1,336
Oct-18-2015	18	20.9	1,392
Oct-19-2015	15	19.9	1,418
Oct-20-2015	15	19.3	1,428
Oct-21-2015	22	18.8	1,368
Oct-22-2015	43	18.4	1,374
Oct-23-2015	93	18.2	1,421
Oct-24-2015	152	18.5	1,463
Oct-25-2015	179	18.5	1,487
Oct-26-2015	177	18.3	1,494
Oct-27-2015	155	18.2	1,440
Oct-28-2015	127	18.6	1,353
Oct-29-2015	86	18.5	1,197
Oct-30-2015	51	17.0	1,202
Oct-31-2015	43	17.1	1,204
Nov-01-2015	43	17.9	1,248
Nov-02-2015	47	17.4	1,284
Nov-03-2015	47	15.8	1,407
Nov-04-2015	18	14.4	1,428
Nov-05-2015	10	13.1	1,418
Nov-06-2015	39	12.9	1,449
Nov-07-2015	40	12.7	1,492
Nov-08-2015	45	12.6	1,501
Nov-09-2015	50	12.4	1,618
Nov-10-2015	55	11.6	1,625
Nov-11-2015	57	11.3	1,710
Nov-12-2015	59	11.3	1,774
Nov-13-2015	61	11.3	1,722
Nov-14-2015	57	11.5	1,673
Nov-15-2015	56	11.5	1,628
Nov-16-2015	58	10.1	1,548
Nov-17-2015	59	9.6	1,492
Nov-18-2015	61	10.0	1,503
Nov-19-2015	61	10.6	1,540
Nov-20-2015	61	10.3	1,575
Nov-21-2015	60	11.5	1,660
Nov-22-2015	57	11.9	1,750
Nov-23-2015	54	12.3	1,810
Nov-24-2015	52	11.7	1,840
Nov-25-2015	57	10.5	1,840
Nov-26-2015	64	9.0	1,840
Nov-27-2015	72	8.1	1,810
Nov-28-2015	75	7.5	1,780
Nov-29-2015	84	1.2	2,150
Nov-30-2015	92	6.8	2,330

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-01-2015	96	6.8	2,440
Dec-02-2015	83	7.3	2,710
Dec-03-2015	78	7.8	2,650
Dec-04-2015	76	8.8	2,380
Dec-05-2015	78	8.8	2,240
Dec-06-2015	77	9.3	2,240
Dec-07-2015	79	10.3	2,740
Dec-08-2015	76	10.8	2,260
Dec-09-2015	75	12.4	2,260
Dec-10-2015	75	11.9	2,200
Dec-11-2015	75	11.6	2,140
Dec-12-2015	77	10.8	2,180
Dec-13-2015	85	10.3	2,460
Dec-14-2015	94	8.9	2,720
Dec-15-2015	96	7.9	2,680
Dec-16-2015	97	7.2	2,320
Dec-17-2015	92	7.1	2,840
Dec-18-2015	91	7.2	3,040
Dec-19-2015	96	8.5	2,820
Dec-20-2015	101	8.3	2,690
Dec-21-2015	107	8.7	2,600
Dec-22-2015	113	10.1	2,640
Dec-23-2015	141	10.1	3,060
Dec-24-2015	311	9.0	2,630
Dec-25-2015	248	8.1	2,310
Dec-26-2015	253	7.3	1,940
Dec-27-2015	262	6.9	1,920
Dec-28-2015	230	7.0	1,850
Dec-29-2015	203	6.8	1,880
Dec-30-2015	181	6.5	1,960
Dec-31-2015	165	7.0	2,050

**NOTES:**

USGS data webpage

[http://waterdata.usgs.gov/nwis/dv/?site\\_no=11273400&agency\\_cd=USGS&referred\\_module=sw](http://waterdata.usgs.gov/nwis/dv/?site_no=11273400&agency_cd=USGS&referred_module=sw)



**Table 8b. Monthly averages and totals**

<b>PARAMETER</b>	<b>Total Flow</b>	<b>Average Temperature</b>	<b>Average Specific Conductance</b>
<b>DATA SOURCE</b>	<b>Calculated</b>	<b>Calculated</b>	<b>Calculated</b>
<b>UNITS</b>	<b>acre-feet</b>	<b>°C</b>	<b>µS/cm</b>
Jan-15	11,570	10	2,979
Feb-15	10,050	15	2,790
Mar-15	9,790	18	2,926
Apr-15	6,410	19	2,957
May-15	3,460	23	2,709
Jun-15	1,360	27	3,189
Jul-15	1,260	27	1,905
Aug-15	1,010	26	1,518
Sep-15	540	22	1,998
Oct-15	2,950	20	1,553
Nov-15	3,270	11	1,648
Dec-15	7,760	9	2,415

**NOTES:**

Table 9. Water quality monitoring in the San Joaquin River above Merced River at China Island Refuge (Station R)

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L
Jan-09-2015								
Jan-13-2015	11.5	7.8	2800	12.1	20.2	1.4	2.0	13
Jan-23-2015	12.2	7.8	2957	10.6	21.5	0.9	2.8	
Jan-30-2015								
Feb-04-2015	10.7	7.9	3021	14.3	43.7	1.2	2.5	
Feb-13-2015	9.9	7.8	2813	16.2	49.7	1.1	2.2	
Feb-19-2015	10.4	7.8	2570	15.1		0.9	2.0	10
Feb-27-2015	9.2	7.9	2578	14.9	50.2	0.9	2.1	
Mar-06-2015	10.1	8.0	3177	16.0	57.2	3.51 U	3.3	
Mar-13-2015	8.2	7.8	2667	17.1	65.5	1.1	2.0	
Mar-20-2015						1.0	2.2	11
Mar-27-2015								
Apr-01-2015	14.5	8.0	3292	16.3	28.7	0.8	2.1	13
Apr-10-2015	9.4	8.1	2726	17.4	36.0	0.5	1.7	
Apr-16-2015	9.6	8.1	3100	17.0	23.8	0.8	2.0	14
Apr-24-2015	9.1	8.1	3018	19.7	40.9	< 0.4	1.8	
May-01-2015	7.9	8.1	2829	23.7	31.8	0.42	1.4	
May-08-2015								
May-15-2015	9.5	8.0	2519	20.9	36.3	0.43	0.96	
May-21-2015	10	7.9	2517	18.9	24.8	< 0.4	0.97	12
May-27-2015	14	8.2	3102	22.3	35.3	< 0.4	1.4	13
Jun-04-2015		8.0	3684	21.4	33.0	< 0.4	1.4	
Jun-11-2015	6.7	8.3	2026	28.9	35.5	< 0.4	0.7	
Jun-17-2015	9.4	8.0	3297	24.8	12.2	< 0.4	1.2	13
Jun-25-2015	7.1	8.1	3240	27.4	17.6	< 0.4	1.2	
Jun-29-2015	13.4	8.3	4018	27.2	6.4	< 0.4	1.5	15
Jul-09-2015	8.3	8.2	2381	27.0	17.7	<0.4	0.8	
Jul-15-2015								
Jul-20-2015	9.5	8.1	1926	29.2	20.5	<0.4	0.50	
Jul-27-2015								
Aug-06-2015	12.8	8.2	1635	26.3	16.8	<0.4	0.53	
Aug-11-2015		7.9	1407	28.3	16.3	<0.4	0.47	9.00
Aug-17-2015		8.1	1369	29.2	16.2	<0.4	0.38	
Aug-24-2015	9.1	8.0	1382	21.6	20.2	<0.4	0.31	
Sep-01-2015	13.5	8.0	1347	22.7		<0.4	0.29	
Sep-08-2015	12.2	8.0	1820	20.1		<0.4	0.57	
Sep-18-2015								
Sep-21-2015	9.3	7.9	2072	23.5	7.1	<0.4	0.97	
Sep-28-2015	10.0	8.1	2283	22.7	7.4	<0.4	1.00	13.00
Oct-05-2015					24.1	<0.4	0.63	
Oct-16-2015	8.3	7.9	1217	22.0	12.0	<0.4	0.48	
Oct-19-2015	9.8	7.9	1401	17.9	7.9	<0.4	0.63	
Oct-26-2015	11.60	7.6	1577	16.9	8.2	<0.4	0.68	9.00
Nov-06-2015	14.40	7.80	1506	10.8	8.7	<0.4	0.72	
Nov-09-2015								
Nov-20-2015	9.7	8.1	1660	13.7	14.6	<0.4	0.98	
Nov-23-2015	9.4	7.8	1914	14.0	10.1	0.70	1.40	10.00
Nov-30-2015	11.3	8.1	2315	7.1	6.7	2.05 U	2.30	
Dec-07-2015	10.4	7.9	2276	12.6	7.3	<0.4	0.57	
Dec-15-2015	11.1	8.2	2610	10.6	7.5	1.74 U	3.10	
Dec-21-2015	10.3	7.9	2636	9.3	5.3	2.56 U	2.80	
Dec-29-2015	10.3	7.4	1910	6.8	14.7	2.13 U	2.20	9.00

