

GRASSLAND BYPASS PROJECT MONTHLY DATA REPORT



2017

A Cooperative Effort By:

United States Bureau of Reclamation
Central 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

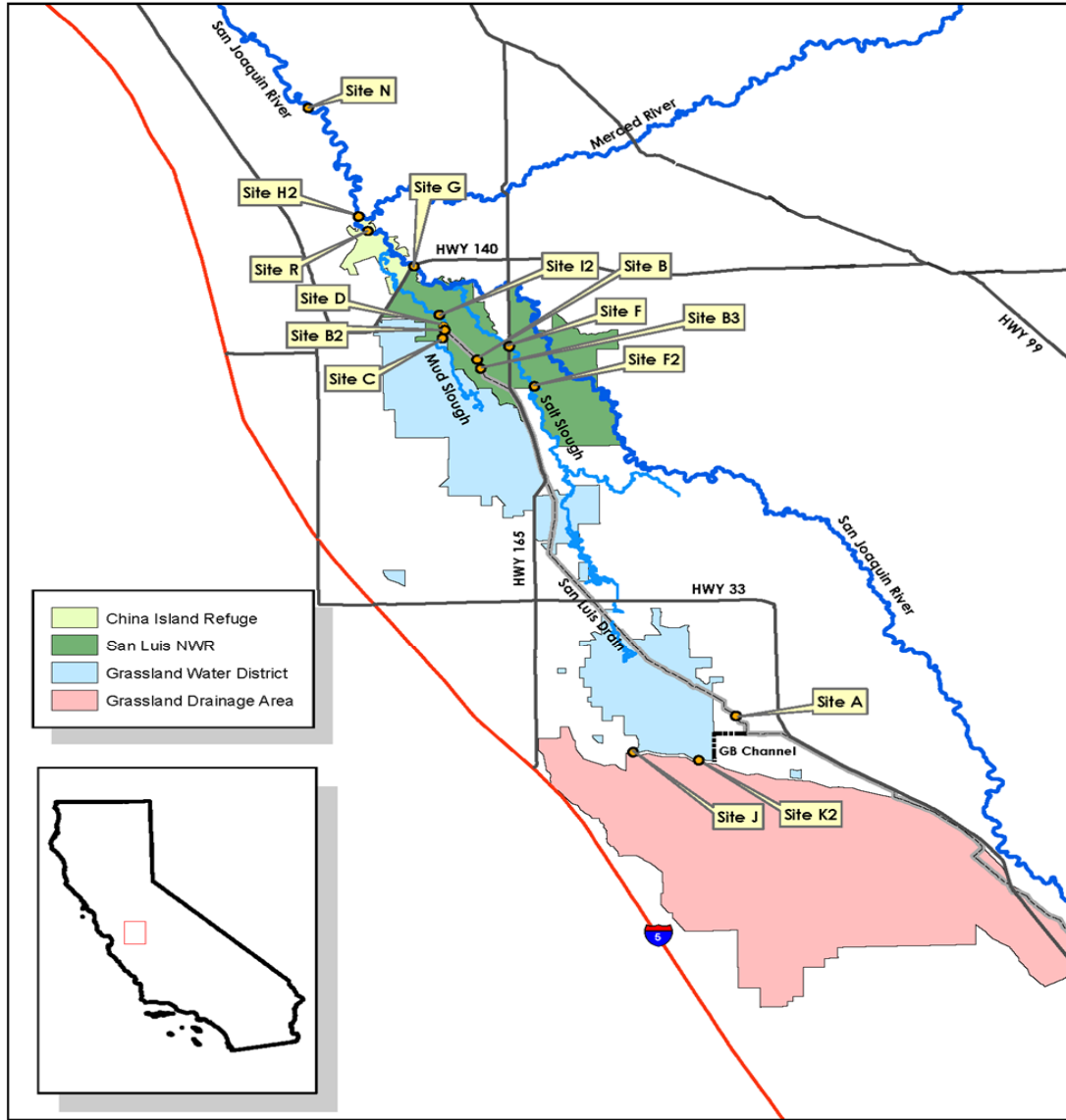
GRASSLAND BYPASS PROJECT MONTHLY DATA REPORT

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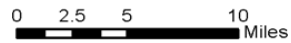
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Figure 1: Map of the Grassland Bypass Project area and sampling locations



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	Total Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Daily Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Calculated	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	microm	microm	tons
Jan-01-2017	0.0	0.0						0.0
Jan-02-2017	0.0	0.0						0.0
Jan-03-2017	21.7	43.0	0.0187				7,460.0	322.7
Jan-04-2017	34.1	67.6	0.0187	13.9	7,460.0		7,460.0	507.1
Jan-05-2017	28.4	56.3	0.0183				7,460.0	422.7
Jan-06-2017	19.9	39.4	0.0183				7,460.0	295.9
Jan-07-2017	35.6	70.5	0.0183				7,460.0	529.3
Jan-08-2017	66.0	131.0	0.0183				7,460.0	982.4
Jan-09-2017	99.3	196.9	0.0183				7,460.0	1477.1
Jan-10-2017	71.3	141.5	0.0183				7,460.0	1061.4
Jan-11-2017	67.5	133.9	0.0183	13.9	7,460.0		7,460.0	1004.8
Jan-12-2017	63.4	125.8	0.0418				8,200.0	1037.5
Jan-13-2017	58.6	116.3	0.0418				8,200.0	959.0
Jan-14-2017	35.5	70.4	0.0418				8,200.0	580.5
Jan-15-2017	30.0	59.6	0.0418				8,200.0	491.3
Jan-16-2017	29.8	59.1	0.0418				8,200.0	487.4
Jan-17-2017	29.1	57.6	0.0418				8,200.0	475.2
Jan-18-2017	30.6	60.6	0.0418	15.6	8,200.0	6,440.0	8,200.0	500.1
Jan-19-2017	82.1	162.9	0.0272				7,450.0	1220.2
Jan-20-2017	88.6	175.8	0.0272				7,450.0	1316.8
Jan-21-2017	104.0	206.4	0.0272				7,450.0	1546.2
Jan-22-2017	43.4	86.2	0.0272				7,450.0	645.7
Jan-23-2017	50.9	100.9	0.0272				7,450.0	755.7
Jan-24-2017	44.0	87.4	0.0272				7,450.0	654.5
Jan-25-2017	45.7	90.6	0.0272	13.7	7,450.0	6,080.0	7,450.0	678.9
Jan-26-2017	51.9	103.0	0.0568				7,200.0	745.8
Jan-27-2017	50.6	100.5	0.0568				7,200.0	727.4
Jan-28-2017	49.7	98.6	0.0568				7,200.0	713.7
Jan-29-2017	47.8	94.7	0.0568				7,200.0	686.0
Jan-30-2017	44.8	88.9	0.0568				7,200.0	643.4
Jan-31-2017	45.9	91.0	0.0568				7,200.0	659.2
Feb-01-2017	42.7	84.6	0.0568	11.2	7,200.0	6,940.0	7,200.0	612.8
Feb-02-2017	48.5	96.2	0.0295				7,130.0	689.8
Feb-03-2017	38.5	76.4	0.0295				7,130.0	547.5
Feb-04-2017	36.3	71.9	0.0295				7,130.0	515.8
Feb-05-2017	33.7	66.9	0.0295				7,130.0	480.0
Feb-06-2017	32.7	64.8	0.0295				7,130.0	464.5
Feb-07-2017	35.3	70.0	0.0295				7,130.0	501.8
Feb-08-2017	35.6	70.7	0.0295	13.0	7,130.0	6,900.0	7,130.0	506.7
Feb-09-2017	36.1	71.6	0.0480				5,450.0	392.5
Feb-10-2017	84.2	167.0	0.0480				5,450.0	915.5
Feb-11-2017	113.8	225.8	0.0480				5,450.0	1237.4
Feb-12-2017	134.1	266.1	0.0480				5,450.0	1458.3
Feb-13-2017	73.8	146.4	0.0480				5,450.0	802.3
Feb-14-2017	58.4	115.8	0.0480				5,450.0	634.9
Feb-15-2017	72.5	143.9	0.0480	9.0	5,450.0	5,280.0	5,450.0	788.5
Feb-16-2017	80.2	159.1	0.0540				5,660.0	905.7
Feb-17-2017	87.9	174.4	0.0540				5,660.0	992.4
Feb-18-2017	95.6	189.7	0.0540				5,660.0	1079.5
Feb-19-2017	80.4	159.5	0.0540				5,660.0	908.2
Feb-20-2017	94.9	188.3	0.0540				5,660.0	1071.9
Feb-21-2017	109.6	217.4	0.0540				5,660.0	1237.4
Feb-22-2017	82.5	163.6	0.0540	9.0	5,660.0	4,890.0	5,660.0	931.3
Feb-23-2017	78.4	155.5	0.0372				6,730.0	1052.5
Feb-24-2017	77.3	153.4	0.0372				6,730.0	1038.1
Feb-25-2017	77.1	153.0	0.0372				6,730.0	1035.6
Feb-26-2017	75.1	148.9	0.0372				6,730.0	1008.0
Feb-27-2017	67.9	134.7	0.0372				6,730.0	911.7
Feb-28-2017	61.8	122.6	0.0372				6,730.0	829.7
Mar-01-2017	62.9	124.8	0.0372	11.8	6,730.0	5,032.0	6,730.0	844.8
Mar-02-2017	67.7	134.3	0.0530				5,240.0	707.8
Mar-03-2017	69.2	137.3	0.0530				5,240.0	723.6
Mar-04-2017	64.5	127.9	0.0530				5,240.0	674.1
Mar-05-2017	65.4	129.7	0.0530				5,240.0	683.7
Mar-06-2017	42.9	85.1	0.0530				5,240.0	448.2
Mar-07-2017	19.4	38.4	0.0530				5,240.0	202.4
Mar-08-2017	5.7	11.2	0.0530	8.4	555.0	5,240.0	5,240.0	59.3
Mar-09-2017	12.3	24.4	0.0530				6,800.0	166.7
Mar-10-2017	15.5	30.7	0.0530				6,800.0	209.8
Mar-11-2017	16.9	33.5	0.0530				6,800.0	229.2
Mar-12-2017	8.6	17.0	0.0530				6,800.0	116.3
Mar-13-2017	4.1	8.1	0.0530				6,800.0	55.5
Mar-14-2017	14.7	29.2	0.0530				6,800.0	199.9
Mar-15-2017	14.5	28.8	0.0530	10.4	6,800.0	7,030.0	6,800.0	197.2
Mar-16-2017	14.4	28.5	0.0363				6,740.0	193.4
Mar-17-2017	9.3	18.4	0.0363				6,740.0	124.5
Mar-18-2017	6.9	13.8	0.0363				6,740.0	93.3
Mar-19-2017	7.5	14.9	0.0363				6,740.0	101.1
Mar-20-2017	7.8	15.4	0.0363				6,740.0	104.2
Mar-21-2017	26.1	51.8	0.0363				6,740.0	351.1
Mar-22-2017	56.3	111.7	0.0363	11.6	6,740.0	7,900.0	6,740.0	756.9
Mar-23-2017	55.0	109.1	0.0600				6,660.0	730.6
Mar-24-2017	43.5	86.2	0.0600				6,660.0	577.4
Mar-25-2017	38.8	76.9	0.0600				6,660.0	514.9
Mar-26-2017	37.5	74.4	0.0600				6,660.0	498.2
Mar-27-2017	31.7	62.9	0.0600				6,660.0	421.4
Mar-28-2017	17.1	33.9	0.0600				6,660.0	227.2
Mar-29-2017	7.9	15.7	0.0600	9.6	6,660.0	6,260.0	6,660.0	105.1
Mar-30-2017	5.2	10.4	0.0461				6,660.0	69.7

PARAMETER	Flow	Discharge	Total Selenium	Total Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Daily Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Calculated	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	microm	microm	tons
Mar-31-2017	1.9	3.8	0.0461				6,660.0	25.8
Apr-01-2017	1.8	3.6	0.0461				6,660.0	24.4
Apr-02-2017	1.8	3.6	0.0461				6,660.0	24.3
Apr-03-2017	1.2	2.4	0.0461				6,660.0	16.4
Apr-04-2017	2.0	4.0	0.0461				6,660.0	26.7
Apr-05-2017	1.3	2.6	0.0321				7,350.0	18.9
Apr-06-2017	1.8	3.6	0.0321				7,350.0	26.6
Apr-07-2017	8.3	16.5	0.0321				7,350.0	121.8
Apr-08-2017	24.4	48.4	0.0321				7,350.0	357.6
Apr-09-2017	35.2	69.9	0.0321				7,350.0	516.8
Apr-10-2017	20.3	40.3	0.0321				7,350.0	297.7
Apr-11-2017	3.2	6.4	0.0321				7,350.0	47.3
Apr-12-2017	1.4	2.8	0.0321	12.9	7,350.0	7,000.0	7,350.0	20.9
Apr-13-2017	0.6	1.2	0.0298				7,860.0	9.4
Apr-14-2017	0.2	0.5	0.0298				7,860.0	3.7
Apr-15-2017	0.0	0.0	0.0298				7,860.0	0.3
Apr-16-2017	0.0	0.0						0.0
Apr-17-2017	0.0	0.0						0.0
Apr-18-2017	24.0	47.5	0.0298				7,860.0	375.7
Apr-19-2017	38.3	75.9	0.0298	14.4	7,860.0	7,070.0	7,860.0	599.8
Apr-20-2017	13.6	27.0	0.0196				7,550.0	204.9
Apr-21-2017	1.0	2.1	0.0196				7,550.0	15.7
Apr-22-2017	0.0	0.1	0.0196				7,550.0	0.5
Apr-23-2017	0.0	0.0						0.0
Apr-24-2017	0.0	0.0						0.0
Apr-25-2017	0.0	0.0						0.0
Apr-26-2017	0.0	0.0						0.0
Apr-27-2017	0.0	0.0						0.0
Apr-28-2017	0.0	0.0						0.0
Apr-29-2017	0.0	0.0						0.0
Apr-30-2017	0.0	0.0						0.0
May-01-2017	0.0	0.0						0.0
May-02-2017	0.0	0.0						0.0
May-03-2017	0.0	0.0						0.0
May-04-2017	0.0	0.0						0.0
May-05-2017	0.0	0.0						0.0
May-06-2017	0.0	0.0						0.0
May-07-2017	0.0	0.0						0.0
May-08-2017	0.0	0.0						0.0
May-09-2017	0.0	0.0						0.0
May-10-2017	0.1	0.3	0.0109	16.3	8,480.0	7,600.0	8,480.0	2.3
May-11-2017	0.0	0.0						0.0
May-12-2017	0.0	0.0						0.0
May-13-2017	0.0	0.0						0.0
May-14-2017	0.0	0.0						0.0
May-15-2017	0.0	0.0						0.0
May-16-2017	0.0	0.0						0.0
May-17-2017	0.0	0.0						0.0
May-18-2017	0.0	0.0						0.0
May-19-2017	0.0	0.0						0.0
May-20-2017	0.0	0.0						0.0
May-21-2017	0.0	0.0						0.0
May-22-2017	0.0	0.0						0.0
May-23-2017	0.0	0.0						0.0
May-24-2017	0.0	0.0						0.0
May-25-2017	0.0	0.0						0.0
May-26-2017	0.0	0.0						0.0
May-27-2017	0.0	0.0						0.0
May-28-2017	0.0	0.0						0.0
May-29-2017	0.0	0.0						0.0
May-30-2017	0.0	0.0						0.0
May-31-2017	0.0	0.0						0.0
Jun-01-2017	0.0	0.0						0.0
Jun-02-2017	0.0	0.0						0.0
Jun-03-2017	0.0	0.0						0.0
Jun-04-2017	0.0	0.0						0.0
Jun-05-2017	0.0	0.0						0.0
Jun-06-2017	0.0	0.0						0.0
Jun-07-2017	0.0	0.0						0.0
Jun-08-2017	0.0	0.0						0.0
Jun-09-2017	0.0	0.0						0.0
Jun-10-2017	0.0	0.0						0.0
Jun-11-2017	0.0	0.0						0.0
Jun-12-2017	0.0	0.0						0.0
Jun-13-2017	0.0	0.0						0.0
Jun-14-2017	0.0	0.0						0.0
Jun-15-2017	0.0	0.0						0.0
Jun-16-2017	0.0	0.0						0.0
Jun-17-2017	0.0	0.0						0.0
Jun-18-2017	0.0	0.0						0.0
Jun-19-2017	0.0	0.0						0.0
Jun-20-2017	0.0	0.0						0.0
Jun-21-2017	0.0	0.0						0.0
Jun-22-2017	0.0	0.0						0.0
Jun-23-2017	0.0	0.0						0.0
Jun-24-2017	0.0	0.0						0.0
Jun-25-2017	0.0	0.0						0.0
Jun-26-2017	0.0	0.0						0.0
Jun-27-2017	0.0	0.0						0.0
Jun-28-2017	0.0	0.0						0.0