NOTES:

Nutrients					
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N	Total Kjeldahl Nitrogen	Total Phosphorous as P	Ortho-phosphate as P
DATA SOURCE	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
Jan-13-2015	0.38	0.26	1.30	0.11	0.10
Feb-19-2015	0.79 T	0.15	1.40	0.14	0.10 T
Apr-01-2015	0.14	0.10	1.30	0.79	0.19
Apr-16-2015	0.28	0.21	1.40	0.21	0.12 T
May-21-2015	<0.010	<0.050	0.88	0.14	0.064 L
May-27-2015	<0.010	<0.050	0.85	0.17	0.04
Jun-17-2015	<0.010	0.07	0.73	0.15	0.06
Jun-29-2015	<0.010	<0.050	0.48	0.22	0.11
Aug-11-2015	<0.010	<0.050	0.28	0.09	0.04
Sep-28-2015	<0.010	<0.050			
Oct-26-2015	<0.010	0.058 T			
Nov-23-2015	<0.010	0.06			
Dec-29-2015	0.81 T	0.10			

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

**Table 10a. Water monitoring in the San Joaquin River at Fremont Ford (Station G)  
USGS Station Code: 11261500**

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Jan-01-2015	90	6.4	2,430
Jan-02-2015	91	6.3	2,400
Jan-03-2015	89	6.6	2,380
Jan-04-2015	85	7.0	2,460
Jan-05-2015	83	7.6	2,480
Jan-06-2015	83	8.3	2,440
Jan-07-2015	85	8.9	2,390
Jan-08-2015	81	9.6	2,370
Jan-09-2015	76	10.1	2,320
Jan-10-2015	72	11.3	2,340
Jan-11-2015	71	11.8	2,350
Jan-12-2015	74	11.7	2,260
Jan-13-2015	81	11.6	2,200
Jan-14-2015	88	10.9	2,180
Jan-15-2015	89	10.6	2,170
Jan-16-2015	89	10.5	2,180
Jan-17-2015	88	10.9	2,180
Jan-18-2015	86	11.2	2,220
Jan-19-2015	81	11.6	2,310
Jan-20-2015	79	11.8	2,270
Jan-21-2015	80	11.6	2,240
Jan-22-2015	78	11.4	2,330
Jan-23-2015	77	10.2	2,420
Jan-24-2015	75	10.3	2,460
Jan-25-2015	75	10.1	2,440
Jan-26-2015	77	9.9	2,390
Jan-27-2015	78	11.3	2,360
Jan-28-2015	80	11.5	2,310
Jan-29-2015	78	12.2	2,340
Jan-30-2015	78	12.5	2,330
Jan-31-2015	74	12.5	2,320
Feb-01-2015	76	12.4	2,350
Feb-02-2015	77	12.6	2,360
Feb-03-2015	77	13.0	2,460
Feb-04-2015	85	13.8	2,270
Feb-05-2015	91	13.8	2,040
Feb-06-2015	87	13.6	2,190
Feb-07-2015	83	14.9	2,320
Feb-08-2015	87	16.1	2,210
Feb-09-2015	104	16.2	1,970

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Feb-10-2015	121	15.6	1,860
Feb-11-2015	126	15.0	1,860
Feb-12-2015	119	15.0	2,050
Feb-13-2015	109	15.6	2,200
Feb-14-2015	103	16.0	2,180
Feb-15-2015	105	16.3	2,100
Feb-16-2015	104	16.4	2,040
Feb-17-2015	105	16.4	2,020
Feb-18-2015	114	16.2	1,850
Feb-19-2015	106	15.4	1,960
Feb-20-2015	97	15.0	2,050
Feb-21-2015	93	14.6	2,050
Feb-22-2015	97	13.9	1,970
Feb-23-2015	105	13.0	1,870
Feb-24-2015	124	12.9	1,690
Feb-25-2015	139	13.0	1,700
Feb-26-2015	145	13.4	1,760
Feb-27-2015	133	14.1	1,980
Feb-28-2015	121	14.1	2,090
Mar-01-2015	119	13.7	2,130
Mar-02-2015	114	14.3	2,120
Mar-03-2015	111	14.4	2,110
Mar-04-2015	108	14.5	2,200
Mar-05-2015	103	15.1	2,300
Mar-06-2015	97	15.6	2,390
Mar-07-2015	95	15.8	2,440
Mar-08-2015	96	16.5	2,350
Mar-09-2015	94	17.2	2,440
Mar-10-2015	97	17.6	2,380
Mar-11-2015	98	18.0	2,390
Mar-12-2015	116	17.8	2,190
Mar-13-2015	131	18.6	2,180
Mar-14-2015	134	19.9	2,230
Mar-15-2015	132	20.6	2,190
Mar-16-2015	127	19.4	2,230
Mar-17-2015	127	19.1	2,260
Mar-18-2015	118	19.0	2,380
Mar-19-2015	111	18.9	2,410
Mar-20-2015	103	19.1	2,480
Mar-21-2015	103	18.8	2,420
Mar-22-2015	97	19.4	2,530
Mar-23-2015	97	19.3	2,470

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Mar-24-2015	100	18.7	2,380
Mar-25-2015	96	18.5	2,480
Mar-26-2015	97	19.4	2,500
Mar-27-2015	101	20.9	2,460
Mar-28-2015	102	20.9	2,460
Mar-29-2015	92	20.2	2,670
Mar-30-2015	86	20.5	2,690
Mar-31-2015	80	20.0	2,660
Apr-01-2015	86	18.2	2,600
Apr-02-2015	88	17.0	2,530
Apr-03-2015	85	16.8	2,610
Apr-04-2015	88	17.8	2,550
Apr-05-2015	89	17.2	2,470
Apr-06-2015	90	16.3	2,430
Apr-07-2015	90	16.0	2,490
Apr-08-2015	97	15.8	2,300
Apr-09-2015	107	16.8	2,130
Apr-10-2015	112	17.9	2,050
Apr-11-2015	103	18.9	2,320
Apr-12-2015	90	19.0	2,530
Apr-13-2015	84	19.9	2,480
Apr-14-2015	86	19.0	2,480
Apr-15-2015	85	17.5	2,320
Apr-16-2015	80	17.8	2,290
Apr-17-2015	72	19.6	2,540
Apr-18-2015	75	20.9	2,640
Apr-19-2015	79	21.9	2,530
Apr-20-2015	74	22.5	2,440
Apr-21-2015	73	21.7	2,510
Apr-22-2015	83	20.7	2,360
Apr-23-2015	83	21.4	2,330
Apr-24-2015	80	21.0	2,340
Apr-25-2015	83	20.2	2,290
Apr-26-2015	94	19.6	2,200
Apr-27-2015	91	20.3	2,040
Apr-28-2015	84	22.4	1,970
Apr-29-2015	85	23.3	1,960
Apr-30-2015	83	23.1	2,010
May-01-2015	72	23.5	2,270
May-02-2015	70	24.3	2,170
May-03-2015	69	23.8	2,270
May-04-2015	68	22.8	2,240

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
May-05-2015	64	22.2	2,250
May-06-2015	61	21.5	2,170
May-07-2015	57	18.9	2,460
May-08-2015	61	19.1	2,320
May-09-2015	61	20.8	2,200
May-10-2015	69	22.3	2,010
May-11-2015	78	22.7	1,810
May-12-2015	84	21.8	1,770
May-13-2015	81	21.4	1,810
May-14-2015	70	20.7	2,000
May-15-2015	68	20.9	1,960
May-16-2015	65	20.9	1,800
May-17-2015	56	21.0	1,950
May-18-2015	56	21.2	2,050
May-19-2015	59	21.8	1,880
May-20-2015	56	22.5	1,790
May-21-2015	53	21.6	2,030
May-22-2015	54	21.3	2,040
May-23-2015	52	22.0	2,100
May-24-2015	53	22.6	2,080
May-25-2015	50	23.7	2,130
May-26-2015	45	23.6	2,300
May-27-2015	41	23.5	2,370
May-28-2015	37	23.6	3,010
May-29-2015	42	23.9	2,790
May-30-2015	40	24.3	2,830
May-31-2015	41	24.5	2,690
Jun-01-2015	40	23.8	2,460
Jun-02-2015	35	24.0	2,650
Jun-03-2015	30	23.7	2,840
Jun-04-2015	29	23.6	2,780
Jun-05-2015	31	24.7	2,740
Jun-06-2015	35	25.6	2,240
Jun-07-2015	38	26.5	2,140
Jun-08-2015	38	28.1	2,200
Jun-09-2015	41	27.0	1,900
Jun-10-2015	43	25.0	1,690
Jun-11-2015	39	26.0	1,760
Jun-12-2015	31	27.8	2,270
Jun-13-2015	30	28.5	2,570
Jun-14-2015	27	27.4	3,050
Jun-15-2015	24	25.7	3,150

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Jun-16-2015	22	25.5	1,900
Jun-17-2015	24	26.4	2,380
Jun-18-2015	20	25.6	1,570
Jun-19-2015	17	24.8	4,500
Jun-20-2015	17	25.2	4,650
Jun-21-2015	21	24.8	4,390
Jun-22-2015	25	24.6	2,940
Jun-23-2015	27	25.0	2,520
Jun-24-2015	24	26.0	2,910
Jun-25-2015	19	27.8	3,650
Jun-26-2015	17	28.1	3,380
Jun-27-2015	17	27.2	3,550
Jun-28-2015	17	27.0	3,450
Jun-29-2015	17	27.0	3,490
Jun-30-2015	19	28.0	2,910
Jul-01-2015	22	27.9	2,340
Jul-02-2015	26	27.0	2,180
Jul-03-2015	33	28.0	1,880
Jul-04-2015	32	28.8	1,920
Jul-05-2015	27	28.5	2,290
Jul-06-2015	27	27.5	2,210
Jul-07-2015	28	26.8	2,050
Jul-08-2015	25	26.7	2,160
Jul-09-2015	23	26.1	1,980
Jul-10-2015	20	25.0	2,350
Jul-11-2015	24	25.7	1,910
Jul-12-2015	35	26.3	1,480
Jul-13-2015	30	26.3	1,570
Jul-14-2015	29	26.7	1,570
Jul-15-2015	29	26.5	1,540
Jul-16-2015	27	27.3	1,560
Jul-17-2015	25	28.0	1,560
Jul-18-2015	23	27.4	1,690
Jul-19-2015	25	26.8	1,800
Jul-20-2015	24	28.5	1,500
Jul-21-2015	24	29.6	1,440
Jul-22-2015	24	28.4	1,460
Jul-23-2015	28	27.2	1,230
Jul-24-2015	26	26.4	1,430
Jul-25-2015	21	26.2	1,700
Jul-26-2015	21	26.2	1,660
Jul-27-2015	23	26.3	1,570

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Jul-28-2015	25	26.3	1,540
Jul-29-2015	26	27.2	1,440
Jul-30-2015	26	28.1	1,410
Jul-31-2015	28	28.1	1,360
Aug-01-2015	29	27.7	1,320
Aug-02-2015	26	27.2	1,330
Aug-03-2015	22	26.7	1,500
Aug-04-2015	21	25.3	1,500
Aug-05-2015	23	25.3	1,510
Aug-06-2015	24	24.7	1,580
Aug-07-2015	24	25.9	1,610
Aug-08-2015	27	26.3	1,500
Aug-09-2015	33	26.3	1,390
Aug-10-2015	33	26.2	1,310
Aug-11-2015	29	25.8	1,270
Aug-12-2015	30	25.7	1,220
Aug-13-2015	33	26.1	1,240
Aug-14-2015	32	25.8	1,340
Aug-15-2015	30	25.7	1,340
Aug-16-2015	27	26.6	1,260
Aug-17-2015	23	27.2	1,320
Aug-18-2015	20	26.9	1,390
Aug-19-2015	21	26.4	1,390
Aug-20-2015	25	26.1	1,300
Aug-21-2015	32	26.0	1,250
Aug-22-2015	33	26.0	1,250
Aug-23-2015	30	26.0	1,310
Aug-24-2015	30	25.8	1,280
Aug-25-2015	29	26.2	1,290
Aug-26-2015	25	26.2	1,280
Aug-27-2015	21	26.3	1,290
Aug-28-2015	17	27.0	1,270
Aug-29-2015	17	26.4	1,310
Aug-30-2015	19	24.9	1,170
Aug-31-2015	20	24.7	1,150
Sep-01-2015	19	24.9	1,231
Sep-02-2015	19	24.6	1,201
Sep-03-2015	20	23.6	1,201
Sep-04-2015	18	22.3	1,185
Sep-05-2015	17	21.9	1,240
Sep-06-2015	16	22.5	1,312
Sep-07-2015	17	23.1	1,348



<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Sep-08-2015	17	24.1	1,226
Sep-09-2015	17	25.0	1,279
Sep-10-2015	19	24.5	1,422
Sep-11-2015	20	23.4	1,505
Sep-12-2015	21	23.7	1,504
Sep-13-2015	24	22.7	1,463
Sep-14-2015	24	22.8	1,451
Sep-15-2015	21	21.5	1,464
Sep-16-2015	16	21.5	1,514
Sep-17-2015	16	21.4	1,547
Sep-18-2015	16	21.8	1,599
Sep-19-2015	17	22.4	1,693
Sep-20-2015	22	23.3	1,740
Sep-21-2015	22	23.9	1,803
Sep-22-2015	21	22.4	1,883
Sep-23-2015	18	22.3	1,985
Sep-24-2015	14	22.9	2,001
Sep-25-2015	13	23.0	2,168
Sep-26-2015	21	23.0	1,865
Sep-27-2015	28	20.7	1,265
Sep-28-2015	13	18.8	2,507
Sep-29-2015	15	19.7	2,432
Sep-30-2015	17	20.1	2,100
Oct-01-2015	17	20.7	1,983
Oct-02-2015	23	20.7	1,740
Oct-03-2015	30	19.6	1,627
Oct-04-2015	34	20.2	1,577
Oct-05-2015	37	20.9	1,540
Oct-06-2015	33	21.5	1,449
Oct-07-2015	30	22.3	1,333
Oct-08-2015	33	22.4	1,269
Oct-09-2015	37	21.8	1,228
Oct-10-2015	40	21.9	1,211
Oct-11-2015	41	21.9	1,211
Oct-12-2015	39	22.3	1,160
Oct-13-2015	37	22.4	1,144
Oct-14-2015	37	22.4	1,117
Oct-15-2015	34	23.3	1,191
Oct-16-2015	34	22.7	1,255
Oct-17-2015	35	21.2	1,281
Oct-18-2015	31	20.1	1,267
Oct-19-2015	34	19.6	1,203

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Oct-20-2015	32	18.9	1,259
Oct-21-2015	30	18.5	1,325
Oct-22-2015	31	18.5	1,371
Oct-23-2015	33	18.4	1,427
Oct-24-2015	35	18.4	1,497
Oct-25-2015	32	18.2	1,489
Oct-26-2015	38	18.3	1,218
Oct-27-2015	45	19.1	1,126
Oct-28-2015	52	18.0	1,084
Oct-29-2015	57	17.0	1,091
Oct-30-2015	55	17.2	1,118
Oct-31-2015	52	17.8	1,186
Nov-01-2015	54	17.0	1,247
Nov-02-2015	52	15.9	1,273
Nov-03-2015	50	14.3	1,319
Nov-04-2015	49	13.3	1,384
Nov-05-2015	51	13.0	1,457
Nov-06-2015	57	12.7	1,404
Nov-07-2015	63	12.6	1,296
Nov-08-2015	69	12.4	1,252
Nov-09-2015	67	11.8	1,306
Nov-10-2015	63	11.6	1,401
Nov-11-2015	62	11.4	1,500
Nov-12-2015	62	11.5	1,517
Nov-13-2015	60	11.6	1,483
Nov-14-2015	63	11.5	1,320
Nov-15-2015	70	10.3	1,273
Nov-16-2015	68	9.8	1,320
Nov-17-2015	64	10.0	1,388
Nov-18-2015	59	10.6	1,425
Nov-19-2015	58	10.3	1,471
Nov-20-2015	51	11.5	1,460
Nov-21-2015	50	11.8	1,440
Nov-22-2015	50	12.3	1,460
Nov-23-2015	51	12.3	1,490
Nov-24-2015	52	11.6	1,510
Nov-25-2015	53	10.5	1,520
Nov-26-2015	58	9.2	1,580
Nov-27-2015	58	8.3	1,530
Nov-28-2015	57	7.8	1,510
Nov-29-2015	61	7.4	1,520
Nov-30-2015	59	7.0	1,610