PARAMETER	Flow	Discharge	Total Selenium	Total Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Daily Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Calculated	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	microm	microm	tons
Jun-29-2017	0.0	0.0						0.0
Jun-30-2017	0.0	0.0						0.0
Jul-01-2017	0.0	0.0						0.0
Jul-02-2017	0.0	0.0						0.0
Jul-03-2017	0.0	0.0						0.0
Jul-04-2017	0.0	0.0						0.0
Jul-05-2017	0.0	0.0						0.0
Jul-06-2017	0.0	0.0						0.0
Jul-07-2017	0.0	0.0						0.0
Jul-08-2017	0.0	0.0						0.0
Jul-09-2017	0.0	0.0						0.0
Jul-10-2017	0.0	0.0						0.0
Jul-11-2017	0.0	0.0						0.0
Jul-12-2017	0.0	0.0						0.0
Jul-13-2017	0.0	0.0						0.0
Jul-14-2017	0.0	0.0						0.0
Jul-15-2017	0.0	0.0						0.0
Jul-16-2017	0.0	0.0						0.0
Jul-17-2017	0.0	0.0						0.0
Jul-18-2017	0.0	0.0						0.0
Jul-19-2017	0.0	0.0						0.0
Jul-20-2017	0.0	0.0						0.0
Jul-21-2017	0.0	0.0						0.0
Jul-22-2017	0.0	0.0						0.0
Jul-23-2017	0.0	0.0						0.0
Jul-24-2017	0.0	0.0						0.0
Jul-25-2017	0.0	0.0						0.0
Jul-26-2017	0.0	0.0						0.0
Jul-27-2017	0.0	0.0						0.0
Jul-28-2017	0.0	0.0						0.0
Jul-29-2017	0.0	0.0						0.0
Jul-30-2017	0.0	0.0						0.0
Jul-31-2017	0.0	0.0						0.0
Aug-01-2017	0.0	0.0						0.0
Aug-02-2017	0.0	0.0						0.0
Aug-03-2017	0.0	0.0						0.0
Aug-04-2017	0.0	0.0						0.0
Aug-05-2017	0.0	0.0						0.0
Aug-06-2017	0.0	0.0						0.0
Aug-07-2017	0.0	0.0						0.0
Aug-08-2017	0.0	0.0						0.0
Aug-09-2017	0.0	0.0						0.0
Aug-10-2017	0.0	0.0						0.0
Aug-11-2017	0.0	0.0						0.0
Aug-12-2017	0.0	0.0						0.0
Aug-13-2017	0.0	0.0						0.0
Aug-14-2017	0.0	0.0						0.0
Aug-15-2017	0.0	0.0						0.0
Aug-16-2017	0.0	0.0						0.0
Aug-17-2017	0.0	0.0						0.0
Aug-18-2017	0.0	0.0						0.0
Aug-19-2017	0.0	0.0						0.0
Aug-20-2017	0.0	0.0						0.0
Aug-21-2017	0.0	0.0						0.0
Aug-22-2017	0.0	0.0						0.0
Aug-23-2017	0.0	0.0						0.0
Aug-24-2017	0.0	0.0						0.0
Aug-25-2017	0.0	0.0						0.0
Aug-26-2017	0.0	0.0						0.0
Aug-27-2017	0.0	0.0						0.0
Aug-28-2017	0.0	0.0						0.0
Aug-29-2017	0.0	0.0						0.0
Aug-30-2017	0.0	0.0						0.0
Aug-31-2017	0.0	0.0						0.0
Sep-01-2017	0.0	0.0						0.0
Sep-02-2017	0.0	0.0						0.0
Sep-03-2017	0.0	0.0						0.0
Sep-04-2017	0.0	0.0						0.0
Sep-05-2017	0.0	0.0						0.0
Sep-06-2017	0.0	0.0						0.0
Sep-07-2017	0.0	0.0						0.0
Sep-08-2017	0.0	0.0						0.0
Sep-09-2017	0.0	0.0						0.0
Sep-10-2017	0.0	0.0						0.0
Sep-11-2017	0.0	0.0						0.0
Sep-12-2017	0.0	0.0						0.0
Sep-13-2017	0.0	0.0						0.0
Sep-14-2017	0.0	0.0						0.0
Sep-15-2017	0.0	0.0						0.0
Sep-16-2017	0.0	0.0						0.0
Sep-17-2017	0.0	0.0						0.0
Sep-18-2017	0.0	0.0						0.0
Sep-19-2017	0.0	0.0						0.0
Sep-20-2017	0.0	0.0						0.0
Sep-21-2017	0.0	0.0						0.0
Sep-22-2017	0.0	0.0						0.0
Sep-23-2017	0.0	0.0						0.0
Sep-24-2017	0.0	0.0						0.0
Sep-25-2017	0.0	0.0						0.0
Sep-26-2017	0.0	0.0						0.0

PARAMETER	Flow	Discharge	Total Selenium	Total Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Daily Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Calculated	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	microm	microm	tons
Sep-27-2017	0.0	0.0						0.0
Sep-28-2017	0.0	0.0						0.0
Sep-29-2017	0.0	0.0						0.0
Sep-30-2017	0.0	0.0						0.0
Oct-01-2017	0.0	0.0						0.0
Oct-02-2017	0.0	0.0						0.0
Oct-03-2017	0.0	0.0						0.0
Oct-04-2017	0.0	0.0						0.0
Oct-05-2017	0.0	0.0						0.0
Oct-06-2017	0.0	0.0						0.0
Oct-07-2017	0.0	0.0						0.0
Oct-08-2017	0.0	0.0						0.0
Oct-09-2017	0.0	0.0						0.0
Oct-10-2017	0.0	0.0						0.0
Oct-11-2017	0.0	0.0						0.0
Oct-12-2017	0.0	0.0						0.0
Oct-13-2017	0.0	0.0						0.0
Oct-14-2017	0.0	0.0						0.0
Oct-15-2017	0.0	0.0						0.0
Oct-16-2017	0.0	0.0						0.0
Oct-17-2017	0.0	0.0						0.0
Oct-18-2017	0.0	0.0						0.0
Oct-19-2017	0.0	0.0						0.0
Oct-20-2017	0.0	0.0						0.0
Oct-21-2017	0.0	0.0						0.0
Oct-22-2017	0.0	0.0						0.0
Oct-23-2017	0.0	0.0						0.0
Oct-24-2017	0.0	0.0						0.0
Oct-25-2017	0.0	0.0						0.0
Oct-26-2017	0.0	0.0						0.0
Oct-27-2017	0.0	0.0						0.0
Oct-28-2017	0.0	0.0						0.0
Oct-29-2017	0.0	0.0						0.0
Oct-30-2017	0.0	0.0						0.0
Oct-31-2017	0.0	0.0						0.0
Nov-01-2017	0.0	0.0						0.0
Nov-02-2017	0.0	0.0						0.0
Nov-03-2017	0.0	0.0						0.0
Nov-04-2017	0.0	0.0						0.0
Nov-05-2017	0.0	0.0						0.0
Nov-06-2017	0.0	0.0						0.0
Nov-07-2017	0.0	0.0						0.0
Nov-08-2017	0.0	0.0						0.0
Nov-09-2017	0.0	0.0						0.0
Nov-10-2017	0.0	0.0						0.0
Nov-11-2017	0.0	0.0						0.0
Nov-12-2017	0.0	0.0						0.0
Nov-13-2017	0.0	0.0						0.0
Nov-14-2017	0.0	0.0						0.0
Nov-15-2017	0.0	0.0						0.0
Nov-16-2017	0.0	0.0						0.0
Nov-17-2017	0.0	0.0						0.0
Nov-18-2017	0.0	0.0						0.0
Nov-19-2017	0.0	0.0						0.0
Nov-20-2017	0.0	0.0						0.0
Nov-21-2017	0.0	0.0						0.0
Nov-22-2017	0.0	0.0						0.0
Nov-23-2017	0.0	0.0						0.0
Nov-24-2017	0.0	0.0						0.0
Nov-25-2017	0.0	0.0						0.0
Nov-26-2017	0.0	0.0						0.0
Nov-27-2017	0.0	0.0						0.0
Nov-28-2017	0.0	0.0						0.0
Nov-29-2017	0.0	0.0						0.0
Nov-30-2017	0.0	0.0						0.0
Dec-01-2017	0.0	0.0						0.0
Dec-02-2017	0.0	0.0						0.0
Dec-03-2017	0.0	0.0						0.0
Dec-04-2017	0.0	0.0						0.0
Dec-05-2017	0.0	0.0						0.0
Dec-06-2017	0.0	0.0						0.0
Dec-07-2017	0.0	0.0						0.0
Dec-08-2017	0.0	0.0						0.0
Dec-09-2017	0.0	0.0						0.0
Dec-10-2017	0.0	0.0						0.0
Dec-11-2017	0.0	0.0						0.0
Dec-12-2017	0.0	0.0						0.0
Dec-13-2017	0.0	0.0						0.0
Dec-14-2017	0.0	0.0						0.0
Dec-15-2017	0.0	0.0						0.0
Dec-16-2017	0.0	0.0						0.0
Dec-17-2017	0.0	0.0						0.0
Dec-18-2017	0.0	0.0						0.0
Dec-19-2017	0.0	0.0						0.0
Dec-20-2017	0.0	0.0						0.0
Dec-21-2017	0.0	0.0						0.0
Dec-22-2017	0.0	0.0						0.0
Dec-23-2017	0.0	0.0						0.0
Dec-24-2017	0.0	0.0						0.0
Dec-25-2017	0.0	0.0						0.0

PARAMETER	Flow	Discharge	Total Selenium	Total Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Daily Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Calculated	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	microm	microm	tons
Dec-26-2017	0.0	0.0						0.0
Dec-27-2017	0.0	0.0						0.0
Dec-28-2017	0.0	0.0						0.0
Dec-29-2017	0.0	0.0						0.0
Dec-30-2017	0.0	0.0						0.0
Dec-31-2017	0.0	0.0						0.0

NOTES:

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 (Wet 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-17	47.4	2,916.3	0.0341	14.3	7,643	6,260	7,582	22,128	5,893
Feb-17	69.5	3,858.2	0.0429	10.5	6,360	6,003	6,259	23,550	9,327
Mar-17	27.5	1,688.4	0.0499	10.3	5,497	6,292	6,391	10,413	11,049
Apr-17	6.0	358.4	0.0324	13.7	7,605	7,035	7,370	2,709	8,132
May-17	0.0	0.3	0.0109	16.3	8,480	7,600	8,480	2.3	7,969
Jun-17	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	8,243
Jul-17	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	8,330
Aug-17	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	7,392
Sep-17	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	3,905
Oct-17	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	2,999
Nov-17	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	3,117
Dec-17	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	3,442
Calendar Year Totals/Avg:		8,821	0.034	13.0	7,117	6,638	7,216	58,803	79,798

NOTES: * Flow-weighted concentrations

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 (B2)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	mg/L	microm	lbs
Jan-01-2017	6.4	12.7	0.0315	11.0	6,920.0	0.0315	6,920	1.1
Jan-02-2017	6.3	12.5	0.0343	11.0	6,920.0	0.0343	6,920	1.2
Jan-03-2017	6.5	12.9	0.0343	11.0	6,920.0	0.0343	6,920	1.2
Jan-04-2017	16.1	31.9	0.0275	12.2	6,920.0	0.0275	6,920	2.4
Jan-05-2017	37.5	74.3	0.0168	9.9	5,730.0	0.0168	5,730	3.4
Jan-06-2017	33.3	66.1	0.0056	4.6	3,200.0	0.0056	3,200	1.0
Jan-07-2017	27.8	55.1	0.0189	17.6	9,280.0	0.0189	9,280	2.8
Jan-08-2017	35.0	69.5	0.0248	13.7	7,530.0	0.0248	7,530	4.7
Jan-09-2017	55.5	110.0	0.0262	12.4	7,170.0	0.0262	7,170	7.8
Jan-10-2017	84.4	167.5	0.0281	12.6	7,110.0	0.0281	7,110	12.8
Jan-11-2017	66.6	132.2	0.0229	11.7	6,360.0	0.0229	6,360	8.2
Jan-12-2017	60.7	120.4	0.0231	10.6	5,740.0	0.0231	5,740	7.6
Jan-13-2017	58.8	116.7	0.0225	11.4	6,160.0	0.0225	6,160	7.1
Jan-14-2017	53.3	105.7	0.0220	11.6	6,250.0	0.0220	6,250	6.3
Jan-15-2017	30.6	60.7	0.0206	11.6	6,180.0	0.0206	6,180	3.4
Jan-16-2017	24.8	49.2	0.0225	10.8	5,710.0	0.0225	5,710	3.0
Jan-17-2017	24.5	48.5	0.0228	11.4	6,160.0	0.0228	6,160	3.0
Jan-18-2017	26.8	53.2	0.0216	12.1	6,430.0	0.0216	6,430	3.1
Jan-19-2017	29.6	58.7	0.0241	12.2	6,580.0	0.0241	6,580	3.8
Jan-20-2017	71.4	141.5	0.0298	12.1	6,570.0	0.0298	6,570	11.5
Jan-21-2017	75.3	149.4	0.0314	11.3	6,050.0	0.0314	6,050	12.8
Jan-22-2017	69.0	136.9	0.0254	9.8	5,460.0	0.0254	5,460	9.4
Jan-23-2017	63.0	125.0	0.0239	8.5	4,570.0	0.0239	4,570	8.1
Jan-24-2017	57.0	113.1	0.0271	10.2	5,640.0	0.0271	5,640	8.3
Jan-25-2017	50.7	100.5	0.0260	9.9	5,930.0	0.0260	5,930	7.1
Jan-26-2017	44.4	88.1	0.0271	9.4	5,620.0	0.0271	5,620	6.5
Jan-27-2017	49.3	97.7	0.0305	9.5	5,710.0	0.0305	5,710	8.1
Jan-28-2017	48.4	96.1	0.0321	10.3	6,110.0	0.0321	6,110	8.4
Jan-29-2017	47.6	94.5	0.0355	9.9	6,000.0	0.0355	6,000	9.1
Jan-30-2017	46.0	91.2	0.0385	10.1	6,340.0	0.0385	6,340	9.5
Jan-31-2017	43.2	85.6	0.0398	10.2	6,190.0	0.0398	6,190	9.3
Feb-01-2017	43.3	85.9	0.0448	11.2	6,750.0	0.0448	6,750	10.5
Feb-02-2017	44.0	87.3	0.0480	11.3	6,790.0	0.0480	6,790	11.4
Feb-03-2017	42.8	84.9	0.0524	11.1	6,750.0	0.0524	6,750	12.1
Feb-04-2017	41.7	82.8	0.0500	11.0	6,750.0	0.0500	6,750	11.2
Feb-05-2017	38.3	76.0	0.0487	10.9	6,490.0	0.0487	6,490	10.1
Feb-06-2017	36.1	71.6	0.0397	10.6	6,210.0	0.0397	6,210	7.7
Feb-07-2017	36.1	71.6	0.0471	11.3	6,660.0	0.0471	6,660	9.2
Feb-08-2017	36.0	71.5	0.0383	11.5	6,460.0	0.0383	6,460	7.4
Feb-09-2017	36.9	73.2	0.0364	11.3	6,340.0	0.0364	6,340	7.2
Feb-10-2017	39.1	77.6	0.0348	11.4	6,320.0	0.0348	6,320	7.3
Feb-11-2017	75.4	149.6	0.0486	11.1	6,340.0	0.0486	6,340	19.8
Feb-12-2017	103.1	204.5	0.0325	9.5	5,310.0	0.0325	5,310	18.1
Feb-13-2017	116.6	231.4	0.0318	7.9	4,420.0	0.0318	4,420	20.0
Feb-14-2017	78.9	156.5	0.0360	9.9	5,540.0	0.0360	5,540	15.3
Feb-15-2017	56.4	111.8	0.0547	9.2	5,710.0	0.0547	5,710	16.6
Feb-16-2017	63.4	125.8	0.0580	9.5	6,010.0	0.0580	6,010	19.8
Feb-17-2017	56.3	111.6	0.0566	9.5	5,940.0	0.0566	5,940	17.2
Feb-18-2017	45.8	90.7	0.0594	9.6	6,030.0	0.0594	6,030	14.7
Feb-19-2017	50.1	99.4	0.0602	9.7	6,010.0	0.0602	6,010	16.3
Feb-20-2017	44.1	87.6	0.0562	9.2	5,740.0	0.0562	5,740	13.4
Feb-21-2017	49.8	98.7	0.0589	9.4	5,980.0	0.0589	5,980	15.8
Feb-22-2017	56.9	112.9	0.0511	8.7	5,460.0	0.0511	5,460	15.7
Feb-23-2017	42.5	84.3	0.0440	8.4	5,120.0	0.0440	5,120	10.1
Feb-24-2017	38.6	76.6	0.0482	8.9	5,490.0	0.0482	5,490	10.0
Feb-25-2017	37.7	74.8	0.0557	9.5	6,000.0	0.0557	6,000	11.3
Feb-26-2017	37.4	74.1	0.0591	9.9	6,230.0	0.0591	6,230	11.9
Feb-27-2017	50.6	100.4	0.0594	9.6	6,110.0	0.0594	6,110	16.2
Feb-28-2017	56.7	112.4	0.0536	9.0	5,650.0	0.0536	5,650	16.4
Mar-01-2017	52.1	103.4	0.0610	10.0	6,240.0	0.0610	6,240	17.1
Mar-02-2017	52.4	104.0	0.0628	10.1	6,260.0	0.0628	6,260	17.7
Mar-03-2017	55.7	110.5	0.0738	9.9	6,130.0	0.0738	6,130	22.2
Mar-04-2017	56.7	112.4	0.0642	9.3	5,830.0	0.0642	5,830	19.6
Mar-05-2017	53.4	105.9	0.0648	8.7	5,540.0	0.0648	5,540	18.7
Mar-06-2017	53.3	105.8	0.0513	8.6	5,420.0	0.0513	5,420	14.7
Mar-07-2017	39.0	77.4	0.0549	9.8	5,980.0	0.0549	5,980	11.5
Mar-08-2017	23.6	46.7	0.0536	8.9	5,500.0	0.0536	5,500	6.8
Mar-09-2017	14.0	27.7	0.0686	8.6	5,440.0	0.0686	5,440	5.2
Mar-10-2017	13.4	26.5	0.0680	8.5	5,450.0	0.0680	5,450	4.9
Mar-11-2017	16.3	32.3	0.0617	8.3	5,310.0	0.0617	5,310	5.4
Mar-12-2017	17.8	35.3	0.0579	7.8	5,050.0	0.0579	5,050	5.6
Mar-13-2017	16.0	31.7	0.0524	7.2	4,760.0	0.0524	4,760	4.5
Mar-14-2017	11.6	23.0	0.0516	7.5	4,950.0	0.0516	4,950	3.2
Mar-15-2017	12.7	25.2	0.0146	4.4	3,180.0	0.0146	3,180	1.0
Mar-16-2017	15.9	31.5	0.0206	5.0	3,560.0	0.0206	3,560	1.8
Mar-17-2017	14.2	28.2	0.0259	7.2	4,660.0	0.0259	4,660	2.0
Mar-18-2017	13.6	26.9	0.0218	9.0	5,560.0	0.0218	5,560	1.6
Mar-19-2017	11.0	21.9	0.0173	8.4	5,240.0	0.0173	5,240	1.0
Mar-20-2017	9.2	18.2	0.0114	6.1	4,070.0	0.0114	4,070	0.6
Mar-21-2017	10.7	21.2	0.0143	4.8	3,350.0	0.0143	3,350	0.8
Mar-22-2017	22.1	43.8	0.0143	7.6	4,920.0	0.0143	4,920	1.7
Mar-23-2017	52.2	103.6	0.0184	6.1	4,430.0	0.0184	4,430	5.2
Mar-24-2017	50.2	99.6	0.0186	10.0	6,460.0	0.0186	6,460	5.0
Mar-25-2017	40.5	80.3	0.0345	10.3	6,800.0	0.0345	6,800	7.5
Mar-26-2017	42.2	83.8	0.0370	10.1	6,560.0	0.0370	6,560	8.4
Mar-27-2017	42.1	83.5	0.0310	9.5	6,470.0	0.0310	6,470	7.0
Mar-28-2017	39.3	77.9	0.0251	8.5	5,870.0	0.0251	5,870	5.3
Mar-29-2017	31.2	61.8	0.0350	11.1	6,430.0	0.0350	6,430	5.9