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>Specific Conductance</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>USGS</b>	<b>USGS</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>µS/cm</b>
Dec-01-2015	57	7.3	1,680
Dec-02-2015	56	7.7	1,700
Dec-03-2015	50	8.2	1,750
Dec-04-2015	49	9.1	1,820
Dec-05-2015	47	8.9	1,860
Dec-06-2015	48	9.9	1,800
Dec-07-2015	47	10.3	1,840
Dec-08-2015	46	10.8	1,850
Dec-09-2015	47	12.2	1,530
Dec-10-2015	49	11.6	1,510
Dec-11-2015	51	11.4	1,720
Dec-12-2015	53	10.6	1,730
Dec-13-2015	53	10.1	1,770
Dec-14-2015	54	8.7	1,750
Dec-15-2015	54	7.7	1,730
Dec-16-2015	54	7.0	1,770
Dec-17-2015	54	7.0	1,790
Dec-18-2015	54	7.2	1,840
Dec-19-2015	56	8.5	1,810
Dec-20-2015	59	8.2	1,770
Dec-21-2015	66	8.7	1,670
Dec-22-2015	70	10.2	1,570
Dec-23-2015	70	9.8	1,560
Dec-24-2015	76	8.7	1,550
Dec-25-2015	142	7.9	1,120
Dec-26-2015	197	7.8	1,040
Dec-27-2015	180	7.3	980
Dec-28-2015	164	7.3	1,000
Dec-29-2015	151	6.8	1,060
Dec-30-2015	139	6.5	1,110
Dec-31-2015	129	6.9	1,190

**NOTES:**

USGS data webpage

[http://waterdata.usgs.gov/nwis/dv/?site\\_no=11261500&agency\\_cd=USGS&referred\\_module=sw](http://waterdata.usgs.gov/nwis/dv/?site_no=11261500&agency_cd=USGS&referred_module=sw)

**Table 10b. Monthly averages and totals**

<b>PARAMETER</b>	<b>Total Flow</b>	<b>Average Temperature</b>	<b>Average Specific Conductance</b>
<b>DATA SOURCE</b>	<b>Calculated</b>	<b>Calculated</b>	<b>Calculated</b>
<b>UNITS</b>	<b>acre-feet</b>	<b>°C</b>	<b>µS/cm</b>
Jan-15	4,980	10	2,331
Feb-15	5,820	15	2,052
Mar-15	6,510	18	2,372
Apr-15	5,160	19	2,358
May-15	3,640	22	2,179
Jun-15	1,610	26	2,821
Jul-15	1,600	27	1,735
Aug-15	1,600	26	1,338
Sep-15	1,100	23	1,605
Oct-15	2,240	20	1,322
Nov-15	3,450	11	1,422
Dec-15	4,800	9	1,576

**NOTES:**

Table 10c. Other water quality monitoring in the San Joaquin River at Fremont Ford (Station G)

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L
Jan-09-2015	11.8	7.8	2,357	10.5	22.9	< 0.4	1.0	
Jan-13-2015	12.7	7.9	2,288	12.0	39.8	< 0.4	0.9	9
Jan-23-2015	13.7	7.7	2,524	10.4	25.6	< 0.4	1.2	
Jan-30-2015	10.6	7.8	2,452	12.8	23.7	< 0.4	1.0	
Feb-04-2015	12.3	8.1	2,314	14.1	25.4	< 0.4	1.1	
Feb-13-2015	10.4	7.8	2,237	15.7	40.9	< 0.4	1.1	
Feb-19-2015	10.9	7.8	1,962	15.2		< 0.4	0.9	9
Feb-27-2015	9.3	7.8	2,061	14.7	30.9	< 0.4	1.0	
Mar-06-2015	11.0	7.8	2,423	15.4	63.3	< 0.4	1.1	
Mar-13-2015	8.2	7.7	2,154	16.5	54.1	< 0.4	1.2	
Mar-20-2015				45.8		< 0.4	1.2	12
Mar-27-2015	9.6	7.9	2,206	19.5	27.9	< 0.4	0.9	
Apr-01-2015	14.6	7.9	2,636	15.7	26.3	< 0.4	1.0	13
Apr-10-2015	9.6	8.0	1,900	16.9	29.6	< 0.4	0.8	
Apr-16-2015	9.2	7.9	2,358	15.7	26.3	< 0.4	0.9	12
Apr-24-2015	9.2	8.0	2,470	19.3	27.3	< 0.4	1.1	
May-01-2015	7.1	7.9	2,436	21.6	38.0	< 0.4	0.8	
May-08-2015	9.2	7.9	2,355	17.4	30.2	< 0.4	0.8	
May-15-2015	8.0	7.8	2,147	19.7	32.6	< 0.4	0.7	
May-21-2015	9.8	7.8	1,536	18.2	23.5	< 0.4	0.7	11
May-27-2015	13.6	7.8	2,533	20.6	30.0	< 0.4	0.9	13
Jun-04-2015		7.5	3,249	20.1	38.1	< 0.4	1.1	
Jun-11-2015	7.9	7.9	2,065	27.0	37.1	< 0.4	0.7	
Jun-17-2015	7.5	7.5	2,659	22.9	24.1	< 0.4	1.0	11
Jun-25-2015	13.2	7.6	3,999	25.6	22.8	< 0.4	1.4	
Jun-29-2015	12.3	7.6	3,548	25.1	12.6	< 0.4	1.2	11
Jul-09-2015	7.0	7.9	2,031	25.6	26.8	< 0.4	0.6	
Jul-15-2015	9.2	7.9	1,616	25.7	16.2	< 0.4	0.5	10
Jul-20-2015	9.2	7.9	1,610	27.9	19.8	< 0.4	0.4	
Jul-27-2015	11.1	7.7	1,655	24.9	9.7	< 0.4	0.5	8
Aug-06-2015	13.2	8.0	1,742	25.5	8.0	< 0.4	0.5	
Aug-11-2015		7.9	1,334	26.3	7.4	< 0.4	0.4	8
Aug-17-2015		7.9	1,407	27.3	7.4	< 0.4	0.4	
Aug-24-2015	8.6	7.9	1,287	23.1	6.0	< 0.4	0.3	
Sep-01-2015	13.3	7.8	1,305	22.1		< 0.4	0.3	
Sep-08-2015	11.1	7.8	1,487	19.9		< 0.4	0.3	
Sep-18-2015	9.6	7.7	1,571	22.0	3.4	< 0.4	0.8	
Sep-21-2015	7.2	7.6	1,798	22.6	4.9	< 0.4	0.9	
Sep-28-2015	11.6	7.5	3,671	21.8	9.2	< 0.4	1.3	10
Oct-05-2015					7.3	< 0.4	0.6	
Oct-16-2015	7.5	7.7	1,212	21.5	9.0	< 0.4	0.5	
Oct-19-2015	9.0	7.7	1,317	18.0	6.1	< 0.4	0.6	
Oct-26-2015	10.3	7.6	1,511	17.5	7.0	< 0.4	0.7	9
Nov-06-2015	13.7	7.3	1,493	10.6	10.6	< 0.4	0.6	
Nov-09-2015								
Nov-20-2015	10.4	8.0	1,528	13.3	10.0	< 0.4	0.7	
Nov-23-2015	10.1	7.6	1,565	13.6	13.0	< 0.4	0.6	8
Nov-30-2015	11.1	8.0	1,611	7.7	9.3	< 0.4	0.7	
Dec-07-2015	10.7	8.0	2,035	12.3	7.4	< 0.4	0.9	
Dec-15-2015	11.7	7.7	1,832	8.6	13.6	< 0.4	0.8	
Dec-21-2015	11.2	7.7	1,682	9.2	14.8	< 0.4	0.8	
Dec-29-2015	10.4	7.3	1,059	7.0	26.0	< 0.4	0.5	5

NOTES:

Nutrients					
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N	Total Kjeldahl Nitrogen	Total Phosphorous as P	Ortho-phosphate as P
DATA SOURCE	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
Jan-13-2015	0.24	0.14	1	0.09	0.03
Feb-19-2015	0.93 T	0.14	1	0.15	0.042 T
Apr-01-2015	0.15	0.10	1	0.13	0.05
Apr-16-2015	0.23	0.14	1	0.14	0.063 T
May-21-2015	0.02	<0.050	1	0.12	0.030 L
May-27-2015	<0.010	<0.050	1	0.18	0.02
Jun-17-2015	<0.010	0.09	1	0.17	0.02
Jun-29-2015	<0.010	0.08	0	0.16	0.02
Jul-15-2015	<0.010	<0.050	0	0.11	0.05
Jul-27-2015	<0.020	<0.050	<0.20	0.13	0.06
Aug-11-2015	<0.010	<0.050	0	0.08	0.03
Sep-28-2015	<0.010	<0.050			
Oct-26-2015	<0.010	0.072 T			
Nov-23-2015	<0.010	0.08			
Dec-29-2015	1.1 T	0.14			

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

**Table 11a. Water monitoring in the San Joaquin River at Crows Landing(Station N)  
USGS Station Code: 11274550**

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jan-01-2015	482	6.5	1,480	
Jan-02-2015	451	6.7	1,480	
Jan-03-2015	429	6.8	1,480	
Jan-04-2015	418	7.1	1,500	
Jan-05-2015	425	7.6	1,470	
Jan-06-2015	421	8.0		
Jan-07-2015	425	8.6	1,440	
Jan-08-2015	417	9.1	1,440	
Jan-09-2015	401	10.0	1,450	0.63
Jan-10-2015	377	10.9	1,450	0.67
Jan-11-2015	364	11.7	1,470	0.87
Jan-12-2015	351	11.9	1,480	0.84
Jan-13-2015	349	11.8	1,470	0.69
Jan-14-2015	356	11.2	1,450	0.66
Jan-15-2015	377	10.8	1,420	0.72
Jan-16-2015	376	10.8	1,400	0.55
Jan-17-2015	373	11.2	1,400	0.67
Jan-18-2015	369	11.4	1,390	0.54
Jan-19-2015	364	11.8	1,410	0.57
Jan-20-2015	357	11.9	1,440	0.53
Jan-21-2015	351	11.9	1,460	0.47
Jan-22-2015	355	11.9	1,470	0.46
Jan-23-2015	353	10.8	1,500	0.48
Jan-24-2015	355	10.7	1,520	0.49
Jan-25-2015	361	10.3	1,570	0.53
Jan-26-2015	367	10.2	1,600	0.56
Jan-27-2015	371	11.0	1,620	0.62
Jan-28-2015	375	11.5	1,620	0.78
Jan-29-2015	380	12.1	1,590	0.77
Jan-30-2015	381	12.1	1,670	0.90
Jan-31-2015	380	12.2	1,740	1.43
Feb-01-2015	368	12.5	2,020	1.69
Feb-02-2015	354	12.5	1,930	1.79
Feb-03-2015	345	13.1	1,710	0.89
Feb-04-2015	343	13.5	1,600	0.62
Feb-05-2015	338	13.9	1,590	0.64
Feb-06-2015	352	13.8	1,520	0.64
Feb-07-2015	363	14.7	1,510	0.67
Feb-08-2015	386	15.8	1,570	0.76
Feb-09-2015	414	15.6	1,660	1.35
Feb-10-2015	429	15.5	1,690	1.06
Feb-11-2015	408	15.0	1,810	1.48
Feb-12-2015	384	15.0	1,810	1.59
Feb-13-2015	361	15.4	1,730	1.18
Feb-14-2015	346	15.9	1,730	0.86
Feb-15-2015	337	16.3	1,720	0.73
Feb-16-2015	333	16.4	1,660	0.68
Feb-17-2015	328	16.2	1,660	0.65
Feb-18-2015	326	16.0	1,660	0.68

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Feb-19-2015	321	15.8	1,640	0.65
Feb-20-2015	306	15.4	1,660	0.69
Feb-21-2015	305	15.3	1,720	0.63
Feb-22-2015	311	14.4	1,680	0.60
Feb-23-2015	323	13.3	1,620	0.60
Feb-24-2015	320	13.3	1,560	0.60
Feb-25-2015	328	13.5	1,540	0.54
Feb-26-2015	353	14.0	1,520	0.69
Feb-27-2015	376	14.7	1,600	0.92
Feb-28-2015	374	14.5	1,610	0.66
Mar-01-2015	351	14.1	1,680	0.77
Mar-02-2015	335	14.7	1,950	1.29
Mar-03-2015	318	14.8	1,940	1.25
Mar-04-2015	297	15.1	1,880	0.89
Mar-05-2015	286	15.4		0.67
Mar-06-2015	279	15.7	1,990	1.07
Mar-07-2015	283	16.0	2,270	2.15
Mar-08-2015	284	16.6	2,320	2.29
Mar-09-2015	293	17.4	2,270	1.76
Mar-10-2015	275	18.0	2,270	2.06
Mar-11-2015	264	18.2	2,240	1.40
Mar-12-2015	255	18.3	2,250	1.00
Mar-13-2015	257	18.8	2,170	0.91
Mar-14-2015	267	20.2	2,130	0.80
Mar-15-2015	273	21.2	2,040	0.81
Mar-16-2015	276	19.8	2,010	0.84
Mar-17-2015	267	19.4	1,950	0.72
Mar-18-2015	268	19.2	1,880	0.76
Mar-19-2015	267	19.1	1,890	0.81
Mar-20-2015	255	19.3	2,000	0.82
Mar-21-2015	244	18.8	2,010	0.80
Mar-22-2015	250	19.5	1,980	0.84
Mar-23-2015	239	19.7	2,010	0.84
Mar-24-2015	236	19.0	2,100	1.29
Mar-25-2015	227	18.9	2,230	1.01
Mar-26-2015	224	19.6	2,290	2.42
Mar-27-2015	243	20.6	2,240	3.18
Mar-28-2015	263	20.8	2,260	2.60
Mar-29-2015	268	20.2	2,150	1.98
Mar-30-2015	252	20.6	2,080	1.35
Mar-31-2015	236	20.3	2,000	0.86
Apr-01-2015	227	18.4	1,910	0.73
Apr-02-2015	221	17.4	1,900	0.61
Apr-03-2015	221	17.1	1,920	0.57
Apr-04-2015	218	18.1	1,900	0.60
Apr-05-2015	212	17.6	1,940	0.55
Apr-06-2015	203	16.8	1,970	0.51
Apr-07-2015	191	16.6	1,880	0.48
Apr-08-2015	178	16.2	2,040	0.44
Apr-09-2015	197	17.2	1,980	0.50
Apr-10-2015	218	18.5	1,750	0.46

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Apr-11-2015	220	19.3	1,750	< 0.4
Apr-12-2015	216	19.5	1,780	< 0.4
Apr-13-2015	215	20.0	1,940	0.61
Apr-14-2015	207	19.0	2,030	0.74
Apr-15-2015	199	17.5	2,070	0.73
Apr-16-2015	186	17.8	2,060	0.71
Apr-17-2015	179	19.9	2,060	0.66
Apr-18-2015	164	21.2	2,080	0.62
Apr-19-2015	154	22.4	2,230	0.70
Apr-20-2015	141	22.9	2,080	0.61
Apr-21-2015	138	22.3	2,060	0.51
Apr-22-2015	140	22.0	2,050	0.49
Apr-23-2015	141	22.2	1,990	0.45
Apr-24-2015	159	21.9	1,920	< 0.4
Apr-25-2015	153	20.8	1,940	0.40
Apr-26-2015	160	20.1	1,890	0.40
Apr-27-2015	192	20.4	1,660	< 0.4
Apr-28-2015	190	22.8	1,490	< 0.4
Apr-29-2015	178	23.5	1,560	< 0.4
Apr-30-2015	167			< 0.4
May-01-2015	134			0.42
May-02-2015	112	24.0	2,160	< 0.4
May-03-2015	143	24.0	2,120	0.41
May-04-2015	155	23.3	1,820	< 0.4
May-05-2015	134	22.6	1,920	< 0.4
May-06-2015	117	22.5	2,060	0.53
May-07-2015	114	19.7	2,150	0.46
May-08-2015	131	19.0	2,040	0.42
May-09-2015	123	21.2	2,130	0.40
May-10-2015	126	22.7	2,130	0.41
May-11-2015	139	22.9	1,880	0.40
May-12-2015	143	21.9	1,700	< 0.4
May-13-2015	152	21.4	1,540	< 0.4
May-14-2015	150	20.1	1,560	< 0.4
May-15-2015	134	20.0	1,680	< 0.4
May-16-2015	122	21.3	1,790	< 0.4
May-17-2015	133	21.6	1,690	< 0.4
May-18-2015	133	20.8	1,540	< 0.4
May-19-2015	120	21.9	1,660	< 0.4
May-20-2015	123	22.6	1,610	< 0.4
May-21-2015	119	21.7	1,480	< 0.4
May-22-2015	112	21.1	1,480	< 0.4
May-23-2015	102	22.3	1,620	< 0.4
May-24-2015	99	23.4	1,570	< 0.4
May-25-2015	110	23.8	1,520	< 0.4
May-26-2015	95	23.4	1,580	< 0.4
May-27-2015	86	23.6	1,640	< 0.4
May-28-2015	73	23.7	1,790	< 0.4
May-29-2015	69	23.8	1,990	0.44
May-30-2015	74	23.4	1,970	< 0.4
May-31-2015	81	23.9	2,070	< 0.4



PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jun-01-2015	80	23.2	2,080	< 0.4
Jun-02-2015	86	23.7	1,710	< 0.4
Jun-03-2015	70	24.1	1,780	< 0.4
Jun-04-2015	68	23.9	1,800	< 0.4
Jun-05-2015	67	24.8	1,890	< 0.4
Jun-06-2015	65	25.5	1,910	0.49
Jun-07-2015	54	26.1	2,020	0.41
Jun-08-2015	46	27.6	2,040	0.48
Jun-09-2015	51	26.7	1,870	0.42
Jun-10-2015	65	25.1	1,840	< 0.4
Jun-11-2015	70	25.0	1,630	< 0.4
Jun-12-2015	58	27.5	1,560	< 0.4
Jun-13-2015	45	28.8	1,620	< 0.4
Jun-14-2015	51	27.6	1,740	< 0.4
Jun-15-2015	45	26.3	1,860	< 0.4
Jun-16-2015	51	25.4	1,980	0.44
Jun-17-2015	44	25.9	2,130	0.54
Jun-18-2015	57	26.1	2,060	0.45
Jun-19-2015	53	24.5	1,970	0.47
Jun-20-2015	48	24.8	1,790	0.45
Jun-21-2015	51	25.3	1,920	0.48
Jun-22-2015	41	24.0	1,810	0.55
Jun-23-2015	42	24.4	2,030	0.55
Jun-24-2015	42	25.4	2,100	0.47
Jun-25-2015	38	27.0	1,890	< 0.4
Jun-26-2015	41	27.4	1,660	0.49
Jun-27-2015	35	26.6	1,620	0.50
Jun-28-2015	31	26.0	1,820	0.73
Jun-29-2015	26	26.0	1,790	0.68
Jun-30-2015	31	26.5	1,730	0.69
Jul-01-2015	35	27.7	1,900	0.65
Jul-02-2015	38	26.4	1,750	0.47
Jul-03-2015	43	27.2	1,780	< 0.4
Jul-04-2015	45	27.2	1,630	< 0.4
Jul-05-2015	51	27.4	1,600	< 0.4
Jul-06-2015	31	26.5	1,460	< 0.4
Jul-07-2015	34	25.7	1,710	0.53
Jul-08-2015	35	25.4	1,540	0.58
Jul-09-2015	33	25.1	1,650	0.61
Jul-10-2015	31	23.9	1,580	0.72
Jul-11-2015	28	24.3	1,450	0.47
Jul-12-2015	26	25.1	1,440	0.46
Jul-13-2015	37	25.3	1,690	0.56
Jul-14-2015	30	25.5	1,600	0.53
Jul-15-2015	39	25.3	1,340	0.59
Jul-16-2015	36	26.3	1,420	0.49
Jul-17-2015	29	26.7	1,740	0.55
Jul-18-2015	33	26.0	1,770	0.53
Jul-19-2015	39	25.6	1,690	0.70
Jul-20-2015	35	27.0	1,630	0.65
Jul-21-2015	37	27.9	1,690	0.53

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jul-22-2015	36	26.7	1,530	0.42
Jul-23-2015	33	25.4	1,630	< 0.4
Jul-24-2015	52	25.0	1,330	< 0.4
Jul-25-2015	37	24.8	1,550	< 0.4
Jul-26-2015	36	24.8	1,540	< 0.4
Jul-27-2015	32	25.0	1,620	0.50
Jul-28-2015	22	25.0	1,630	< 0.4
Jul-29-2015	28	25.6	1,820	0.83
Jul-30-2015	29	26.5	1,770	0.84
Jul-31-2015	25	26.6	1,790	0.60
Aug-01-2015	41	26.2	1,740	0.43
Aug-02-2015	54	25.4	1,460	< 0.4
Aug-03-2015	48	25.4	1,420	0.45
Aug-04-2015	53	24.2	1,290	< 0.4
Aug-05-2015	34	24.0	1,200	< 0.4
Aug-06-2015	21	23.9	1,690	0.45
Aug-07-2015	34	23.6	1,810	0.44
Aug-08-2015	32	25.5	1,500	0.51
Aug-09-2015	54	24.7	1,620	0.49
Aug-10-2015	60	25.2	1,580	0.42
Aug-11-2015	57	24.4	1,660	0.42
Aug-12-2015	60	24.0	1,530	0.45
Aug-13-2015	64	24.3	1,500	0.44
Aug-14-2015	59	24.6	1,330	< 0.4
Aug-15-2015	54	24.3	1,410	< 0.4
Aug-16-2015	71	24.9	1,340	< 0.4
Aug-17-2015	70	26.1	1,420	< 0.4
Aug-18-2015	68	25.9	1,360	< 0.4
Aug-19-2015	63	25.4	1,390	0.49
Aug-20-2015	62	25.1	1,400	< 0.4
Aug-21-2015	64	24.6	1,460	0.55
Aug-22-2015	74	24.6	1,400	0.46
Aug-23-2015	74	25.2	1,360	< 0.4
Aug-24-2015	72	24.9	1,460	< 0.4
Aug-25-2015	70	25.1	1,510	< 0.4
Aug-26-2015	31	24.6	1,620	< 0.4
Aug-27-2015	39	24.7	1,530	< 0.4
Aug-28-2015	43	25.1	1,260	< 0.4
Aug-29-2015	37	25.3	1,220	< 0.4
Aug-30-2015	43	23.7	1,520	< 0.4
Aug-31-2015	39	23.1	1,280	< 0.4
Sep-01-2015	31	23.7	1,299	< 0.4
Sep-02-2015	27	23.6	1,334	< 0.4
Sep-03-2015	32	22.9	1,367	< 0.4
Sep-04-2015	27	22.0	1,299	0.44
Sep-05-2015	32	20.9	1,360	< 0.4
Sep-06-2015	35	20.7	1,313	0.46
Sep-07-2015	31	21.0	1,268	0.51
Sep-08-2015	21	21.7	1,382	0.51
Sep-09-2015	16	22.8	1,559	0.48
Sep-10-2015	15	23.4	1,584	0.46

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Sep-11-2015	21	22.9	1,469	< 0.4
Sep-12-2015	14	22.4	1,390	0.42
Sep-13-2015	23	22.4	1,402	< 0.4
Sep-14-2015	23	21.9	1,312	< 0.4
Sep-15-2015	22	21.2	1,242	< 0.4
Sep-16-2015	25	20.1	1,229	0.47
Sep-17-2015	31	20.5	1,294	< 0.4
Sep-18-2015	41	20.7	1,244	< 0.4
Sep-19-2015	42	21.1	1,244	< 0.4
Sep-20-2015	42	21.7	1,215	< 0.4
Sep-21-2015	46	22.7	1,118	< 0.4
Sep-22-2015	42	23.2	1,125	< 0.4
Sep-23-2015	42	21.9	1,231	< 0.4
Sep-24-2015	35	21.7	1,293	< 0.4
Sep-25-2015	39	22.3		< 0.4
Sep-26-2015	42	22.4		< 0.4
Sep-27-2015	39	22.4		< 0.4
Sep-28-2015	35	22.0		< 0.4
Sep-29-2015	27	21.0		< 0.4
Sep-30-2015	37	19.7		< 0.4
Oct-01-2015	35	19.7		< 0.4
Oct-02-2015	33	20.2		< 0.4
Oct-03-2015	37	20.5		< 0.4
Oct-04-2015	41	19.3		< 0.4
Oct-05-2015	40	19.4		< 0.4
Oct-06-2015	36	20.1		< 0.4
Oct-07-2015	35	20.8		< 0.4
Oct-08-2015	51	21.6		< 0.4
Oct-09-2015	62	21.7		< 0.4
Oct-10-2015	70	21.3		< 0.4
Oct-11-2015	51	21.2		< 0.4
Oct-12-2015	46	21.2		< 0.4
Oct-13-2015	46	21.5		< 0.4
Oct-14-2015	45	21.8	1,300	< 0.4
Oct-15-2015	43	21.8	1,297	< 0.4
Oct-16-2015	43	22.1	1,294	< 0.4
Oct-17-2015	44	22.1	1,244	< 0.4
Oct-18-2015	40	20.6	1,258	< 0.4
Oct-19-2015	40	19.5	1,250	< 0.4
Oct-20-2015	41	19.0	1,251	< 0.4
Oct-21-2015	44	18.3	1,227	< 0.4
Oct-22-2015	49	17.9	1,145	< 0.4
Oct-23-2015	76	18.1	845	< 0.4
Oct-24-2015	168	18.4	455	< 0.4
Oct-25-2015	321	18.8	237	< 0.4
Oct-26-2015	421	18.6	233	< 0.4
Oct-27-2015	490	18.6	227	< 0.4
Oct-28-2015	522	18.6	222	< 0.4
Oct-29-2015	545	18.5	234	< 0.4
Oct-30-2015	522	17.5	241	< 0.4
Oct-31-2015	486	17.4	258	< 0.4