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B2)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	mg/L	microm	lbs
Mar-30-2017	13.8	27.3	0.0337	10.8	6,410.0	0.0337	6,410	2.5
Mar-31-2017	10.9	21.7	0.0326	11.2	6,430.0	0.0326	6,430	1.9
Apr-01-2017	9.8	19.5	0.0336	10.7	6,310.0	0.0336	6,310	1.8
Apr-02-2017	8.1	16.1	0.0337	10.6	6,310.0	0.0337	6,310	1.5
Apr-03-2017	6.5	12.9	0.0331	10.5	6,330.0	0.0331	6,330	1.2
Apr-04-2017	6.3	12.5	0.0333	10.9	6,400.0	0.0333	6,400	1.1
Apr-05-2017	6.2	12.3	0.0284	9.8	5,970.0	0.0284	5,970	0.9
Apr-06-2017	6.0	11.8	0.0274	9.4	5,780.0	0.0274	5,780	0.9
Apr-07-2017	5.9	11.7	0.0271	9.2	5,700.0	0.0271	5,700	0.9
Apr-08-2017	6.2	12.3	0.0270	9.1	5,720.0	0.0270	5,720	0.9
Apr-09-2017	15.9	31.6	0.0255	8.5	5,420.0	0.0255	5,420	2.2
Apr-10-2017	31.5	62.6	0.0180	5.6	3,890.0	0.0180	3,890	3.1
Apr-11-2017	24.4	48.4	0.0185	7.0	4,550.0	0.0185	4,550	2.4
Apr-12-2017	9.4	18.7	0.0126	7.6	4,730.0	0.0126	4,730	0.6
Apr-13-2017	5.9	11.7	0.0111	11.3	6,660.0	0.0111	6,660	0.4
Apr-14-2017	4.3	8.5	0.0128	13.4	7,730.0	0.0128	7,730	0.3
Apr-15-2017	4.3	8.6	0.0130	14.5	8,050.0	0.0130	8,050	0.3
Apr-16-2017	4.6	9.0	0.0166	14.7	7,960.0	0.0166	7,960	0.4
Apr-17-2017	4.4	8.7	0.0212	13.9	7,510.0	0.0212	7,510	0.5
Apr-18-2017	5.2	10.3	0.0180	13.1	7,350.0	0.0180	7,350	0.5
Apr-19-2017	14.9	29.6	0.0246	10.1	6,300.0	0.0246	6,300	2.0
Apr-20-2017	36.8	73.0	0.0195	8.2	5,330.0	0.0195	5,330	3.9
Apr-21-2017	19.0	37.7	0.0051	4.2	3,010.0	0.0051	3,010	0.5
Apr-22-2017	7.6	15.0	0.0086	5.8	3,950.0	0.0086	3,950	0.4
Apr-23-2017	5.2	10.3	0.0102	7.5	4,790.0	0.0102	4,790	0.3
Apr-24-2017	3.7	7.4	0.0165	9.8	5,930.0	0.0165	5,930	0.3
Apr-25-2017	2.9	5.8	0.0167	9.8	5,930.0	0.0167	5,930	0.3
Apr-26-2017	2.8	5.6	0.0107	12.6	9,510.0	0.0107	9,510	0.2
Apr-27-2017	2.2	4.4	0.0106	13.5	6,740.0	0.0106	6,740	0.1
Apr-28-2017	1.0	2.1	0.0105	14.2	7,070.0	0.0105	7,070	0.1
Apr-29-2017	2.0	3.9	0.0106	14.7	7,270.0	0.0106	7,270	0.1
Apr-30-2017	2.1	4.1	0.0104	15.0	7,430.0	0.0104	7,430	0.1
May-01-2017	2.1	4.2	0.0102	15.4	7,610.0	0.0102	7,610	0.1
May-02-2017	2.2	4.3	0.0108	14.7	7,170.0	0.0108	7,170	0.1
May-03-2017	2.3	4.6	0.0106	16.5	8,380.0	0.0106	8,380	0.1
May-04-2017	2.4	4.7	0.0111	16.1	8,290.0	0.0111	8,290	0.1
May-05-2017	2.2	4.4	0.0109	16.0	8,290.0	0.0109	8,290	0.1
May-06-2017	2.3	4.5	0.0109	16.6	8,570.0	0.0109	8,570	0.1
May-07-2017	2.3	4.7	0.0110	17.2	8,700.0	0.0110	8,700	0.1
May-08-2017	2.9	5.7	0.0111	17.6	8,870.0	0.0111	8,870	0.2
May-09-2017	3.1	6.1	0.0113	17.2	8,720.0	0.0113	8,720	0.2
May-10-2017	3.0	5.9	0.0114	18.5	9,330.0	0.0114	9,330	0.2
May-11-2017	6.4	12.6	0.0113	17.6	9,000.0	0.0113	9,000	0.4
May-12-2017	7.7	15.3	0.0110	14.8	7,760.0	0.0110	7,760	0.5
May-13-2017	5.7	11.3	0.0107	13.6	7,170.0	0.0107	7,170	0.3
May-14-2017	5.0	10.0	0.0104	12.9	6,860.0	0.0104	6,860	0.3
May-15-2017	4.3	8.5	0.0108	13.1	6,810.0	0.0108	6,810	0.2
May-16-2017	3.8	7.6	0.0113	15.9	8,110.0	0.0113	8,110	0.2
May-17-2017	3.6	7.2	0.0115	13.6	7,230.0	0.0115	7,230	0.2
May-18-2017	3.8	7.6	0.0116	13.8	7,280.0	0.0116	7,280	0.2
May-19-2017	4.1	8.2	0.0114	13.8	7,280.0	0.0114	7,280	0.3
May-20-2017	4.2	8.3	0.0108	13.1	6,980.0	0.0108	6,980	0.2
May-21-2017	4.3	8.6	0.0095	11.6	6,220.0	0.0095	6,220	0.2
May-22-2017	4.2	8.3	0.0082	9.9	5,470.0	0.0082	5,470	0.2
May-23-2017	4.0	8.0	0.0083	9.9	5,360.0	0.0083	5,360	0.2
May-24-2017	3.8	7.5	0.0081	8.3	4,610.0	0.0081	4,610	0.2
May-25-2017	3.3	6.6	0.0073	7.4	4,140.0	0.0073	4,140	0.1
May-26-2017	3.1	6.1	0.0073	6.5	3,780.0	0.0073	3,780	0.1
May-27-2017	3.7	7.3	0.0068	5.8	3,480.0	0.0068	3,480	0.1
May-28-2017	3.7	7.4	0.0066	5.5	3,320.0	0.0066	3,320	0.1
May-29-2017	3.7	7.3	0.0060	5.1	3,160.0	0.0060	3,160	0.1
May-30-2017	3.8	7.5	0.0069	6.3	3,740.0	0.0069	3,740	0.1
May-31-2017	4.1	8.1	0.0058	4.8	3,270.0	0.0058	3,270	0.1
Jun-01-2017	4.1	8.1	0.0064	5.0	3,430.0	0.0064	3,430	0.1
Jun-02-2017	4.2	8.3	0.0055	5.1	3,460.0	0.0055	3,460	0.1
Jun-03-2017	4.3	8.6	0.0057	5.3	3,560.0	0.0057	3,560	0.1
Jun-04-2017	4.3	8.5	0.0055	5.3	3,510.0	0.0055	3,510	0.1
Jun-05-2017	4.4	8.6	0.0054	5.1	3,400.0	0.0054	3,400	0.1
Jun-06-2017	4.2	8.3	0.0056	5.0	3,400.0	0.0056	3,400	0.1
Jun-07-2017	4.1	8.2	0.0056	4.7	3,260.0	0.0056	3,260	0.1
Jun-08-2017	4.1	8.2	0.0052	4.2	2,990.0	0.0052	2,990	0.1
Jun-09-2017	4.1	8.2	0.0050	4.1	2,890.0	0.0050	2,890	0.1
Jun-10-2017	3.9	7.7	0.0047	3.9	2,790.0	0.0047	2,790	0.1
Jun-11-2017	4.0	8.0	0.0045	3.8	2,760.0	0.0045	2,760	0.1
Jun-12-2017	4.0	7.9	0.0048	3.6	2,710.0	0.0048	2,710	0.1
Jun-13-2017	3.7	7.4	0.0049	3.5	2,670.0	0.0049	2,670	0.1
Jun-14-2017	3.8	7.6	0.0045	3.9	2,720.0	0.0045	2,720	0.1
Jun-15-2017	15.9	31.5	0.0046	3.6	2,630.0	0.0046	2,630	0.4
Jun-16-2017	11.3	22.3	0.0041	2.8	2,390.0	0.0041	2,390	0.3
Jun-17-2017	3.8	7.6	0.0040	2.7	2,300.0	0.0040	2,300	0.1
Jun-18-2017	4.6	9.1	0.0040	2.5	2,260.0	0.0040	2,260	0.1
Jun-19-2017	4.6	9.0	0.0039	2.5	2,200.0	0.0039	2,200	0.1
Jun-20-2017	3.5	6.9	0.0039	2.4	2,190.0	0.0039	2,190	0.1
Jun-21-2017	1.8	3.6	0.0045	2.6	2,260.0	0.0045	2,260	0.0
Jun-22-2017	1.6	3.2	0.0041	2.5	2,250.0	0.0041	2,250	0.0
Jun-23-2017	1.3	2.6	0.0040	2.5	2,230.0	0.0040	2,230	0.0
Jun-24-2017	1.1	2.1	0.0040	2.5	2,210.0	0.0040	2,210	0.0
Jun-25-2017	1.0	2.0	0.0041	2.5	2,200.0	0.0041	2,200	0.0
Jun-26-2017	0.8	1.6	0.0042	2.5	2,210.0	0.0042	2,210	0.0
Jun-27-2017	0.4	0.7	0.0047	2.5	2,220.0	0.0047	2,220	0.0

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B2)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	mg/L	microm	lbs
Jun-28-2017	0.3	0.6	0.0054	2.8	2,350.0	0.0054	2,350	0.0
Jun-29-2017	0.4	0.7	0.0054	2.8	2,330.0	0.0054	2,330	0.0
Jun-30-2017	0.4	0.9	0.0053	2.9	2,320.0	0.0053	2,320	0.0
Jul-01-2017	0.4	0.7	0.0053	2.9	2,330.0	0.0053	2,330	0.0
Jul-02-2017	0.5	0.9	0.0054	2.8	2,310.0	0.0054	2,310	0.0
Jul-03-2017	0.4	0.8	0.0054	2.9	2,300.0	0.0054	2,300	0.0
Jul-04-2017	0.5	1.0	0.0053	3.0	2,320.0	0.0053	2,320	0.0
Jul-05-2017	0.2	0.4	0.0062	3.6	2,600.0	0.0062	2,600	0.0
Jul-06-2017	1.3	2.6	0.0060	3.7	2,670.0	0.0060	2,670	0.0
Jul-07-2017	2.2	4.3	0.0060	4.1	2,810.0	0.0060	2,810	0.1
Jul-08-2017	2.2	4.4	0.0055	4.4	2,950.0	0.0055	2,950	0.1
Jul-09-2017	2.2	4.3	0.0057	4.9	3,080.0	0.0057	3,080	0.1
Jul-10-2017	2.1	4.1	0.0055	5.0	3,150.0	0.0055	3,150	0.1
Jul-11-2017	2.2	4.4	0.0057	5.1	3,160.0	0.0057	3,160	0.1
Jul-12-2017	2.2	4.3	0.0059	5.5	3,400.0	0.0059	3,400	0.1
Jul-13-2017	2.1	4.1	0.0056	5.4	3,380.0	0.0056	3,380	0.1
Jul-14-2017	2.0	3.9	0.0051	5.5	3,380.0	0.0051	3,380	0.1
Jul-15-2017	1.9	3.7	0.0055	5.5	3,390.0	0.0055	3,390	0.1
Jul-16-2017	3.0	6.0	0.0052	5.5	3,400.0	0.0052	3,400	0.1
Jul-17-2017	2.9	5.7	0.0053	5.1	3,420.0	0.0053	3,420	0.1
Jul-18-2017	1.3	2.6	0.0057	5.2	3,450.0	0.0057	3,450	0.0
Jul-19-2017	0.7	1.3	0.0064	5.6	3,640.0	0.0064	3,640	0.0
Jul-20-2017	0.6	1.3	0.0061	5.6	3,630.0	0.0061	3,630	0.0
Jul-21-2017	0.7	1.4	0.0056	5.4	3,570.0	0.0056	3,570	0.0
Jul-22-2017	0.8	1.5	0.0056	5.3	3,540.0	0.0056	3,540	0.0
Jul-23-2017	0.8	1.5	0.0057	5.3	3,500.0	0.0057	3,500	0.0
Jul-24-2017	1.5	3.1	0.0059	5.1	3,480.0	0.0059	3,480	0.0
Jul-25-2017	2.3	4.5	0.0061	5.0	3,390.0	0.0061	3,390	0.1
Jul-26-2017	2.4	4.8	0.0067	5.2	3,520.0	0.0067	3,520	0.1
Jul-27-2017	2.1	4.2	0.0064	5.0	3,420.0	0.0064	3,420	0.1
Jul-28-2017	1.6	3.2	0.0058	4.9	3,360.0	0.0058	3,360	0.0
Jul-29-2017	1.6	3.2	0.0059	4.6	3,270.0	0.0059	3,270	0.1
Jul-30-2017	1.5	2.9	0.0062	4.5	3,200.0	0.0062	3,200	0.0
Jul-31-2017	1.4	2.9	0.0063	4.4	3,140.0	0.0063	3,140	0.0
Aug-01-2017	1.6	3.1	0.0068	4.3	3,130.0	0.0068	3,130	0.1
Aug-02-2017	1.6	3.1	0.0073	4.5	3,230.0	0.0073	3,230	0.1
Aug-03-2017	1.5	3.0	0.0070	4.4	3,210.0	0.0070	3,210	0.1
Aug-04-2017	1.4	2.8	0.0068	4.5	3,180.0	0.0068	3,180	0.1
Aug-05-2017	1.4	2.8	0.0068	4.4	3,130.0	0.0068	3,130	0.1
Aug-06-2017	1.4	2.8	0.0068	4.4	3,130.0	0.0068	3,130	0.1
Aug-07-2017	1.5	2.9	0.0071	4.4	3,130.0	0.0071	3,130	0.1
Aug-08-2017	2.4	4.8	0.0074	4.4	3,110.0	0.0074	3,110	0.1
Aug-09-2017	2.3	4.6	0.0080	4.7	3,170.0	0.0080	3,170	0.1
Aug-10-2017	2.0	4.1	0.0079	4.6	3,100.0	0.0079	3,100	0.1
Aug-11-2017	1.9	3.8	0.0068	4.5	3,010.0	0.0068	3,010	0.1
Aug-12-2017	1.8	3.5	0.0061	4.4	2,930.0	0.0061	2,930	0.1
Aug-13-2017	1.8	3.5	0.0070	4.1	2,870.0	0.0070	2,870	0.1
Aug-14-2017	1.8	3.6	0.0073	4.0	2,830.0	0.0073	2,830	0.1
Aug-15-2017	1.7	3.3	0.0075	4.0	2,790.0	0.0075	2,790	0.1
Aug-16-2017	1.5	3.0	0.0076	3.9	2,840.0	0.0076	2,840	0.1
Aug-17-2017	1.3	2.6	0.0067	3.8	2,800.0	0.0067	2,800	0.0
Aug-18-2017	0.8	1.7	0.0062	3.7	2,770.0	0.0062	2,770	0.0
Aug-19-2017	0.5	1.1	0.0060	3.7	2,750.0	0.0060	2,750	0.0
Aug-20-2017	0.2	0.5	0.0065	3.7	2,750.0	0.0065	2,750	0.0
Aug-21-2017	0.2	0.3	0.0071	3.7	2,740.0	0.0071	2,740	0.0
Aug-22-2017	0.1	0.2	0.0073	3.7	2,730.0	0.0073	2,730	0.0
Aug-23-2017	0.0	0.1	0.0071	3.8	2,860.0	0.0071	2,860	0.0
Aug-24-2017	0.0	0.0	0.0066	3.8	2,870.0	0.0066	2,870	0.0
Aug-25-2017	0.0	0.0	0.0061	3.8	2,850.0	0.0061	2,850	0.0
Aug-26-2017	0.0	0.0	0.0060	3.8	2,820.0	0.0060	2,820	0.0
Aug-27-2017	0.0	0.0	0.0060	3.8	2,800.0	0.0060	2,800	0.0
Aug-28-2017	0.0	0.0	0.0065	3.8	2,830.0	0.0065	2,830	0.0
Aug-29-2017	0.0	0.0	0.0070	3.8	2,810.0	0.0070	2,810	0.0
Aug-30-2017	0.0	0.0	0.0076	4.1	2,960.0	0.0076	2,960	0.0
Aug-31-2017	0.0	0.0	0.0076	4.1	2,960.0	0.0076	2,960	0.0
Sep-01-2017	0.0	0.0	0.0060	4.2	2,950.0	0.0060	2,950	0.0
Sep-02-2017	0.6	1.3	0.0060	4.1	2,930.0	0.0060	2,930	0.0
Sep-03-2017	2.8	5.5	0.0057	3.9	2,870.0	0.0057	2,870	0.1
Sep-04-2017	3.0	5.9	0.0071	3.6	2,700.0	0.0071	2,700	0.1
Sep-05-2017	3.7	7.4	0.0084	3.4	2,580.0	0.0084	2,580	0.2
Sep-06-2017	3.9	7.8	0.0080	3.4	2,630.0	0.0080	2,630	0.2
Sep-07-2017	3.6	7.2	0.0062	3.4	2,630.0	0.0062	2,630	0.1
Sep-08-2017	3.7	7.4	0.0056	3.0	2,460.0	0.0056	2,460	0.1
Sep-09-2017	3.9	7.7	0.0049	3.2	2,610.0	0.0049	2,610	0.1
Sep-10-2017	4.0	7.8	0.0040	3.7	3,070.0	0.0040	3,070	0.1
Sep-11-2017	4.2	8.3	0.0035	4.2	3,400.0	0.0035	3,400	0.1
Sep-12-2017	4.2	8.3	0.0038	4.4	3,510.0	0.0038	3,510	0.1
Sep-13-2017	4.4	8.8	0.0040	4.1	3,280.0	0.0040	3,280	0.1
Sep-14-2017	4.5	8.9	0.0039	3.7	3,050.0	0.0039	3,050	0.1
Sep-15-2017	4.6	9.2	0.0039	3.5	2,970.0	0.0039	2,970	0.1
Sep-16-2017	4.8	9.4	0.0039	3.3	2,900.0	0.0039	2,900	0.1
Sep-17-2017	4.7	9.3	0.0033	3.2	2,850.0	0.0033	2,850	0.1
Sep-18-2017	4.7	9.3	0.0032	3.1	2,840.0	0.0032	2,840	0.1
Sep-19-2017	4.7	9.3	0.0030	3.0	2,800.0	0.0030	2,800	0.1
Sep-20-2017	5.0	10.0	0.0031	3.1	2,760.0	0.0031	2,760	0.1
Sep-21-2017	5.1	10.0	0.0035	3.1	2,770.0	0.0035	2,770	0.1
Sep-22-2017	5.0	9.9	0.0032	3.0	2,760.0	0.0032	2,760	0.1
Sep-23-2017	4.9	9.7	0.0032	3.0	2,770.0	0.0032	2,770	0.1
Sep-24-2017	5.0	10.0	0.0032	3.1	2,810.0	0.0032	2,810	0.1
Sep-25-2017	5.2	10.2	0.0030	3.1	2,830.0	0.0030	2,830	0.1