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Nov-01-2015	453	17.9	276	< 0.4
Nov-02-2015	459	17.8	291	< 0.4
Nov-03-2015	454	16.6	318	< 0.4
Nov-04-2015	419	15.4	356	< 0.4
Nov-05-2015	396	14.3	373	< 0.4
Nov-06-2015	374	14.0	384	< 0.4
Nov-07-2015	359	13.7	401	< 0.4
Nov-08-2015	354	13.5	425	< 0.4
Nov-09-2015	374	13.4	450	< 0.4
Nov-10-2015	377	12.7	517	< 0.4
Nov-11-2015	368	12.1	541	< 0.4
Nov-12-2015	368	12.0	545	< 0.4
Nov-13-2015	367	11.9	560	< 0.4
Nov-14-2015	360	12.0	571	< 0.4
Nov-15-2015	344	12.1	581	< 0.4
Nov-16-2015	332	11.1	603	< 0.4
Nov-17-2015	324	10.3	606	< 0.4
Nov-18-2015	321	10.4	602	< 0.4
Nov-19-2015	324	10.9	607	< 0.4
Nov-20-2015	321	11.2	619	< 0.4
Nov-21-2015	313	11.9	625	< 0.4
Nov-22-2015	314	12.1	631	< 0.4
Nov-23-2015	312	12.4	660	< 0.4
Nov-24-2015	308	12.1	694	< 0.4
Nov-25-2015	313	11.3	703	< 0.4
Nov-26-2015	315	10.0	699	< 0.4
Nov-27-2015	319	9.0	690	< 0.4
Nov-28-2015	320	8.4	693	< 0.4
Nov-29-2015	315	8.0	694	< 0.4
Nov-30-2015	320	7.6	745	< 0.4
Dec-01-2015	322	7.4	875	0.75
Dec-02-2015	322	7.7	927	0.69
Dec-03-2015	328	8.1	994	0.65
Dec-04-2015	325	8.8	1,010	0.50
Dec-05-2015	322	9.1	962	0.43
Dec-06-2015	328	9.3	901	< 0.4
Dec-07-2015	331	10.0	862	< 0.4
Dec-08-2015	335	10.6	842	< 0.4
Dec-09-2015	333	11.4	829	< 0.4
Dec-10-2015	333	11.8	822	< 0.4
Dec-11-2015	335	11.6	802	< 0.4
Dec-12-2015	330	11.0	812	< 0.4
Dec-13-2015	335	10.6	835	< 0.4
Dec-14-2015	355	9.3	893	< 0.4
Dec-15-2015	367	8.4	1,030	0.50
Dec-16-2015	373	7.8	1,100	0.63
Dec-17-2015	372	7.5	1,040	0.50
Dec-18-2015	367	7.4	1,120	0.63
Dec-19-2015	369	8.0	1,270	1.04
Dec-20-2015	376	8.3	1,300	1.30
Dec-21-2015	388	8.5	1,240	1.02

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Dec-22-2015	406	9.3	1,210	0.89
Dec-23-2015	422	9.9	1,210	1.13
Dec-24-2015	561	9.3	1,250	1.43
Dec-25-2015	714	8.9	879	0.81
Dec-26-2015	666	7.9	931	0.82
Dec-27-2015	695	7.0	946	0.84
Dec-28-2015	685	7.0	936	0.95
Dec-29-2015	633	6.8	986	1.00
Dec-30-2015	586	6.6	1,010	1.04
Dec-31-2015	550	6.7	1,030	1.08

**NOTES:**

USGS data webpage

[http://waterdata.usgs.gov/nwis/dv/?site\\_no=11274550&agency\\_cd=USGS&referred\\_module=sw](http://waterdata.usgs.gov/nwis/dv/?site_no=11274550&agency_cd=USGS&referred_module=sw)

**Table 11b. Monthly averages and totals**

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance	Average Selenium
DATA SOURCE	Calculated	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm	µg/L
Jan-15	23,630	10.34	1,496	0.67
Feb-15	19,500	14.69	1,669	0.88
Mar-15	16,530	18.36	2,083	1.30
Apr-15	11,080	19.63	1,925	0.57
May-15	7,260	22.25	1,796	0.43
Jun-15	3,080	25.71	1,855	0.52
Jul-15	2,130	25.90	1,622	0.58
Aug-15	3,260	24.77	1,460	0.46
Sep-15	1,850	21.89	1,316	0.47
Oct-15	8,970	19.88	790	<0.4
Nov-15	21,020	12.20	549	<0.4
Dec-15	26,110	8.77	995	0.85

**NOTES:**

Table 11c. Other water quality monitoring in the San Joaquin River at Crows Landing (Station N)

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L
Jan-09-2015	12.0	7.8	1,528	10.5	9.4	0.67	1.1	
Jan-13-2015	12.7	7.8	1,557	12.0	9.9	0.72	1.1	8
Jan-23-2015	13.5	7.8	1,657	10.5	8.2	0.52	1.4	
Jan-30-2015	10.3	7.8	1,812	12.5	13.2	0.97	1.6	
Feb-04-2015	11.4	7.9	1,752	13.9	12.9	0.66	1.4	
Feb-13-2015	11.2	7.9	1,924	16.1	25.7	0.88	1.4	
Feb-19-2015	9.4	7.8	1,815	15.8		0.63	1.2	8
Feb-27-2015	9.9	7.9	1,861	14.3	28.9	0.71	1.4	
Mar-06-2015	11.8	8.0	2,332	15.6	25.0	1.51	1.8	
Mar-13-2015	8.0	7.8	2,241	16.6	20.4	0.95	1.6	
Mar-20-2015						0.81	1.6	10
Mar-27-2015	10.1	8.1	2,610	19.2	20.7	2.96 U	2.1	
Apr-01-2015	11.9	8.0	2,201	15.8	20.8	0.66	1.3	9
Apr-10-2015	8.9	7.9	1,999	16.6	25.9	< 0.4	1.1	
Apr-16-2015	9.4	7.9	2,289	15.0	17.7	0.66	1.4	9
Apr-24-2015	9.2	8.0	2,184	19.8	23.1	< 0.4	1.2	
May-01-2015	7.8	7.8	1,980	20.7	26.8	0.51	1.0	
May-08-2015	13.1	8.1	2,070	16.2	30.8	0.41	0.9	
May-15-2015	10.9	7.9	1,784	17.7	22.7	0.47	0.7	
May-21-2015	9.9	7.9	1,529	18.4	21.7	0.53	0.6	6
May-27-2015	13.5	8.0	1,745	19.7	20.8	0.55	0.7	7
Jun-04-2015		7.5	1,907	19.9	24.1	< 0.4	0.8	
Jun-11-2015	12.1	8.3	1,674	24.5	22.9	< 0.4	0.6	
Jun-17-2015	5.0	7.6	2,360	21.1	15.7	0.51	1.0	8
Jun-25-2015	6.5	7.5	2,011	22.5	15.3	0.43	0.8	
Jun-29-2015	4.3	7.5	1,935	22.3	22.3	0.77	0.8	5
Jul-09-2015	5.8	7.7	1,763	22.9	42.1	0.72	0.7	
Jul-15-2015	6.1	7.6	1,416	22.7	24.0	0.51	0.5	6
Jul-20-2015	5.6	7.5	1,619	23.0	36.9	0.74	0.6	
Jul-27-2015	8.0	7.5	1,661	22.9	21.3	0.55	0.6	5
Aug-06-2015	13.0	7.7	1,785	24.4	16.6	0.54	0.7	
Aug-11-2015		7.6	1,773	22.9	14.4	0.46	0.7	6
Aug-17-2015		7.6	1,642	24.7	13.9	0.42	0.6	
Aug-24-2015	7.1	7.7	1,516	21.8	18.2	<0.4	0.6	
Sep-01-2015	8.9	7.8	1,396	20.6		<0.4	0.5	
Sep-08-2015	9.7	7.4	1,483	18.8		0.42	0.6	
Sep-18-2015	6.6	6.9	1,249	22.2	13.5	<0.4	0.4	
Sep-21-2015	5.7	7.0	1,113	22.9	8.6	<0.4	0.4	
Sep-28-2015	4.8	7.3	1,496	21.5	12.5	<0.4	0.6	5
Oct-05-2015					13.3	<0.4	0.4	
Oct-16-2015	6.5	7.2	1,299	20.0	6.4	<0.4	0.5	
Oct-19-2015	8.0	7.2	1,251	17.0	8.0	<0.4	0.5	
Oct-26-2015	6.1	7.4	187	18.0	7.1	<0.4	0.1	<1.0 U
Nov-06-2015	11.8	7.5	396	10.7	6.0	<0.4	0.1	
Nov-09-2015	10.3	7.2	434	10.7	8.9	<0.4	0.1	
Nov-20-2015	9.0	8.1	602	11.5	6.9	<0.4	0.3	
Nov-23-2015	10.0	7.6	659	16.6	5.6	<0.4	0.3	4
Nov-30-2015	10.6	7.5	785	7.0	2.8	<0.4	0.5	
Dec-07-2015	10.8	8.2	851	11.4	6.3	0.64	1.7	
Dec-15-2015	10.0	7.8	1,112	7.9	2.8	0.60	1.1	
Dec-21-2015	10.7	7.5	1,281	9.3	2.9	0.88	1.4	
Dec-29-2015	10.6	7.2	997	6.4	10.6	0.90	1.0	4