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B2)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	mg/L	microm	lbs
Sep-26-2017	5.9	11.7	0.0030	3.0	2,760.0	0.0030	2,760	0.1
Sep-27-2017	6.3	12.5	0.0029	3.0	2,660.0	0.0029	2,660	0.1
Sep-28-2017	6.3	12.5	0.0031	3.0	2,610.0	0.0031	2,610	0.1
Sep-29-2017	6.4	12.6	0.0034	3.0	2,600.0	0.0034	2,600	0.1
Sep-30-2017	6.4	12.7	0.0032	2.9	2,600.0	0.0032	2,600	0.1
Oct-01-2017	6.1	12.0	0.0030	2.8	2,600.0	0.0030	2,600	0.1
Oct-02-2017	6.2	12.2	0.0028	2.8	2,550.0	0.0028	2,550	0.1
Oct-03-2017	6.6	13.2	0.0030	2.7	2,490.0	0.0030	2,490	0.1
Oct-04-2017	6.6	13.1	0.0029	2.8	2,430.0	0.0029	2,430	0.1
Oct-05-2017	6.6	13.1	0.0029	2.7	2,450.0	0.0029	2,450	0.1
Oct-06-2017	6.7	13.3	0.0030	2.6	2,410.0	0.0030	2,410	0.1
Oct-07-2017	6.7	13.3	0.0031	2.7	2,440.0	0.0031	2,440	0.1
Oct-08-2017	6.6	13.1	0.0031	2.7	2,430.0	0.0031	2,430	0.1
Oct-09-2017	7.4	14.7	0.0030	2.7	2,430.0	0.0030	2,430	0.1
Oct-10-2017	8.2	16.2	0.0033	2.7	2,400.0	0.0033	2,400	0.1
Oct-11-2017	7.8	15.5	0.0030	2.6	2,320.0	0.0030	2,320	0.1
Oct-12-2017	7.9	15.7	0.0030	2.6	2,360.0	0.0030	2,360	0.1
Oct-13-2017	8.3	16.4	0.0030	2.6	2,410.0	0.0030	2,410	0.1
Oct-14-2017	8.5	16.9	0.0029	2.7	2,460.0	0.0029	2,460	0.1
Oct-15-2017	9.1	18.1	0.0028	2.8	2,400.0	0.0028	2,400	0.1
Oct-16-2017	9.1	18.1	0.0028	2.6	2,300.0	0.0028	2,300	0.1
Oct-17-2017	9.3	18.4	0.0027	2.6	2,240.0	0.0027	2,240	0.1
Oct-18-2017	9.3	18.4	0.0023	2.5	2,150.0	0.0023	2,150	0.1
Oct-19-2017	9.3	18.5	0.0023	2.6	2,140.0	0.0023	2,140	0.1
Oct-20-2017	9.5	18.8	0.0023	2.6	2,200.0	0.0023	2,200	0.1
Oct-21-2017	9.3	18.4	0.0025	2.5	2,190.0	0.0025	2,190	0.1
Oct-22-2017	9.2	18.3	0.0023	2.5	2,200.0	0.0023	2,200	0.1
Oct-23-2017	9.5	18.9	0.0024	2.6	2,270.0	0.0024	2,270	0.1
Oct-24-2017	14.5	28.7	0.0024	2.5	2,230.0	0.0024	2,230	0.2
Oct-25-2017	9.4	18.6	0.0020	3.0	2,110.0	0.0020	2,110	0.1
Oct-26-2017	8.7	17.2	0.0022	2.9	2,100.0	0.0022	2,100	0.1
Oct-27-2017	8.7	17.2	0.0023	3.0	2,130.0	0.0023	2,130	0.1
Oct-28-2017	8.7	17.2	0.0021	3.0	2,190.0	0.0021	2,190	0.1
Oct-29-2017	8.7	17.2	0.0021	3.1	2,210.0	0.0021	2,210	0.1
Oct-30-2017	8.8	17.4	0.0023	2.7	2,260.0	0.0023	2,260	0.1
Oct-31-2017	8.9	17.7	0.0022	2.9	2,320.0	0.0022	2,320	0.1
Nov-01-2017	9.3	18.5	0.0020	2.8	2,220.0	0.0020	2,220	0.1
Nov-02-2017	9.2	18.3	0.0020	2.8	2,220.0	0.0020	2,220	0.1
Nov-03-2017	9.4	18.7	0.0019	2.8	2,230.0	0.0019	2,230	0.1
Nov-04-2017	9.3	18.4	0.0019	2.8	2,270.0	0.0019	2,270	0.1
Nov-05-2017	8.9	17.6	0.0018	2.9	2,310.0	0.0018	2,310	0.1
Nov-06-2017	8.8	17.5	0.0019	2.9	2,350.0	0.0019	2,350	0.1
Nov-07-2017	9.0	17.9	0.0018	2.9	2,360.0	0.0018	2,360	0.1
Nov-08-2017	9.4	18.6	0.0015	2.8	2,290.0	0.0015	2,290	0.1
Nov-09-2017	9.4	18.6	0.0016	2.9	2,350.0	0.0016	2,350	0.1
Nov-10-2017	9.2	18.2	0.0016	2.8	2,340.0	0.0016	2,340	0.1
Nov-11-2017	9.2	18.2	0.0017	2.7	2,260.0	0.0017	2,260	0.1
Nov-12-2017	9.5	18.8	0.0015	2.7	2,320.0	0.0015	2,320	0.1
Nov-13-2017	9.4	18.6	0.0017	2.7	2,300.0	0.0017	2,300	0.1
Nov-14-2017	9.1	18.1	0.0016	2.7	2,360.0	0.0016	2,360	0.1
Nov-15-2017	9.4	18.6	0.0015	2.8	2,360.0	0.0015	2,360	0.1
Nov-16-2017	9.8	19.4	0.0015	2.8	2,310.0	0.0015	2,310	0.1
Nov-17-2017	9.8	19.3	0.0016	2.7	2,280.0	0.0016	2,280	0.1
Nov-18-2017	9.6	18.9	0.0015	2.6	2,270.0	0.0015	2,270	0.1
Nov-19-2017	9.4	18.6	0.0016	2.6	2,300.0	0.0016	2,300	0.1
Nov-20-2017	9.3	18.5	0.0016	2.7	2,390.0	0.0016	2,390	0.1
Nov-21-2017	9.1	18.0	0.0016	2.6	2,310.0	0.0016	2,310	0.1
Nov-22-2017	9.1	18.0	0.0014	2.6	2,180.0	0.0014	2,180	0.1
Nov-23-2017	8.8	17.5	0.0015	2.6	2,200.0	0.0015	2,200	0.1
Nov-24-2017	8.8	17.5	0.0017	2.7	2,300.0	0.0017	2,300	0.1
Nov-25-2017	8.9	17.6	0.0014	2.7	2,290.0	0.0014	2,290	0.1
Nov-26-2017	8.9	17.7	0.0015	2.6	2,300.0	0.0015	2,300	0.1
Nov-27-2017	8.9	17.7	0.0016	2.7	2,290.0	0.0016	2,290	0.1
Nov-28-2017	8.9	17.6	0.0016	2.7	2,380.0	0.0016	2,380	0.1
Nov-29-2017	8.7	17.4	0.0015	2.8	2,300.0	0.0015	2,300	0.1
Nov-30-2017	8.7	17.2	0.0016	2.8	2,340.0	0.0016	2,340	0.1
Dec-01-2017	8.7	17.2	0.0014	2.9	2,380.0	0.0014	2,380	0.1
Dec-02-2017	8.7	17.2	0.0015	2.8	2,370.0	0.0015	2,370	0.1
Dec-03-2017	8.4	16.6	0.0016	2.9	2,410.0	0.0016	2,410	0.1
Dec-04-2017	8.3	16.4	0.0015	2.9	2,420.0	0.0015	2,420	0.1
Dec-05-2017	8.8	17.5	0.0016	0.5	2,410.0	0.0016	2,410	0.1
Dec-06-2017	9.1	18.1	0.0015	3.1	2,480.0	0.0015	2,480	0.1
Dec-07-2017	9.2	18.2	0.0016	3.0	2,480.0	0.0016	2,480	0.1
Dec-08-2017	9.5	18.9	0.0016	2.5	2,470.0	0.0016	2,470	0.1
Dec-09-2017	10.7	21.1	0.0015	3.0	2,500.0	0.0015	2,500	0.1
Dec-10-2017	12.1	24.0	0.0016	1.2	2,480.0	0.0016	2,480	0.1
Dec-11-2017	10.9	21.7	0.0016	2.9	2,380.0	0.0016	2,380	0.1
Dec-12-2017	10.2	20.2	0.0016	2.0	2,300.0	0.0016	2,300	0.1
Dec-13-2017	9.5	18.9	0.0014	3.1	2,520.0	0.0014	2,520	0.1
Dec-14-2017	9.6	19.0	0.0015	4.9	2,510.0	0.0015	2,510	0.1
Dec-15-2017	9.4	18.7	0.0015	2.9	2,510.0	0.0015	2,510	0.1
Dec-16-2017	8.6	17.0	0.0016	3.2	2,560.0	0.0016	2,560	0.1
Dec-17-2017	10.6	21.1	0.0016	3.2	2,570.0	0.0016	2,570	0.1
Dec-18-2017	12.1	24.1	0.0015	3.2	2,580.0	0.0015	2,580	0.1
Dec-19-2017	12.4	24.6	0.0012	2.7	2,530.0	0.0012	2,530	0.1
Dec-20-2017	13.1	26.0	0.0013	2.7	2,480.0	0.0013	2,480	0.1
Dec-21-2017	14.9	29.5	0.0013	2.6	2,460.0	0.0013	2,460	0.1
Dec-22-2017	15.5	30.8	0.0012	2.6	2,490.0	0.0012	2,490	0.1
Dec-23-2017	14.8	29.4	0.0012	2.5	2,320.0	0.0012	2,320	0.1
Dec-24-2017	14.4	28.5	0.0014	2.9	2,680.0	0.0014	2,680	0.1

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B2)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	mg/L	microm	lbs
Dec-25-2017	14.4	28.5	0.0013	2.8	2,530.0	0.0013	2,530	0.1
Dec-26-2017	14.4	28.5	0.0019	2.8	2,720.0	0.0019	2,720	0.1
Dec-27-2017	14.3	28.4	0.0013	2.9	2,520.0	0.0013	2,520	0.1
Dec-28-2017	12.2	24.2	0.0013	2.8	2,550.0	0.0013	2,550	0.1
Dec-29-2017	12.2	24.2	0.0013	2.8	2,530.0	0.0013	2,530	0.1
Dec-30-2017	9.6	19.0	0.0013	2.8	2,510.0	0.0013	2,510	0.1
Dec-31-2017	9.6	18.9	0.0013	2.8	2,480.0	0.0013	2,480	0.1

NOTES:

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 (Wet Year)
DATA SOURCE	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	UA3
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs	lbs
Jan-17	1,350	2,677	0.0264	11.0	6,241	0.0264	6,241	192	74
Feb-17	1,455	2,885	0.0487	10.0	6,022	0.0487	6,022	373	171
Mar-17	907	1,799	0.0404	8.5	5,428	0.0404	5,428	217	171
Apr-17	265	526	0.0188	10.5	6,188	0.0188	6,188	28	177
May-17	115	228	0.0097	12.6	6,612	0.0097	6,612	6	179
Jun-17	110	218	0.0048	3.5	2,670	0.0048	2,670	3	124
Jul-17	47	94	0.0058	4.7	3,166	0.0058	3,166	1	125
Aug-17	31	61	0.0069	4.1	2,938	0.0069	2,938	1	128
Sep-17	132	261	0.0043	3.4	2,832	0.0043	2,832	3	116
Oct-17	260	516	0.0026	2.7	2,317	0.0026	2,317	4	115
Nov-17	275	545	0.0016	2.7	2,299	0.0016	2,299	2	115
Dec-17	346	686	0.0015	2.8	2,488	0.0015	2,488	3	74
Calendar Year Totals/Avgs:		10,498	0.0143	6.4	4,100	0.0143	4,100	832	1,570

NOTES: * - Flow-weighted average concentration

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

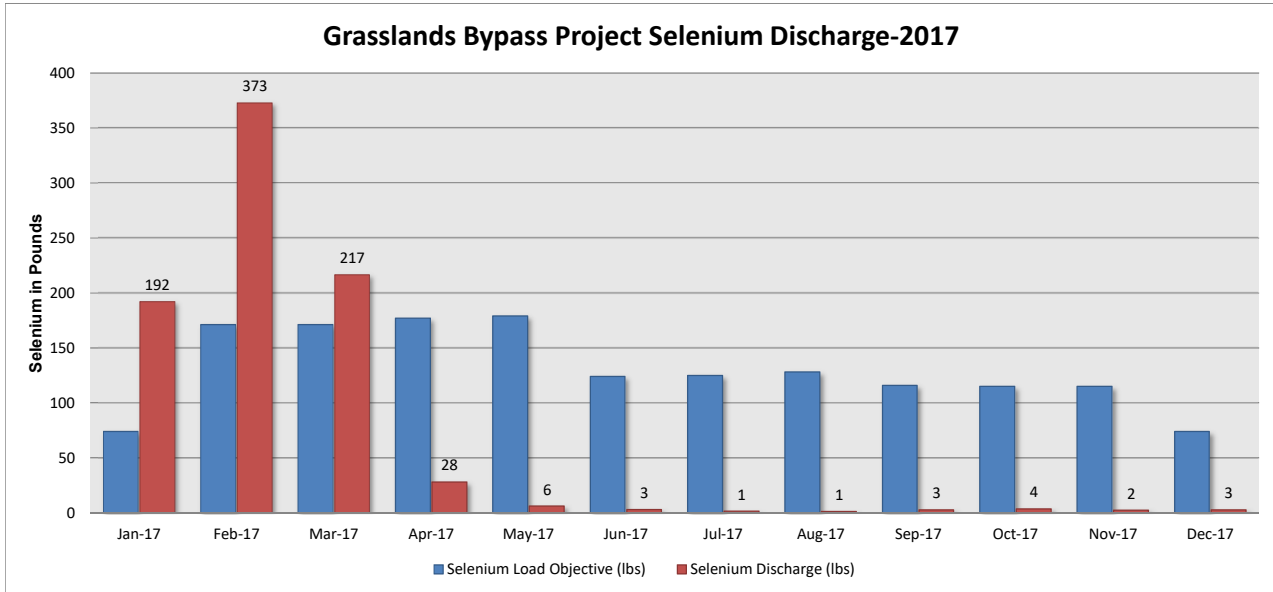
PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L
Jan-03-2017								
Jan-12-2017	9.3	7.6	5,427	13.1	14.0	22.8	12	
Jan-19-2017								
Jan-26-2017	12.1	7.7	4,988	10.9	37.8	23.3	10	18
Feb-02-2017	12.3	7.7	6,672	13.1	24.5	45.1	14	
Feb-09-2017	4.5	7.7	5,907	15.1	16.2	35.5	13	
Feb-17-2017						45.9	11	
Feb-23-2017	11.7	8.1	4,829	14.0	42.4	45.8	11	24
Mar-03-2017								
Mar-10-2017	15.9	8.5	5,246	17.8	13.8	68.6	9.2	
Mar-15-2017	16.0	8.2	3,859	23.8	11.4	31.1	6.2	
Mar-23-2017								
Mar-30-2017	13.5	8.3	6031.0	18.2	30.7	31.9	11	16
Apr-06-2017								
Apr-14-2017	11.4	8.0	4,444	17.2	21.0	12.6	9.8	
Apr-21-2017	9.4	8.2	6,490	19.4	13.6	31.1	14.0	
Apr-26-2017	10.6	8.2	4,528	19.7	18.2	8.6	8.8	31
May-04-2017	7.2	8.1	6,774	25.2	19.6	9.4	15	
May-12-2017	13.7	8.0	8,811	20.6	13.7	51.8	20	
May-18-2017	8.0	8.0	6,497	19.1	24.1	50.8	15	
May-25-2017	4.6	8.5	5,740	24.1	22.5	17.5	12	46
Jun-01-2017	7.5	6.4	3,107	25.9	30.2	11.7	5.4	
Jun-09-2017	5.0	8.2	3,239	23.1	49.3	6.02	6.2	
Jun-13-2017	9.7	8.6	2,735	21.8	52.6	5.47	5.1	
Jun-20-2017	8.7	8.2	2,197	29.3	14.8	4.13	2.5	
Jun-27-2017	8.8	8.1	2,154	25.7	12.9	4.01	2.3	26
Jul-05-2017	7.0	8.2	2,225	25.9	25.1	4.93	2.7	
Jul-12-2017	6.6	8.1	2,750	25.0	33.3	4.93	4.0	
Jul-18-2017	11.5	8.6	3,135	26.3	24.1	5.16	5.5	
Jul-27-2017	6.4	8.4	3,404	26.0	25.0	5.40	6.2	34
Aug-01-2017	7.2	8.4	3,416	26.2	16.0	5.96	5.5	
Aug-08-2017	11.5	8.6	3,277	25.7	8.7	6.04	5.1	
Aug-15-2017	5.5	8.7	1,588	24.6	9.3	7.62	5.0	
Aug-24-2017		8.4	2,363	25.6		7.12	3.4	34
Sep-01-2017	9.5	8.7	2,878	25.0	11.1	7.66	4.8	
Sep-08-2017	10.5	8.7	2,459	24.8	7.6	7.56	3.3	
Sep-15-2017		8.2	3,095	24.5	4.8	3.96	3.8	
Sep-22-2017		8.0	2,702	22.2	3.9	3.42	3.1	
Sep-26-2017								
Oct-06-2017	7.4	8.2	2,424	21.9	7.7	3.22	2.7	
Oct-13-2017		8.2	2,231	18.5	5.7	2.84	2.8	
Oct-19-2017	10.3	8.0	2,138	19.4	3.1	2.62	2.7	
Oct-27-2017	7.0	8.1	2,109	22.0	2.6	2.20	2.6	
Oct-31-2017	13.0	7.9	2,221	17.2	4.1	2.04	2.8	47
Nov-07-2017	14.4	8.0	2,361	16.6	3.2	3.0	2.9	
Nov-17-2017	11.9	8.0	2,277	16.4	2.4	1.99	2.7	
Nov-22-2017	13.3	7.9	2,136	14.8	1.9	1.91	2.6	
Nov-29-2017		7.8	2,257	13.6	1.5	1.78	2.8	44
Dec-07-2017	15.4	8.0	2,312	10.0	1.5	1.73	3.0	
Dec-15-2017	10.5	7.3	2,509	9.4	1.9	1.54	3.2	
Dec-21-2017	16.7	8.0	2,403	8.8	2.2	1.35	3.2	
Dec-27-2017	10.6	7.8	2,651	10.1	2.5	1.42	3.5	57

NOTES:

Nutrients		
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N
UNITS	mg/L	mg/L
Jan-26-2017	3.70	0.22
Feb-23-2017		
Mar-30-2017	11 U	0.13
Apr-26-2017	0.03	0.15
May-25-2017	<0.050 V	0.15
Jun-27-2017	0.02	0.16
Jul-27-2017	0.01	0.17 T
Aug-24-2017	0.01	0.13
Sep-26-2017		
Oct-31-2017	<0.010	<0.050
Nov-29-2017	<0.010	0.06
Dec-27-2017	<0.010 T	<0.050

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**

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jan-01-2017	62	9.1	2,970
Jan-02-2017	58	9.3	3,010
Jan-03-2017	59	9.9	3,050
Jan-04-2017	81	10.7	3,170
Jan-05-2017	121	11.0	3,280
Jan-06-2017	146	9.4	2,370
Jan-07-2017	200	9.7	2,670
Jan-08-2017	245	11.4	2,770
Jan-09-2017	332	12.5	2,540
Jan-10-2017	387	12.4	2,860
Jan-11-2017	416	12.3	2,290
Jan-12-2017	540	11.8	1,640
Jan-13-2017	599	11.0	1,610
Jan-14-2017	589	10.3	1,600
Jan-15-2017	538	9.6	1,600
Jan-16-2017	494	9.3	1,600
Jan-17-2017	455	8.9	1,610
Jan-18-2017	433	8.8	1,680
Jan-19-2017	433	9.2	1,750
Jan-20-2017	462	10.2	2,220
Jan-21-2017	492	10.3	1,990
Jan-22-2017	590	10.4	1,500
Jan-23-2017	607	10.5	1,120
Jan-24-2017	596	10.0	1,170
Jan-25-2017	585	9.8	1,250
Jan-26-2017	587	10.1	1,170
Jan-27-2017	580	10.1	1,190
Jan-28-2017	560	10.2	1,250
Jan-29-2017	541	10.4	1,220
Jan-30-2017	532	10.6	1,240
Jan-31-2017	528	10.7	1,220
Feb-01-2017	445	11.1	1,830
Feb-02-2017	378	12.1	2,490
Feb-03-2017	343	13.7	2,730
Feb-04-2017	308	14.7	2,900
Feb-05-2017	283	14.5	2,950
Feb-06-2017	281	13.9	2,860
Feb-07-2017	312	13.9	2,600
Feb-08-2017	383	14.5	1,870
Feb-09-2017	425	14.2	1,800
Feb-10-2017	518	14.4	1,770
Feb-11-2017	573	13.7	2,220

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-12-2017	619	13.0	2,000
Feb-13-2017	622	12.6	1,600
Feb-14-2017	592	13.1	1,360
Feb-15-2017	581	13.3	1,140
Feb-16-2017	574	13.8	1,360
Feb-17-2017	539	13.2	1,630
Feb-18-2017	535	13.1	1,890
Feb-19-2017	528	12.8	2,180
Feb-20-2017	511	12.6	2,250
Feb-21-2017	507	14.0	2,390
Feb-22-2017	543	13.5	1,860
Feb-23-2017	557	12.4	1,360
Feb-24-2017	554	12.1	1,310
Feb-25-2017	549	12.2	1,340
Feb-26-2017	546	12.5	1,340
Feb-27-2017	541	13.0	1,300
Feb-28-2017	503	12.6	1,530
Mar-01-2017	455	12.7	1,940
Mar-02-2017	422	13.6	2,260
Mar-03-2017	402	14.8	2,610
Mar-04-2017	382	15.7	2,730
Mar-05-2017	362	14.8	2,750
Mar-06-2017	340	13.4	2,850
Mar-07-2017	323	13.9	2,960
Mar-08-2017	304	14.9	2,840
Mar-09-2017	289	16.4	2,370
Mar-10-2017	279	17.4	2,350
Mar-11-2017	266	18.1	2,570
Mar-12-2017	252	18.9	2,370
Mar-13-2017	238	19.0	2,350
Mar-14-2017	228	19.9	2,270
Mar-15-2017	221	21.1	2,170
Mar-16-2017	213	20.3	2,060
Mar-17-2017	205	20.4	2,110
Mar-18-2017	199	20.2	2,190
Mar-19-2017	182	19.0	2,180
Mar-20-2017	168	18.6	2,150
Mar-21-2017	161	18.2	2,090
Mar-22-2017	163	16.6	2,110
Mar-23-2017	168	16.5	2,360
Mar-24-2017	167	16.3	2,430
Mar-25-2017	165	16.5	2,490
Mar-26-2017	156	17.3	2,630
Mar-27-2017	148	17.3	2,700

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-28-2017	136	16.9	2,580
Mar-29-2017	121	18.0	2,270
Mar-30-2017	109	18.4	1,990
Mar-31-2017	94	15.4	1,920
Apr-01-2017	79	16.4	1,870
Apr-02-2017	69	18.5	1,850
Apr-03-2017	59	18.9	1,830
Apr-04-2017	41	19.1	2,060
Apr-05-2017	34	20.3	2,170
Apr-06-2017	35	18.9	1,940
Apr-07-2017	36	16.3	1,920
Apr-08-2017	34	16.0	1,960
Apr-09-2017	34	16.4	2,210
Apr-10-2017	38	17.5	2,330
Apr-11-2017	44	18.3	2,050
Apr-12-2017	47	19.2	1,920
Apr-13-2017	51	18.7	1,990
Apr-14-2017	54	17.5	2,090
Apr-15-2017	49	17.3	2,290
Apr-16-2017	47	17.6	2,400
Apr-17-2017	46	17.1	2,530
Apr-18-2017	43	18.0	2,520
Apr-19-2017	41	19.2	2,720
Apr-20-2017	43	19.9	3,470
Apr-21-2017	39	19.7	2,740
Apr-22-2017	33	20.0	2,530
Apr-23-2017	30	20.0	2,360
Apr-24-2017	32	20.3	2,350
Apr-25-2017	37	19.4	2,140
Apr-26-2017	36	19.4	2,170
Apr-27-2017	38	20.5	2,470
Apr-28-2017	42	18.9	2,720
Apr-29-2017	35	17.6	2,860
Apr-30-2017	32	19.8	2,760
May-01-2017	31	21.3	2,640
May-02-2017	31	22.4	2,240
May-03-2017	34	22.4	3,740
May-04-2017	40	22.4	6,250
May-05-2017	41	22.2	7,940
May-06-2017	36	21.9	9,110
May-07-2017	31	21.3	10,700
May-08-2017	32	22.5	1,750
May-09-2017	29	22.2	3,780
May-10-2017	33	21.9	2,610

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-11-2017	39	21.9	7,470
May-12-2017	41	21.3	7,600
May-13-2017	32	20.1	6,230
May-14-2017	26	20.1	1,900
May-15-2017	24	20.2	1,440
May-16-2017	24	19.3	1,390
May-17-2017	26	20.0	1,460
May-18-2017	35	20.3	1,430
May-19-2017	42	21.9	1,340
May-20-2017	52	23.8	1,180
May-21-2017	46	25.3	1,500
May-22-2017	45	26.2	1,690
May-23-2017	44	26.7	1,570
May-24-2017	45	26.0	1,410
May-25-2017	46	23.2	1,450
May-26-2017	52	22.0	1,280
May-27-2017	53	23.0	1,300
May-28-2017	69	24.1	1,120
May-29-2017	78	24.8	1,040
May-30-2017	86	24.4	958
May-31-2017	79	24.5	1,030
Jun-01-2017	94	24.7	933
Jun-02-2017	93	25.4	1,170
Jun-03-2017	94	25.8	1,130
Jun-04-2017	78	25.6	1,270
Jun-05-2017	55	24.8	1,390
Jun-06-2017	33	25.7	1,420
Jun-07-2017	16	25.1	1,470
Jun-08-2017	6	22.9	1,330
Jun-09-2017	6	23.1	1,210
Jun-10-2017	5	22.6	1,410
Jun-11-2017	5	21.8	1,470
Jun-12-2017	5	21.2	1,450
Jun-13-2017	6	22.5	1,360
Jun-14-2017	7	23.1	1,910
Jun-15-2017	8	24.6	2,360
Jun-16-2017	8	25.6	1,790
Jun-17-2017	9	27.0	1,200
Jun-18-2017	8	28.6	862
Jun-19-2017	7	30.1	918
Jun-20-2017	6	30.4	950
Jun-21-2017	5	30.2	1,300
Jun-22-2017	4	29.7	1,700
Jun-23-2017	4	29.4	1,860

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-24-2017	4	28.9	1,890
Jun-25-2017	4	28.3	1,940
Jun-26-2017	4	27.1	1,940
Jun-27-2017	5	26.3	2,020
Jun-28-2017	7	25.8	1,980
Jun-29-2017	7	25.6	1,810
Jun-30-2017	14	25.5	1,610
Jul-01-2017	25	25.8	1,950
Jul-02-2017	37	25.8	2,330
Jul-03-2017	39	26.9	2,570
Jul-04-2017	27	27.5	2,880
Jul-05-2017	18	26.9	3,410
Jul-06-2017	16	27.0	3,630
Jul-07-2017	15	27.0	3,900
Jul-08-2017	14	26.9	4,160
Jul-09-2017	12	26.9	4,740
Jul-10-2017	12	27.4	5,310
Jul-11-2017	11	26.6	5,460
Jul-12-2017	13	26.6	4,230
Jul-13-2017	15	27.4	3,200
Jul-14-2017	16	27.8	3,290
Jul-15-2017	16	26.8	2,790
Jul-16-2017	18	27.3	2,320
Jul-17-2017	15	27.7	2,640
Jul-18-2017	15	26.8	2,720
Jul-19-2017	15	26.1	2,260
Jul-20-2017	15	26.2	1,780
Jul-21-2017	19	26.6	1,900
Jul-22-2017	24	26.9	1,530
Jul-23-2017	30	27.8	1,340
Jul-24-2017	31	28.0	1,250
Jul-25-2017	31	27.3	1,240
Jul-26-2017	30	27.2	1,240
Jul-27-2017	27	27.5	1,530
Jul-28-2017	25	27.9	1,580
Jul-29-2017	22	27.5	1,770
Jul-30-2017	18	27.2	2,150
Jul-31-2017	19	27.2	1,990
Aug-01-2017	21	27.8	1,810
Aug-02-2017	18	29.5	1,870
Aug-03-2017	12	28.8	1,970
Aug-04-2017	11	26.0	2,050
Aug-05-2017	9	26.4	2,560
Aug-06-2017	7	26.8	4,320

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-07-2017	7	26.1	5,180
Aug-08-2017	9	26.3	4,110
Aug-09-2017	11	26.8	2,260
Aug-10-2017	9	26.8	2,530
Aug-11-2017	8	26.7	3,280
Aug-12-2017	8	27.1	4,270
Aug-13-2017	16	26.3	1,770
Aug-14-2017	19	26.3	1,240
Aug-15-2017	25	25.0	1,040
Aug-16-2017	16	25.6	1,200
Aug-17-2017	8	26.2	2,210
Aug-18-2017	8	26.8	3,580
Aug-19-2017	17	26.6	920
Aug-20-2017	24	26.2	650
Aug-21-2017	20	25.6	595
Aug-22-2017	22	25.6	524
Aug-23-2017	18	26.7	642
Aug-24-2017	14	26.0	704
Aug-25-2017	12	25.9	735
Aug-26-2017	8	25.9	1,910
Aug-27-2017	10	26.8	1,150
Aug-28-2017	9	27.6	1,270
Aug-29-2017	11	27.2	898
Aug-30-2017	7	26.2	1,610
Aug-31-2017	7	25.1	2,290
Sep-01-2017	7	25.9	2,440
Sep-02-2017	12	27.1	954
Sep-03-2017	17	27.9	1,010
Sep-04-2017	14	26.9	1,410
Sep-05-2017	16	27.7	1,140
Sep-06-2017	20	27.7	932
Sep-07-2017	20	25.7	872
Sep-08-2017	24	25.2	773
Sep-09-2017	22	25.6	874
Sep-10-2017	25	25.9	781
Sep-11-2017	26	26.2	836
Sep-12-2017	31	26.4	814
Sep-13-2017	39	25.7	722
Sep-14-2017	34	24.1	776
Sep-15-2017	24	22.7	989
Sep-16-2017	21	23.0	1,120
Sep-17-2017	18	23.0	1,230
Sep-18-2017	17	22.9	1,370
Sep-19-2017	25	21.3	1,020
Sep-20-2017	60	21.2	630

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-21-2017	91	21.5	497
Sep-22-2017	94	20.1	528
Sep-23-2017	37	19.3	831
Sep-24-2017	28	19.0	1,030
Sep-25-2017	26	19.5	1,150
Sep-26-2017	38	20.3	903
Sep-27-2017	46	21.4	820
Sep-28-2017	29	22.2	1,170
Sep-29-2017	29	22.1	1,200
Sep-30-2017	34	21.9	1,060
Oct-01-2017	36	20.1	1,040
Oct-02-2017	36	17.7	1,140
Oct-03-2017	40	17.6	1,050
Oct-04-2017	48	18.1	944
Oct-05-2017	45	18.3	1,030
Oct-06-2017	45	18.7	1,100
Oct-07-2017	46	19.3	1,130
Oct-08-2017	49	18.8	1,100
Oct-09-2017	56	17.9	1,050
Oct-10-2017	63	18.4	1,000
Oct-11-2017	73	18.0	933
Oct-12-2017	68	16.0	1,020
Oct-13-2017	70	15.7	1,020
Oct-14-2017	76	16.0	1,000
Oct-15-2017	101	16.5	880
Oct-16-2017	115	17.2	854
Oct-17-2017	121	17.6	837
Oct-18-2017	141	17.9	776
Oct-19-2017	156	18.1	747
Oct-20-2017	150	17.9	797
Oct-21-2017	134	16.8	853
Oct-22-2017	131	16.9	845
Oct-23-2017	136	17.6	839
Oct-24-2017	129	18.5	897
Oct-25-2017	122	19.3	921
Oct-26-2017	113	19.8	958
Oct-27-2017	113	20.1	959
Oct-28-2017	115	20.0	961
Oct-29-2017	115	19.6	982
Oct-30-2017	116	18.6	991
Oct-31-2017	116	17.1	994
Nov-01-2017	120	16.7	999
Nov-02-2017	115	16.3	1,030
Nov-03-2017	120	16.3	1,000
Nov-04-2017	119	16.5	1,000
Nov-05-2017	123	15.6	998