NOTES:

Nutrients					
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N	Total Kjeldahl Nitrogen	Total Phosphorous as P	Ortho-phosphate as P
DATA SOURCE	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
Jan-13-2015	2.20	0.13	1	0.12	0.12
Feb-19-2015	1.3 T	0.09	1	0.15	0.073 T
Apr-01-2015	1.00	0.17	1	0.18	0.12
Apr-16-2015	1.50	0.07	1	0.15	0.092 T
May-21-2015	2.20	< 0.050	1	0.16	0.080 L
May-27-2015	0.59	< 0.050	1	0.20	0.06
Jun-17-2015	1.70	0.21	1	0.12	0.05
Jun-29-2015	1.80	0.33	1	0.14	0.08
Jul-15-2015	7.3 U	< 0.050	1	0.14	0.16
Jul-27-2015	6.0 U	< 0.050	<0.20	0.24	0.11
Aug-11-2015	4.90	0.09	1	0.21	0.10
Sep-28-2015	4.40	0.09			
Oct-26-2015	0.67	0.056 T			
Nov-23-2015	0.71	0.06			
Dec-29-2015	1.3 T	0.10			

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

**Table 12. Summary of fathead minnow (*Pimephales promelas*) larvae survival**

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
<b>DATA SOURCE</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>
<b>UNITS</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>
March-15	100.0	92.5	92.5	95.0	100.0	97.5
June-15	0.0	57.5	77.5	97.5	90.0	97.5

**Table 13. Summary of fathead minnow (*Pimephales promelas*) larvae growth in 7-day tests**

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
<b>DATA SOURCE</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>
<b>UNITS</b>	<b>mg</b>	<b>mg</b>	<b>mg</b>	<b>mg</b>	<b>mg</b>	<b>mg</b>
March-15	0.54	0.53	0.51	0.46	0.49	0.53
June-15	0.00	0.36	0.45	0.52	0.46	0.53

**Table 14. Summary of *Daphnia magna* survival in 7-day tests**

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
<b>DATA SOURCE</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>	<b>SLDMWA</b>
<b>UNITS</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>
March-15	70%	80%	100%	90%	90%	90%
June-15	80%	50%	80%	90%	100%	70%

**Table 15. Summary of Daphnia magna reproduction in 7-day tests**

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	neonates per female					
March-15	34.10	37.40	46.10	43.20	48.10	41.80
June-15	8.50	39.40	33.10	46.80	32.20	26.20

**Table 16. Summary of Selenastrum capricornutum growth in 4-day tests**

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	10 <sup>6</sup> cells/mL	10 <sup>6</sup> cells/mL	10 <sup>6</sup> cells/mL	10 <sup>6</sup> cells/mL	10 <sup>6</sup> cells/mL	10 <sup>6</sup> cells/mL
March-15	3.24	6.48	4.55	5.29	6.76	1.36
June-15	3.63	4.37	5.31	1.58	4.42	1.83



**Table 17. Summary of selenium concentrations in grab water samples collected at study stations for use in laboratory toxicity tests**

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal
DATA SOURCE	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR
UNITS	µg/L	µg/L	µg/L	µg/L	µg/L
30-Mar-15	32.7	<0.4	3.82	<0.8	<0.4
1-Apr-15	29.8	<0.4	2.20	<0.8	0.44
3-Apr-15	27.6	<0.4	0.98	<0.8	<0.4
8-Jun-15	6.5	<0.4	<0.8	<0.4	<0.4
10-Jun-15	7.0	<0.4	<0.8	<0.4	<0.4
12-Jun-15	7.0	<0.4	<0.8	<0.4	<0.4

**Table 18. Summary of total suspended solids concentrations in grab water samples collected at study stations for use in laboratory toxicity tests**

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
30-Mar-15	40	57	64	27	<5.0
1-Apr-15	39	41	57	25	8
3-Apr-15	38	53	44	28	6
8-Jun-15	120	12	24	45	6
10-Jun-15	140	33	28	37	<5.0
12-Jun-15	110	12	27	27	<5.0

**Table 19. New WDR Summary of fathead minnow (*Pimephales promelas*) larvae survival**

LOCATION	Station B3	Station D	Station F	Station R	Conductivity Control	Lab Water Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
September-15	0%	100%	100%	NA	0%	100%
October-15	NA	100%	NA	100%	NA	100%
November-15	70%	100%	100%	95%	100%	100%
December-15	NA	100%	NA	NA	100%	100%

**Table 20. New WDR Summary of Daphnia magna survival in 7-day tests**

LOCATION	Station B3	Station D	Station F	Station R	Conductivity Control	Lab Water Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
September-15	0%	100%	100%	NA	0%	100%
October-15	NA	95%	NA	90%	NA	90%
November-15	100%	100%	100%	100%	100%	100%
December-15	NA	95%	NA	NA	85%	95%

**Table 21. New WDR Summary of Selenastrum capricornutum growth in 4-day tests**

LOCATION	Station B3	Station D	Station F	Station R	Conductivity Control	Lab Water Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	mg	mg	mg	mg	mg	mg
September-15	0.73	5.87	6.20	NA	0.14	3.64
October-15	NA	7.61	NA	5.90	NA	3.07
November-15	2.85	4.98	5.37	5.52	1.76	1.66
December-15	NA	2.00	NA	NA	2.29	1.44

Table 22. Explanations of footnotes and agency abbreviations.

<b>Agency</b>	
CVRWQCB	California Regional Water Quality Control Board, Central Valley Region
SLDMWA	San Luis & Delta-Mendota Water Authority
USBR	U.S. Bureau of Reclamation
USGS	U.S. Geological Survey
<b>Water Quality Monitoring</b>	
NA	Not applicable
<	Less than MDL
D	Sample was dechlorinated
H	Result may have high bias
J	Result is between the MDL and RL
L	Result may have low bias,
MDL	Minimum detection level
	Not analyzed,not required, equipment error, data will not be available in the future
P	Pending, data not available at this time but will be available in the future
T	Result obtained past the holding time
U	Result determined to be an outlier at the time of data validation
V	Result may vary excessively from the true value
UA3	Use Agreement for Continued Use of the San Luis Drain January 2010 - December 2019
<b>Toxicity</b>	
*	Significantly reduced from Delta Mendota Canal (p<0.05)
**	Sample re-analyzed and result confirmed.
L	Result may be biased low. Sample was not preserved in the field
†	DMC water failed to meet the survival (>80%) acceptability criteria.
†††	DMC water failed to meet the reproduction (>10 neonates/adult) acceptability criteria.
††††	DMC water failed to meet minimum growth (106cell/mL) acceptability criteria.
‡	Control value exceeds suggested maximum variance (20%) acceptability criteria.
‡‡	Fungal growth observed on test organisms.
‡‡‡	Failed cell density requirement of 1E6 cells.
#	New testing laboratory with reporting limit of 0.4 µg/L as of June 1998.
v	Based on definitive bioassay, NOEC is 50 percent