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Nov-06-2017	122	14.7	1,030
Nov-07-2017	118	14.4	1,040
Nov-08-2017	129	14.3	1,000
Nov-09-2017	134	15.4	997
Nov-10-2017	135	15.9	1,000
Nov-11-2017	135	15.9	1,000
Nov-12-2017	136	15.6	1,010
Nov-13-2017	140	15.5	992
Nov-14-2017	132	16.2	1,040
Nov-15-2017	125	16.0	1,070
Nov-16-2017	127	16.0	1,090
Nov-17-2017	125	15.7	1,120
Nov-18-2017	128	14.4	1,100
Nov-19-2017	133	13.9	1,080
Nov-20-2017	132	14.5	1,110
Nov-21-2017	141	14.6	1,060
Nov-22-2017	145	14.6	1,060
Nov-23-2017	141	15.7	1,090
Nov-24-2017	135	16.7	1,140
Nov-25-2017	129	16.7	1,170
Nov-26-2017	129	16.3	1,160
Nov-27-2017	129	15.4	1,170
Nov-28-2017	123	14.0	1,230
Nov-29-2017	122	13.3	1,200
Nov-30-2017	120	12.8	1,220
Dec-01-2017	120	12.4	1,230
Dec-02-2017	116	12.3	1,270
Dec-03-2017	111	12.4	1,310
Dec-04-2017	106	10.4	1,380
Dec-05-2017	105	9.5	1,360
Dec-06-2017	112	9.2	1,340
Dec-07-2017	106	9.2	1,430
Dec-08-2017	95	9.3	1,520
Dec-09-2017	97	9.3	1,470
Dec-10-2017	95	9.4	1,490
Dec-11-2017	93	9.5	1,510
Dec-12-2017	91	9.5	1,540
Dec-13-2017	89	9.3	1,570
Dec-14-2017	88	9.4	1,600
Dec-15-2017	86	9.4	1,640
Dec-16-2017	83	9.6	1,700
Dec-17-2017	83	8.7	1,670
Dec-18-2017	78	8.9	1,770
Dec-19-2017	73	9.1	1,850
Dec-20-2017	71	10.4	1,880
Dec-21-2017	73	9.0	1,840

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-22-2017	82	8.2	1,730
Dec-23-2017	87	8.8	1,670
Dec-24-2017	86	9.2	1,700
Dec-25-2017	86	9.4	1,720
Dec-26-2017	86	10.0	1,740
Dec-27-2017	80	10.0	1,820
Dec-28-2017	81	10.0	1,790
Dec-29-2017	82	10.1	1,790
Dec-30-2017	85	10.0	1,760
Dec-31-2017	86	10.3	1,740

NOTES: USGS data webpage

http://waterdata.usgs.gov/nwis/dv/?site_no=11262900&agency_cd=USGS&referred_module=sw

Table 3b. Monthly averages and totals

PARAMETER	Total Flow USGS	Average Temperature	Average Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
Jan-17	25,480	10.3	1,955
Feb-17	27,070	13.2	1,924
Mar-17	14,520	17.1	2,376
Apr-17	2,530	18.6	2,307
May-17	2,620	22.6	3,114
Jun-17	1,200	25.9	1,502
Jul-17	1,260	27.0	2,680
Aug-17	790	26.5	1,973
Sep-17	1,830	23.6	996
Oct-17	5,700	18.1	956
Nov-17	7,660	15.3	1,074
Dec-17	5,580	9.7	1,607

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	Total Organic Carbon
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity				
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L	mg/L
Jan-03-2017									
Jan-12-2017	8.7	7.3	1,602	13.3	304	2.8	2.1		11
Jan-19-2017									
Jan-26-2017	13.3	7.1	1,170	11.3	73	2.1	1.4	4	10
Feb-02-2017	10.3	7.8	2,667	12.1	43	8.44 U	3.5		14
Feb-09-2017	6.7	7.9	2,017	14.3	64	4.37 U	2.4		14
Feb-17-2017									
Feb-23-2017	9.3	7.8	1,274	14.3	100	5.69 U	1.8	5	6
Mar-03-2017									
Mar-10-2017	9.4	7.7	2,079	11.4	50	5.55 U	2.0		14
Mar-15-2017	10.0	7.7	2,158	21.3	33	1.8	1.4		15
Mar-23-2017									
Mar-30-2017	8.5	7.7	1,955	17.9	42	1.9	2.0	6	14
Apr-07-2017									
Apr-14-2017	10.2	8.3	2,082	16.3	60	0.7	2.1		14
Apr-21-2017	10.4	8.2	2,733	18.7	56	5.52 U	3.9		12
Apr-26-2017	8.5	7.8	2,199	19.4	34	0.8	2.2	9	15
May-04-2017	10.0	8.3	2,366	29.8	42	0.6	2.0		12
May-12-2017	11.3	8.2	3,075	20.5	65	2.0	4.8		10
May-18-2017	9.1	8.3	1,418	18.0	83	0.8	1.3		8
May-25-2017	4.9	8.1	1,793	22.8	75	0.8	1.6	10	10
Jun-01-2017	7.4	6.1	869	25.7	85	0.7	0.7		9
Jun-09-2017	4.1	8.1	1,209	22.0	64	0.6	1.2		11
Jun-13-2017	9.4	8.3	1,252	22.1	65	0.6	1.2		8
Jun-20-2017	6.5	7.7	889	29.2	85	1.1	0.8		7
Jun-27-2017	9.4	8.2	1,988	26.6	22	1.2	1.5	12	12
Jul-05-2017	6.2	7.6	3,368	25.2	141	0.8	2.6		9
Jul-12-2017	9.9	8.0	4,277	23.8	55	0.9	3.3		10
Jul-18-2017	11.0	8.0	3,021	23.8	82	0.9	3.0		5
Jul-27-2017	8.3	8.1	1,542	25.2	78	0.7	1.6	12	5
Aug-01-2017	8.7	8.3	1,847	25.0	81	0.7	1.6		5
Aug-08-2017	10.6	8.1	4,865	23.4	45	2.5	4.6		10
Aug-15-2017	4.9	8.3	1,073	23.5	83	0.7	1.0		7.5 T
Aug-24-2017		8.2	725	25.6		0.6	0.5	4	6
Sep-01-2017	8.6	7.9	2,692	23.9	48	<0.4	1.7		7.2 T
Sep-08-2017	10.8	8.2	790	23.8	62	1.0	0.7		8
Sep-15-2017		8.0	988	23.8	81	0.8	0.9		7
Sep-22-2017	10.4	7.7	499	21.0	57	<0.4	0.3		6
Sep-26-2017									
Oct-06-2017	5.3	7.7	1,117	20.3	32	0.6	0.9		15
Oct-13-2017		7.7	983	18.4	27	0.5	0.8		13
Oct-19-2017									
Oct-27-2017	7.4	7.6	970	20.6	18	0.4	0.8		16
Oct-31-2017	9.3	7.4	1,010	16.8	76	<0.4	0.8	8	17
Nov-07-2017	11.9	7.7	1,049	15.4	19	0.6	0.9		14 T
Nov-17-2017	8.9	7.6	1,143	16.6	21	0.5	1.0		14
Nov-22-2017	10.8	7.6	1,048	14.5	24	0.5	0.9		13
Nov-29-2017		7.7	1,209	13.1	18	<0.4	1.0	7	13
Dec-07-2017	14.4	7.9	1,435	10.0	14	0.5	1.2		13
Dec-15-2017	10.1	7.6	1,715	9.9	12	0.5	1.4		12
Dec-21-2017	14.4	7.9	1,858	9.7	10	<0.4	1.6		14
Dec-27-2017	11.4	7.6	1,984	10.1	10	0.5	1.8	14	14

NOTES:

Nutrients		
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N
DATA SOURCE	USBR	USBR
UNITS	mg/L	mg/L
Jan-26-2017	0.96	0.26
Mar-30-2017	0.65	0.17
Apr-26-2017	0.02	0.15
May-25-2017	0.33 H,V	0.16
Jun-27-2017	0.02	0.21
Jul-27-2017	0.30	0.13 T
Aug-24-2017	0.20	0.09
Oct-31-2017	0.02	0.26
Nov-29-2017	0.13	0.19
Dec-27-2017	0.034 T	0.15

NOTES:

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

PARAMETER	Physicals					Total Selenium	Total Boron
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity		
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L
Jan-03-2017							
Jan-12-2017	9.0	7.8	1,255	13.4	68.1	<0.4	1.1
Jan-19-2017							
Jan-26-2017	12.7	7.8	802	11.1	67.8	<0.4	0.7
Feb-02-2017	10.2	7.9	1,555	13.4	39.7	0.4	1.1
Feb-09-2017	5.6	7.3	1,182	14.9	117.0	<0.4	1.0
Feb-17-2017							
Feb-23-2017	10.5	8.0	780	13.3	87.2	0.4	0.6
Mar-03-2017							
Mar-10-2017	10.7	7.9	1,773	18.0	52.6	0.6	1.4
Mar-15-2017	12.2	8.1	2,000	24.2	31.6	0.5	1.8
Mar-24-2017							
Mar-30-2017	10.3	7.1	1,764	18.2	37.3	0.4	1.6
Apr-07-2017							
Apr-14-2017	9.8	7.7	1,889	16.3	64.2	0.5	2.0
Apr-21-2017	10.3	7.7	1,704	19.0	67.7	0.6	1.7
Apr-26-2017	9.1	8.1	2,193	19.7	38.3	0.5	1.8
May-04-2017	8.8	7.9	1,995	28.0	43.4	0.5	1.8
May-12-2017	10.0	7.7	1,801	19.8	76.8	0.5	1.7
May-18-2017	8.1	7.7	935	17.7	78.0	0.5	0.8
May-25-2017	5.9	7.8	1,098	22.8	81.5	<0.4	0.8
Jun-01-2017	8.7	6.0	756	25.4	110.0	0.5	0.6
Jun-09-2017	4.4	7.0	1,084	22.7	85.4	0.5	1.0
Jun-13-2017	9.7	8.0	1,115	22.3	65.0	0.9	1.0
Jun-20-2017	7.7	7.8	732	29.2	113.0	0.7	0.7
Jun-27-2017	7.6	7.8	1,983	26.0	49.5	<0.4	1.5
Jul-05-2017	7.9	7.9	2,468	25.4	80.5	<0.4	2.0
Jul-12-2017	11.0	8.2	2,659	24.6	48.7	0.5	2.1
Jul-18-2017	11.4	8.0	2,222	23.8	55.3	0.5	2.1
Jul-27-2017	8.0	7.7	1,394	24.5	72.7	0.6	1.5
Aug-01-2017	8.6	8.2	1,567	25.1	78.1	0.5	1.3
Aug-08-2017	11.8	7.9	1,657	22.8	117.0	0.6	1.4
Aug-15-2017	5.6	8.0	918	22.6	85.6	<0.4	0.8
Aug-24-2017		8.3	539	26.2		0.6	0.4
Sep-01-2017	11.2	8.3	1,355	25.0	22.4	<0.4	0.9
Sep-08-2017	10.2	7.7	498	23.6	55.4	<0.4	0.3
Sep-15-2017		8.1	532	23.7	68.2	<0.4	0.3
Sep-22-2017	11.1	7.7	377	20.6	51.8	<0.4	0.2
Sep-26-2017							
Oct-06-2017	5.3	7.6	876	20.6	29.8	<0.4	0.6
Oct-13-2017		7.6	831	17.4	20.0	<0.4	0.6
Oct-19-2017							
Oct-27-2017	6.4	7.4	865	10.8	11.7	<0.4	0.6
Oct-31-2017	9.3	7.4	1,010	16.8	76.4	<0.4	0.6
Nov-07-2017	12.0	7.5	868	13.9	36.7	<0.4	0.6
Nov-17-2017	9.5	7.5	982	16.3	19.2	<0.4	0.7
Nov-22-2017	10.9	7.6	926	14.5	20.0	<0.4	0.8
Nov-29-2017		7.8	1,077	13.1	16.7	<0.4	0.9
Dec-07-2017	14.0	8.0	1,299	9.9	12.7	<0.4	1.0
Dec-15-2017	12.1	7.4	1,573	10.1	8.7	<0.4	1.1
Dec-21-2017	15.8	7.9	1,551	10.0	11.5	<0.4	1.2
Dec-27-2017	11.4	7.8	1,742	10.4	10.8	<0.4	1.3

NOTES:

Table 5a. Water monitoring in Salt Slough at Highway 165 (Station F)
USGS Station Code: 11261100

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jan-01-2017	60	8.6	1,930
Jan-02-2017	56	9.1	1,980
Jan-03-2017	54	9.7	1,910
Jan-04-2017	67	10.7	1,895
Jan-05-2017	72	11.0	1,875
Jan-06-2017	77	9.2	1,880
Jan-07-2017	91	9.9	1,770
Jan-08-2017	114	11.6	1,680
Jan-09-2017	143	12.3	1,655
Jan-10-2017	194	12.2	1,640
Jan-11-2017	224	12.2	1,660
Jan-12-2017	236	12.2	1,610
Jan-13-2017	237	11.4	1,625
Jan-14-2017	216	10.4	1,700
Jan-15-2017	210	9.6	1,740
Jan-16-2017	201	9.2	1,785
Jan-17-2017	192	8.5	1,845
Jan-18-2017	184	8.4	1,855
Jan-19-2017	180	8.8	1,925
Jan-20-2017	181	9.8	1,910
Jan-21-2017	185	10.0	1,880
Jan-22-2017	198	10.1	1,735
Jan-23-2017	210	10.2	1,720
Jan-24-2017	214	9.7	1,720
Jan-25-2017	220	9.3	1,765
Jan-26-2017	222	9.6	1,870
Jan-27-2017	220	9.5	1,960
Jan-28-2017	215	9.6	2,005
Jan-29-2017	210	9.8	2,045
Jan-30-2017	210	10.0	2,090
Jan-31-2017	221	10.3	2,135
Feb-01-2017	236	10.9	2,195
Feb-02-2017	239	11.9	2,250
Feb-03-2017	230	13.4	2,230
Feb-04-2017	222	14.2	2,135
Feb-05-2017	216	13.9	2,060
Feb-06-2017	198	13.7	2,025
Feb-07-2017	185	13.9	1,940
Feb-08-2017	177	14.6	1,890
Feb-09-2017	187	14.6	1,785
Feb-10-2017	210	14.8	1,700

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-11-2017	222	14.4	1,695
Feb-12-2017	221	13.8	1,635
Feb-13-2017	219	13.6	1,650
Feb-14-2017	218	14.0	1,675
Feb-15-2017	219	14.2	1,705
Feb-16-2017	215	14.9	1,695
Feb-17-2017	209	14.1	1,710
Feb-18-2017	210	13.7	1,740
Feb-19-2017	214	13.5	1,630
Feb-20-2017	213	13.0	1,520
Feb-21-2017	213	13.6	1,560
Feb-22-2017	218	13.4	1,570
Feb-23-2017	219	12.9	1,550
Feb-24-2017	215	12.5	1,635
Feb-25-2017	211	12.3	1,710
Feb-26-2017	208	12.4	1,645
Feb-27-2017	206	12.9	1,605
Feb-28-2017	206	12.7	1,530
Mar-01-2017	204	12.8	1,435
Mar-02-2017	203	13.3	1,390
Mar-03-2017	202	13.8	1,380
Mar-04-2017	203	14.5	1,365
Mar-05-2017	202	14.2	1,365
Mar-06-2017	200	13.5	1,365
Mar-07-2017	200	13.6	1,340
Mar-08-2017	198	14.1	1,305
Mar-09-2017	195	15.1	1,280
Mar-10-2017	194	16.1	1,320
Mar-11-2017	192	17.0	1,420
Mar-12-2017	188	17.8	1,470
Mar-13-2017	185	18.3	1,450
Mar-14-2017	184	19.2	1,435
Mar-15-2017	185	20.0	1,430
Mar-16-2017	185	19.8	1,425
Mar-17-2017	186	19.9	1,400
Mar-18-2017	188	19.8	1,360
Mar-19-2017	186	18.9	1,335
Mar-20-2017	183	18.5	1,320
Mar-21-2017	184	18.0	1,280
Mar-22-2017	186	16.8	1,230
Mar-23-2017	189	16.3	1,190
Mar-24-2017	192	16.2	1,140
Mar-25-2017	196	16.1	1,135

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-26-2017	196	16.5	1,205
Mar-27-2017	194	16.7	1,275
Mar-28-2017	188	16.6	1,310
Mar-29-2017	179	17.6	1,350
Mar-30-2017	172	17.6	1,395
Mar-31-2017	166	15.8	1,460
Apr-01-2017	159	16.4	1,495
Apr-02-2017	152	17.5	1,495
Apr-03-2017	144	17.9	1,445
Apr-04-2017	138	18.2	1,400
Apr-05-2017	137	18.9	1,300
Apr-06-2017	136	18.3	1,295
Apr-07-2017	134	16.7	1,310
Apr-08-2017	134	16.0	1,270
Apr-09-2017	134	15.7	1,220
Apr-10-2017	141	16.1	1,125
Apr-11-2017	150	17.0	1,085
Apr-12-2017	156	18.1	1,200
Apr-13-2017	159	18.0	1,355
Apr-14-2017	159	17.0	1,460
Apr-15-2017	156	16.6	1,545
Apr-16-2017	154	16.8	1,540
Apr-17-2017	153	16.5	1,455
Apr-18-2017	153	17.0	1,345
Apr-19-2017	153	17.9	1,270
Apr-20-2017	154	18.9	1,235
Apr-21-2017	154	18.9	1,170
Apr-22-2017	150	19.2	1,180
Apr-23-2017	147	19.4	1,140
Apr-24-2017	148	19.3	1,195
Apr-25-2017	153	18.8	1,300
Apr-26-2017	153	18.7	1,370
Apr-27-2017	153	19.3	1,475
Apr-28-2017	154	18.4	1,510
Apr-29-2017	154	17.6	1,410
Apr-30-2017	153	19.0	1,290
May-01-2017	152	20.1	1,230
May-02-2017	150	21.5	1,210
May-03-2017	147	23.3	1,200
May-04-2017	144	24.9	1,235
May-05-2017	136	23.9	1,295
May-06-2017	126	21.5	1,315
May-07-2017	120	20.0	1,160

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-08-2017	127	20.1	987
May-09-2017	139	21.3	894
May-10-2017	151	21.4	890
May-11-2017	159	21.2	924
May-12-2017	163	20.2	959
May-13-2017	158	19.3	1,019
May-14-2017	153	19.0	1,054
May-15-2017	155	18.9	1,075
May-16-2017	168	18.5	983
May-17-2017	179	18.9	984
May-18-2017	180	19.4	1,040
May-19-2017	169	20.8	1,025
May-20-2017	151	22.6	1,070
May-21-2017	140	24.4	1,037
May-22-2017	135	25.3	985
May-23-2017	130	26.2	990
May-24-2017	123	25.7	1,090
May-25-2017	114	23.2	1,105
May-26-2017	111	21.1	1,008
May-27-2017	115	21.1	891
May-28-2017	115	22.4	907
May-29-2017	114	23.4	950
May-30-2017	125	23.3	851
May-31-2017	142	23.3	849
Jun-01-2017	171	23.6	919
Jun-02-2017	182	24.0	916
Jun-03-2017	189	24.9	890
Jun-04-2017	187	24.7	889
Jun-05-2017	180	23.9	900
Jun-06-2017	173	24.5	939
Jun-07-2017	170	24.2	990
Jun-08-2017	166	22.9	1,120
Jun-09-2017	163	22.1	1,290
Jun-10-2017	163	21.8	1,165
Jun-11-2017	162	20.8	1,060
Jun-12-2017	161	20.0	1,003
Jun-13-2017	166	20.9	933
Jun-14-2017	171	22.4	893
Jun-15-2017	173	23.4	822
Jun-16-2017	173	24.6	394
Jun-17-2017	174		
Jun-18-2017	172		
Jun-19-2017	173		

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-20-2017	171		
Jun-21-2017	169		
Jun-22-2017	166		
Jun-23-2017	165		
Jun-24-2017	164		
Jun-25-2017	164		
Jun-26-2017	167		
Jun-27-2017	173		
Jun-28-2017	176		
Jun-29-2017	184	25.6	758
Jun-30-2017	183	25.6	756
Jul-01-2017	184	25.5	752
Jul-02-2017	187	25.5	697
Jul-03-2017	180	25.7	699
Jul-04-2017	177	26.2	653
Jul-05-2017	160	26.5	636
Jul-06-2017	141	26.7	692
Jul-07-2017	135	26.9	657
Jul-08-2017	130	27.2	671
Jul-09-2017	117	27.2	791
Jul-10-2017	111	27.8	909
Jul-11-2017	119	27.5	703
Jul-12-2017	124	26.7	624
Jul-13-2017	119	26.8	694
Jul-14-2017	114	27.1	703
Jul-15-2017	112	26.7	676
Jul-16-2017	116	26.9	596
Jul-17-2017	117	27.3	617
Jul-18-2017	120	27.0	626
Jul-19-2017	121	26.1	605
Jul-20-2017	110	25.7	639
Jul-21-2017	92	25.9	712
Jul-22-2017	88	26.2	797
Jul-23-2017	99	27.0	695
Jul-24-2017	111	27.2	604
Jul-25-2017	119	26.4	571
Jul-26-2017	117	26.3	593
Jul-27-2017	102	26.6	696
Jul-28-2017	103	27.2	744
Jul-29-2017	113	27.1	653
Jul-30-2017	120	26.8	671
Jul-31-2017	131	26.7	640
Aug-01-2017	146	26.9	601

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-02-2017	157	28.1	605
Aug-03-2017	151	28.3	605
Aug-04-2017	141	27.0	604
Aug-05-2017	129	26.3	625
Aug-06-2017	118	26.6	670
Aug-07-2017	125	26.2	614
Aug-08-2017	139	25.9	556
Aug-09-2017	147	25.9	560
Aug-10-2017	142	26.1	584
Aug-11-2017	139	26.1	592
Aug-12-2017	141	26.4	570
Aug-13-2017	147	26.0	583
Aug-14-2017	150	25.4	581
Aug-15-2017	151	24.0	568
Aug-16-2017	149	23.3	574
Aug-17-2017	143	24.2	582
Aug-18-2017	133	25.3	662
Aug-19-2017	126	26.0	695
Aug-20-2017	125	25.4	682
Aug-21-2017	133	24.6	649
Aug-22-2017	143	24.3	599
Aug-23-2017	154	24.7	579
Aug-24-2017	157	25.0	597
Aug-25-2017	146	25.0	652
Aug-26-2017	133	25.3	752
Aug-27-2017	137	26.0	666
Aug-28-2017	148	26.6	595
Aug-29-2017	156	27.1	558
Aug-30-2017	156	26.6	587
Aug-31-2017	150	25.6	643
Sep-01-2017	142	25.6	681
Sep-02-2017	138	26.4	653
Sep-03-2017	132	27.4	659
Sep-04-2017	124	27.1	725
Sep-05-2017	115	27.0	784
Sep-06-2017	108	27.0	824
Sep-07-2017	101	25.3	897
Sep-08-2017	106	24.3	805
Sep-09-2017	116	24.6	640
Sep-10-2017	123	25.0	590
Sep-11-2017	122	25.5	592
Sep-12-2017	119	25.7	648
Sep-13-2017	110	24.9	767

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-14-2017	103	23.1	779
Sep-15-2017	98	21.7	812
Sep-16-2017	96	21.8	823
Sep-17-2017	98	22.0	826
Sep-18-2017	100	21.9	780
Sep-19-2017	100	21.0	789
Sep-20-2017	103	20.6	745
Sep-21-2017	107	20.6	714
Sep-22-2017	107	19.2	768
Sep-23-2017	105	18.5	767
Sep-24-2017	106	18.2	726
Sep-25-2017	109	18.6	646
Sep-26-2017	112	19.3	612
Sep-27-2017	111	20.3	652
Sep-28-2017	110	21.2	674
Sep-29-2017	110	21.5	679
Sep-30-2017	113	21.4	662
Oct-01-2017	115	20.1	662
Oct-02-2017	115	17.8	665
Oct-03-2017	114	17.0	651
Oct-04-2017	115	17.0	638
Oct-05-2017	114	17.3	683
Oct-06-2017	115	17.6	674
Oct-07-2017	114	18.1	678
Oct-08-2017	110	18.0	733
Oct-09-2017	106	17.4	777
Oct-10-2017	104	17.4	811
Oct-11-2017	104	17.1	814
Oct-12-2017	107	15.5	754
Oct-13-2017	109	14.9	728
Oct-14-2017	109	15.1	769
Oct-15-2017	110	15.4	741
Oct-16-2017	112	15.9	759
Oct-17-2017	113	16.3	761
Oct-18-2017	111	16.6	750
Oct-19-2017	112	16.8	745
Oct-20-2017	114	16.9	744
Oct-21-2017	118	15.9	768
Oct-22-2017	117	15.8	809
Oct-23-2017	119	16.3	782
Oct-24-2017	123	17.0	715
Oct-25-2017	123	17.5	692
Oct-26-2017	122	18.1	703

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Oct-27-2017	123	18.5	719
Oct-28-2017	125	18.5	733
Oct-29-2017	125	18.2	785
Oct-30-2017	123	17.4	803
Oct-31-2017	120	16.1	853
Nov-01-2017	116	15.4	907
Nov-02-2017	115	15.0	857
Nov-03-2017	114	15.3	868
Nov-04-2017	112	15.6	938
Nov-05-2017	109	14.7	961
Nov-06-2017	109	13.6	920
Nov-07-2017	107	13.2	914
Nov-08-2017	106	13.1	949
Nov-09-2017	99	14.5	982
Nov-10-2017	97	15.2	969
Nov-11-2017	100	15.1	967
Nov-12-2017	101	14.6	1,020
Nov-13-2017	102	14.3	1,010
Nov-14-2017	100	15.2	1,000
Nov-15-2017	97	15.1	1,090
Nov-16-2017	96	15.3	1,130
Nov-17-2017	98	15.2	1,140
Nov-18-2017	102	13.7	1,080
Nov-19-2017	107	12.9	1,080
Nov-20-2017	109	13.6	1,080
Nov-21-2017	112	13.9	1,070
Nov-22-2017	112	13.9	1,090
Nov-23-2017	108	14.7	1,140
Nov-24-2017	110	15.8	1,090
Nov-25-2017	118	15.8	1,040
Nov-26-2017	121	15.4	1,110
Nov-27-2017	121	14.7	1,150
Nov-28-2017	123	13.3	1,110
Nov-29-2017	119	12.5	1,170
Nov-30-2017	107	11.9	1,270
Dec-01-2017	102	11.5	1,260
Dec-02-2017	97	11.4	1,290
Dec-03-2017	95	11.7	1,310
Dec-04-2017	96	10.2	1,300
Dec-05-2017	95	9.3	1,290
Dec-06-2017	96	8.9	1,290
Dec-07-2017	102	8.6	1,220
Dec-08-2017	105	8.6	1,240

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-09-2017	109	8.4	1,170
Dec-10-2017	119	8.2	1,100
Dec-11-2017	123	8.2	1,100
Dec-12-2017	122	8.1	1,160
Dec-13-2017	121	8.1	1,210
Dec-14-2017	126	8.0	1,130
Dec-15-2017	126	8.0	1,160
Dec-16-2017	124	8.5	1,220
Dec-17-2017	122	8.2	1,240
Dec-18-2017	123	8.0	1,170
Dec-19-2017	123	8.0	1,180
Dec-20-2017	121	9.2	1,190
Dec-21-2017	111	8.4	1,290
Dec-22-2017	105	7.6	1,300
Dec-23-2017	104	8.1	1,290
Dec-24-2017	115	8.4	1,140
Dec-25-2017	118	8.7	1,140
Dec-26-2017	122	9.2	1,140
Dec-27-2017	130	9.0	1,130
Dec-28-2017	127	8.9	1,150
Dec-29-2017	121	8.9	1,220
Dec-30-2017	129	8.9	1,220
Dec-31-2017	141	9.1	1,200

NOTES:

USGS data webpage

http://waterdata.usgs.gov/nwis/dv/?site_no=11261100&agency_cd=USGS&referred_module=sw

Table 5b. Monthly averages and totals

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
Jan-17	10,540	10.1	1,832
Feb-17	11,810	13.5	1,774
Mar-17	11,710	16.6	1,341
Apr-17	8,880	17.8	1,330
May-17	8,710	21.8	1,039
Jun-17	10,220	23.3	924
Jul-17	7,710	26.7	678
Aug-17	8,750	25.8	613
Sep-17	6,640	22.9	724
Oct-17	7,060	17.0	739
Nov-17	6,440	14.4	1,037
Dec-17	7,080	8.8	1,208

NOTES:

Table 5c. Other water quality monitoring in Salt Slough at Highway 165 (Station F)

PARAMETER	Physicals					Total Selenium	Total Boron
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity		
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L
Jan-03-2017							
Jan-12-2017	8.7	7.2	1,720	13.3	30.9	0.6	1.3
Jan-19-2017							
Jan-26-2017	10.7	8.0	1,403	12.8	18.2	0.6	1.5
Feb-02-2017	9.6	7.5	2,292	12.6	19.4	<0.4	1.2
Feb-09-2017	4.7	7.1	1,666	15.1	16.2	0.7	1.1
Feb-17-2017						0.8	1.2
Feb-23-2017	7.6	7.3	1500	16.2	28.2	0.889 U	1.2
Mar-03-2017	7.9	7.2	1,405	14.4	12.2		
Mar-10-2017	11.7	7.8	1,326	16.7	19.6	0.5	0.8
Mar-15-2017	7.1	7.1	1,494	21.4	10.5	<0.4	1.0
Mar-23-2017							
Mar-30-2017	6.6	7.6	1,550	18.0	17.5	<0.4	0.8
Apr-07-2017							
Apr-14-2017	7.5	6.6	1,615	16.7	25.2	<0.4	0.8
Apr-21-2017	6.9	6.7	1,246	18.8	29.9	<0.4	0.7
Apr-26-2017	8.9	7.9	1,428	18.9	34.3	0.4	0.7
May-04-2017	6.0	7.0	1,220	25.7	34.7	0.4	0.6
May-12-2017	8.7	6.6	980	19.8	68.3	<0.4	0.4
May-18-2017	6.8	7.1	1,065	18.3	80.8	<0.4	0.5
May-25-2017	5.2	7.6	1,170	23.6	118.0	<0.4	0.4
Jun-01-2017	7.0	5.2	876	24.0	102.0	<0.4	0.3
Jun-09-2017	3.5	6.1	1,361	21.6	58.7	<0.4	0.5
Jun-13-2017	9.1	7.3	922	20.5	59.9	<0.4	0.3
Jun-20-2017	5.6	7.2	827	28.6	62.7	<0.4	0.3
Jun-27-2017	6.9	7.0	814	25.0	54.1	<0.4	0.2
Jul-05-2017	7.1	7.4	628	25.8	133.0	<0.4	0.2
Jul-12-2017	6.3	6.8	589	25.6	120.0	<0.4	0.3
Jul-18-2017	8.2	6.6	647	25.6	130.0	<0.4	0.3
Jul-27-2017	7.7	6.3	815	24.7	126.0	<0.4	0.4
Aug-01-2017	6.1	7.0	638	25.6	72.7	<0.4	0.3
Aug-08-2017	8.8	6.6	579	24.5	118.0	<0.4	0.3
Aug-15-2017	5.9	6.6	602	23.1	100.0	<0.4	0.3
Aug-24-2017		7.0	595	24.5		<0.4	0.3
Sep-01-2017	9.4	7.1	724	25.0	90.7	0.4	0.3
Sep-08-2017	10.4	6.9	895	23.3	106.0	<0.4	0.4
Sep-15-2017		7.9	965	22.5	71.6	<0.4	0.4
Sep-22-2017	11.5	8.1	871	20.2	66.6	<.04	0.4
Sep-26-2017							
Oct-06-2017	6.6	7.9	750	20.1	58.2	<0.4	0.3
Oct-13-2017	0.0	7.8	760	17.5	58.6	<0.4	0.4
Oct-19-2017	12.1	7.8	824	17.7	69.5	<0.4	0.5
Oct-27-2017	6.7	7.7	792	20.0	57.1	<0.4	0.4
Oct-31-2017	11.0	7.0	837	15.9	59.3	<0.4	0.4
Nov-07-2017	9.8	7.7	1,745	14.6	68.6	0.6	0.5
Nov-17-2017	10.8	7.9	1,187	16.3	45.2	<0.4	0.6
Nov-22-2017	12.4	8.1	1,056	14.5	45.9	<0.4	0.6
Nov-29-2017		7.9	1,197	13.0	37.4	<0.4	0.6
Dec-07-2017	14.6	9.9	1,244	8.1	25.8	<0.4	0.6
Dec-15-2017							
Dec-21-2017	15.2	8.2	1,400	9.3	17.3	<0.4	0.7
Dec-27-2017	11.3	8.1	1,301	9.8	37.4	<0.4	0.6

NOTES:

Table 6a. Water monitoring in the San Joaquin River above Merced River confluence (Station H2)
 USGS Station Code: 11273400

PARAMETER	Flow	Estimate Flow (NEW - MST)	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	Calculated	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	cfs_estimate	°C	µS/cm	mg/L	units	NTU
Jan-01-2017	244		8.6	2,470	10.1	7.8	12.4
Jan-02-2017	233		8.8	2,520	10.1	7.8	12.2
Jan-03-2017	225		9.2	2,580	9.8	7.8	12.4
Jan-04-2017	224		10.2	2,550	9.4	7.7	15.8
Jan-05-2017	250		10.7	2,410	9.2	7.7	18.9
Jan-06-2017	370		9.1	2,460	9.9	7.8	18.4
Jan-07-2017	791		9.0	1,430	9.7	7.8	40.4
Jan-08-2017	1,050		10.3	1,010	9.1	7.7	62.0
Jan-09-2017	1,330		11.4	1,120	8.2	7.6	49.5
Jan-10-2017		2,474	12.4	731	6.9	7.4	89.7
Jan-11-2017		3,552	12.3	650	6.7	7.3	68.8
Jan-12-2017		6,190	11.9	690	6.4	7.2	45.4
Jan-13-2017		10,257	11.1	572	6.2	7.1	31.1
Jan-14-2017		12,176	10.3	488	6.5	7.1	25.7
Jan-15-2017		12,350	9.7	454	6.4	7.1	21.5
Jan-16-2017		11,780	9.0	409	6.6	7.0	19.9
Jan-17-2017		10,967	8.4	405	6.8	7.0	19.7
Jan-18-2017		11,187	8.3	404	7.3	7.0	20.8
Jan-19-2017		11,078	8.5	416	8.5	7.1	21.2
Jan-20-2017		11,399	9.4	440	8.3	7.1	19.4
Jan-21-2017		11,892	9.6	514	7.5	7.1	21.4
Jan-22-2017		13,019	9.7	553	8.6	7.3	34.2
Jan-23-2017		13,928	9.8	584	7.9	7.2	46.7
Jan-24-2017		14,095	9.7	509	7.2	7.1	45.3
Jan-25-2017		14,451	9.5	496	7.3	7.2	45.3
Jan-26-2017		13,500	9.6	514	7.5	7.2	40.7
Jan-27-2017		9,491	9.7	531	7.9	7.2	30.3
Jan-28-2017		9,882	9.8	545	8.4	7.2	24.2
Jan-29-2017		9,408	9.9	566	8.8	7.2	20.2
Jan-30-2017		9,047	10.3	563	9.2	7.3	18.6
Jan-31-2017		8,937	10.3	547	9.3	7.3	20.9
Feb-01-2017		8,737	10.4	491	9.2	7.2	18.8
Feb-02-2017		8,270	10.7	432	9.1	7.2	17.2
Feb-03-2017			11.9	435	9.2	7.2	14.7
Feb-04-2017		6,816	13.1	493	8.9	7.2	14.4
Feb-05-2017		6,366	13.4	534	8.4	7.2	14.1
Feb-06-2017		6,333	13.1	519	8.0	7.2	16.9
Feb-07-2017		6,466	13.1	504	8.0	7.2	
Feb-08-2017		6,480	13.7	560	6.9	7.1	
Feb-09-2017		7,059	13.9	640	5.8	7.1	
Feb-10-2017		8,564	14.2	590	6.1	7.1	20.6
Feb-11-2017		9,647	13.6	478	6.2	7.0	29.8
Feb-12-2017		10,532	12.9	435	6.6	7.0	36.2
Feb-13-2017		10,679	12.6	517	6.6	7.0	
Feb-14-2017		10,557	12.8	546	6.6	7.1	34.6
Feb-15-2017		10,593	13.1	572	6.7	7.1	31.8
Feb-16-2017		10,410	13.5	533	6.8	7.1	30.0
Feb-17-2017		11,234	13.2	547	7.9	7.2	37.8
Feb-18-2017		16,515	12.6	579	8.5	7.4	38.2
Feb-19-2017		16,843	12.6	588	7.7	7.3	28.9
Feb-20-2017		16,872	12.1	556	8.7	7.4	29.9
Feb-21-2017		16,541	12.8	594	8.5	7.3	24.5
Feb-22-2017		16,577	13.1	620	7.9	7.3	23.0
Feb-23-2017		15,863	12.5	601	8.0	7.3	24.7
Feb-24-2017		15,117	11.9	567	8.2	7.3	21.0
Feb-25-2017		14,062	11.8	562	8.3	7.3	20.2
Feb-26-2017		13,725	12.0	579	8.6	7.3	19.0
Feb-27-2017		13,221	12.4	592	8.7	7.4	17.8
Feb-28-2017		12,794	12.2	598	9.0	7.4	16.7
Mar-01-2017		12,302	12.1	586	9.2	7.4	15.4
Mar-02-2017		11,721	12.5	572	9.3	7.4	13.7
Mar-03-2017		11,262	13.1	561	9.3	7.4	12.5
Mar-04-2017		10,940	13.7	568	9.2	7.4	11.8
Mar-05-2017		10,556	13.6	581	9.1	7.4	11.4
Mar-06-2017		10,221	12.5	560	9.0	7.4	11.9
Mar-07-2017		9,694	12.5	522	9.1	7.4	11.5
Mar-08-2017		9,501	13.0	500	9.1	7.3	11.3
Mar-09-2017		9,221	14.1	476	8.9	7.3	11.1
Mar-10-2017		9,064	15.1	478	8.4	7.2	10.6
Mar-11-2017		8,935	15.7	475	8.0	7.2	10.0
Mar-12-2017		8,576	16.4	460	7.8	7.2	9.6
Mar-13-2017		8,119	16.9	480	7.6	7.2	9.4
Mar-14-2017		7,850	17.6	460	7.5	7.1	9.2
Mar-15-2017		7,698	18.2	446	7.2	7.1	8.7
Mar-16-2017		7,610	18.1	438	7.1	7.1	8.9
Mar-17-2017		7,654	18.2	439	7.1	7.1	9.1
Mar-18-2017		7,698	18.3	474	6.9	7.1	9.5
Mar-19-2017		7,431	17.5	481	6.8	7.1	9.7
Mar-20-2017		7,156	17.2	495	6.7	7.1	9.8

PARAMETER	Flow	Estimate Flow (NEW MST)	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	Calculated	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	cfs estimate	°C	µS/cm	mg/L	units	NTU
Mar-21-2017		7,129	16.8	453	7.3	7.2	14.2
Mar-22-2017		7,299	16.1	442	7.5	7.2	
Mar-23-2017		7,471	15.6	437	7.2	7.2	13.8
Mar-24-2017		7,423	15.8	466	7.5	7.2	15.4
Mar-25-2017		7,703	15.3	461	7.3	7.2	14.9
Mar-26-2017		7,848	16.0	481	7.8	7.2	15.6
Mar-27-2017		7,656	15.9	468	8.0	7.2	15.8
Mar-28-2017		7,364	15.5	450	8.6	7.4	18.0
Mar-29-2017		6,993	16.5	470	8.5	7.4	17.0
Mar-30-2017		6,504	17.6	478	8.4	7.4	15.6
Mar-31-2017		6,122	15.0	441	9.0	7.5	25.0
Apr-01-2017		5,986	15.5	449	8.9	7.5	21.6
Apr-02-2017		5,831	17.5	462	8.7	7.4	19.0
Apr-03-2017		5,392	18.0	455	8.7	7.4	18.4
Apr-04-2017		5,166	18.0	463	8.6	7.5	17.0
Apr-05-2017		4,932	19.2	451	8.5	7.4	14.6
Apr-06-2017		4,550	18.5	429	7.6	7.2	15.2
Apr-07-2017		4,400	16.0	422	7.8	7.2	18.0
Apr-08-2017		4,564	15.9	426	8.3	7.3	16.1
Apr-09-2017		4,797	16.0	427	8.6	7.3	15.9
Apr-10-2017		4,876	16.6	414	9.1	7.4	17.3
Apr-11-2017		5,254	17.3	413	9.0	7.4	17.4
Apr-12-2017		5,626	17.7	385	9.0	7.4	21.6
Apr-13-2017		5,817	17.5	338	9.0	7.4	24.0
Apr-14-2017		5,931	16.7	310	9.5	7.6	16.4
Apr-15-2017		5,961	16.3	296	9.7	7.6	15.8
Apr-16-2017		5,889	16.8	295	9.4	7.5	16.8
Apr-17-2017		5,762	16.1	299	8.6	7.3	24.6
Apr-18-2017		5,696	16.7	306	8.7	7.2	
Apr-19-2017		5,536	17.9	307	9.1	7.3	
Apr-20-2017		5,381	18.5	311	9.2	7.4	
Apr-21-2017		5,218	18.3	325	9.2	7.5	
Apr-22-2017		5,034	19.1	367	9.3	7.5	
Apr-23-2017		4,814	19.2	333	9.1	7.4	
Apr-24-2017		4,824	19.3	313	8.9	7.4	15.4
Apr-25-2017		4,959	18.6	287	8.6	7.3	16.8
Apr-26-2017		5,066	18.4	265	8.3	7.2	17.3
Apr-27-2017		4,950	18.8	267	8.4	7.1	17.8
Apr-28-2017		4,924	17.9	244	8.7	7.2	30.5
Apr-29-2017		4,863	16.6	228	9.0	7.2	29.3
Apr-30-2017		4,803	18.7	251	9.0	7.2	20.6
May-01-2017		4,733	20.0	252	8.6	7.2	18.0
May-02-2017		4,692	21.0	250	8.4	7.3	17.0
May-03-2017		4,654	22.9	257	8.0	7.2	15.3
May-04-2017		4,350	24.7	248	7.3	7.1	13.8
May-05-2017		3,927	24.1	233	6.8	7.0	15.2
May-06-2017		3,625	21.9	227	7.1	7.0	17.8
May-07-2017		3,286	20.7	220	7.4	7.0	19.7
May-08-2017		3,014	20.3	216	7.7	7.0	20.3
May-09-2017		2,928	20.8	220	7.8	7.0	20.9
May-10-2017		3,106	21.1	210	7.8	7.1	22.4
May-11-2017		3,202	21.2	213	7.7	7.1	25.0
May-12-2017		2,529	20.0	198	8.0	7.1	28.0
May-13-2017		2,404	19.1	189	8.1	7.2	28.8
May-14-2017		2,209	19.0	199	8.1	7.1	27.6
May-15-2017		2,570	19.1	223	8.1	7.1	27.9
May-16-2017		2,703	18.7	236	8.0	7.1	
May-17-2017		2,824	18.7	233	8.0	7.2	
May-18-2017		3,160	19.2	221	7.9	7.1	30.8
May-19-2017		2,929	20.4	246	7.5	7.1	37.1
May-20-2017		2,403	21.9	319	7.0	7.1	36.8
May-21-2017		1,892	23.2	346	6.6	7.1	38.0
May-22-2017		1,585	24.3	369	6.4	7.1	39.8
May-23-2017		1,385	25.0	381	6.4	7.1	45.6
May-24-2017		1,254	25.1	378	6.5	7.1	44.3
May-25-2017		1,252	23.9	351	6.6	7.2	38.0
May-26-2017		1,238	22.0	366	6.8	7.2	33.6
May-27-2017		1,139	21.3	397	7.2	7.2	29.4
May-28-2017		1,044	21.5	421	7.3	7.2	28.0
May-29-2017	2,320		22.4	455	7.0	7.2	30.3
May-30-2017	2,310		22.7	365	7.0	7.2	28.6
May-31-2017		1,551	23.3	215	7.0	7.2	21.6
Jun-01-2017		2,215	23.2	195	7.2	7.1	19.0
Jun-02-2017		2,786	22.8	161	7.6	7.0	
Jun-03-2017		3,417	23.0	157	7.9	7.0	
Jun-04-2017		4,053	23.1	133	8.1	7.0	
Jun-05-2017		4,467	22.7	113	8.2	6.9	
Jun-06-2017		4,787	23.3		8.2	6.9	
Jun-07-2017		4,942	23.0		8.0	6.9	
Jun-08-2017		4,978	21.2		7.8	6.8	
Jun-09-2017		5,092	20.9		8.2	6.8	

PARAMETER	Flow	Estimate Flow (NEW MST)	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	Calculated	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	cfs estimate	°C	µS/cm	mg/L	units	NTU
Jun-10-2017		5,114	20.7		8.4	6.8	
Jun-11-2017		5,052	20.4		8.5	6.8	
Jun-12-2017		5,021	20.1		8.7	6.9	
Jun-13-2017		5,014	20.6		8.8	6.9	
Jun-14-2017		5,088	21.6		8.5	6.9	
Jun-15-2017		5,301	22.6		8.3	6.8	
Jun-16-2017		6,484	23.7		8.0	6.7	
Jun-17-2017		7,000	25.1		7.7	6.7	
Jun-18-2017		8,048	26.2		7.4	6.7	
Jun-19-2017		5,900	27.7		7.1	6.7	
Jun-20-2017		4,475	28.3		6.9	6.8	
Jun-21-2017		4,468	28.2		6.9	6.9	
Jun-22-2017		4,434	28.5		6.8	6.8	
Jun-23-2017		4,643	28.3	96	6.5	6.7	25.4
Jun-24-2017		4,955	27.4	89	6.4	6.6	28.5
Jun-25-2017		5,028	26.7	84	6.4	6.6	29.7
Jun-26-2017		5,240	25.7	83	6.4	6.6	29.3
Jun-27-2017		5,680	24.9	81	6.4	6.5	28.1
Jun-28-2017		5,966	24.6	81	6.2	6.5	27.7
Jun-29-2017		5,946	24.8	81	6.0	6.5	28.3
Jun-30-2017		5,659	25.1	97	6.1	6.5	30.3
Jul-01-2017		4,926	25.3	123	6.4	6.6	34.2
Jul-02-2017		4,195	25.5	134	6.7	6.7	35.0
Jul-03-2017		3,698	25.9	156	6.7	6.8	40.7
Jul-04-2017		2,970	26.2	202	6.5	6.9	50.3
Jul-05-2017		2,298	26.5	255	6.4	6.9	56.6
Jul-06-2017		1,757	27.0	287	6.3	7.0	60.6
Jul-07-2017		1,437	27.1	265	6.4	7.0	58.8
Jul-08-2017		1,320	27.2	255	6.5	7.0	56.2
Jul-09-2017		1,250	27.2	256	6.6	7.0	51.2
Jul-10-2017		1,319	27.7	287	6.6	7.1	48.1
Jul-11-2017	1,720		28.3	395	6.5	7.1	50.0
Jul-12-2017	1,440		28.2	374	6.7	7.2	49.9
Jul-13-2017	1,410		28.0	305	6.9	7.2	48.8
Jul-14-2017	1,280		27.6	292	7.0	7.1	44.5
Jul-15-2017	1,150		27.3	354	6.9	7.2	35.7
Jul-16-2017	1,000		27.5	444	7.0	7.2	31.8
Jul-17-2017	799		28.0	539	7.4	7.3	30.6
Jul-18-2017	649		27.6	617	7.6	7.3	32.3
Jul-19-2017	533		27.0	765	7.8	7.4	31.8
Jul-20-2017	416		26.6	907	7.9	7.5	32.0
Jul-21-2017	336		26.6	1,160	8.6	7.5	29.7
Jul-22-2017	316		26.9	1,370	9.3	7.7	24.6
Jul-23-2017	326		27.8	1,430	9.9	7.8	20.1
Jul-24-2017	353		28.0	1,300	9.5	7.8	21.7
Jul-25-2017	340		27.3	1,130	9.0	7.7	23.8
Jul-26-2017	296		27.2	1,120	8.8	7.9	24.4
Jul-27-2017	269		27.4	1,160	8.8	7.8	24.3
Jul-28-2017	239		28.0	1,340	8.9	7.9	24.4
Jul-29-2017	230		27.8	1,370	9.2	7.9	19.1
Jul-30-2017	232		27.5	1,260	8.9	7.9	18.5
Jul-31-2017	254		27.5	1,180	8.7	7.8	23.7
Aug-01-2017	273		28.0	1,080	8.4	7.8	20.7
Aug-02-2017	303		29.3	1,050	8.2	7.8	19.4
Aug-03-2017	269		29.5	1,090	8.1	7.8	18.6
Aug-04-2017	249		27.5	1,150	6.5	7.6	18.8
Aug-05-2017	244		26.8	1,250	7.0	7.7	17.0
Aug-06-2017	258		27.3	1,160	7.6	7.7	16.6
Aug-07-2017	240		26.7	1,220	8.4	7.8	16.0
Aug-08-2017	237		26.7	1,080	8.8	7.9	16.3
Aug-09-2017	242		26.8	1,020	9.2	7.9	14.3
Aug-10-2017	271		26.9	968	8.3	7.8	19.5
Aug-11-2017	297		27.1	988	8.4	7.8	17.5
Aug-12-2017	277		27.5	1,020	7.9	7.8	19.0
Aug-13-2017	261		27.1	881	7.8	7.8	18.9
Aug-14-2017	277		27.0	996	7.7	7.8	19.6
Aug-15-2017	300		26.3	788	7.2	7.8	21.9
Aug-16-2017	314		25.9	717	7.5	7.8	20.2
Aug-17-2017	298		26.4	736	7.9	7.8	19.4
Aug-18-2017	277		26.9	787	8.0	7.8	20.8
Aug-19-2017	270		27.2	891	8.1	7.8	18.4
Aug-20-2017	281		26.8	914	8.2	7.9	18.0
Aug-21-2017	303		26.0	728	7.8	7.8	18.5
Aug-22-2017	302		25.8	686	8.0	7.8	19.1
Aug-23-2017	307		26.4	664	7.9	7.8	21.5
Aug-24-2017	306		26.5	656	7.7	7.7	22.1
Aug-25-2017	303		26.2	668	7.8	7.8	19.5
Aug-26-2017	299		26.6	742	7.9	7.8	19.2
Aug-27-2017	335		27.2	738	7.8	7.7	16.6
Aug-28-2017	343		27.8	704	7.6	7.7	17.9
Aug-29-2017	333		27.9	625	7.2	7.5	20.6

PARAMETER	Flow	Estimate Flow (NEW MST)	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	Calculated	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	cfs estimate	°C	µS/cm	mg/L	units	NTU
Aug-30-2017	306		27.3	654	7.2	7.4	
Aug-31-2017	285		26.6	662	7.3	7.3	
Sep-01-2017	360		26.8	754	7.2	7.3	
Sep-02-2017	556		27.3	788	7.3	7.6	
Sep-03-2017	511		28.3	818	7.3	7.6	
Sep-04-2017	512		27.6	830	7.0	7.5	
Sep-05-2017	467		27.8	919	7.6	7.8	
Sep-06-2017	479		28.1	919	7.6	7.9	
Sep-07-2017	516		26.5	951	7.6	7.9	
Sep-08-2017	537		25.1	877	8.3	8.0	36.6
Sep-09-2017	510		25.6	914	8.2	7.9	38.7
Sep-10-2017	519		25.8	837	8.0	7.9	39.7
Sep-11-2017	547		26.1	705	7.5	7.8	39.5
Sep-12-2017	522		26.3	792	7.4	7.7	40.9
Sep-13-2017	544		26.0	759	7.5	7.7	38.2
Sep-14-2017	537		24.8	717	7.7	7.8	39.9
Sep-15-2017	564		23.4	724	7.9	7.8	37.1
Sep-16-2017	598		22.9	695	8.1	7.8	35.9
Sep-17-2017	613		22.6	655	8.1	7.8	37.1
Sep-18-2017	628		22.2	663	8.2	7.8	36.1
Sep-19-2017	628		21.5	658	8.2	7.8	40.0
Sep-20-2017	603		21.2	633	8.3	7.8	43.4
Sep-21-2017	607		21.2	596	7.9	7.7	41.2
Sep-22-2017	568		20.3	527	7.8	7.7	47.1
Sep-23-2017	380		19.7	612	7.9	7.7	54.7
Sep-24-2017	323		19.3	673	8.1	7.7	54.0
Sep-25-2017	290		19.5	681	8.2	7.7	53.8
Sep-26-2017	248		20.3	711	8.1	7.7	54.2
Sep-27-2017	251		21.2	613	7.8	7.6	57.2
Sep-28-2017	283		21.9	666	7.8	7.6	47.3
Sep-29-2017	333		21.8	723	7.9	7.6	40.6
Sep-30-2017	401		21.2	691	8.0	7.7	36.1
Oct-01-2017	451		20.0	633	8.2	7.7	35.2
Oct-02-2017	474		17.8	617	8.7	7.7	36.9
Oct-03-2017	486		17.4	626	9.0	7.7	30.4
Oct-04-2017	489		17.5	588	9.0	7.7	33.2
Oct-05-2017	480		17.6	554	8.8	7.6	35.6
Oct-06-2017	432		17.8	602	8.9	7.7	30.8
Oct-07-2017	355		18.5	639	8.9	7.7	34.9
Oct-08-2017	394		18.2	620	8.8	7.7	33.3
Oct-09-2017	356		17.2	671	8.9	7.7	32.8
Oct-10-2017	255		17.9	760	8.7	7.7	34.3
Oct-11-2017	182		17.7	818	8.5	7.7	43.9
Oct-12-2017	188		15.8	795	9.0	7.8	42.6
Oct-13-2017	214		15.4	763	9.1	7.7	34.9
Oct-14-2017	221		15.6	741	9.1	7.7	33.8
Oct-15-2017	280		15.7	701	9.1	7.7	30.5
Oct-16-2017	371		16.0	634	9.0	7.6	28.6
Oct-17-2017	443		16.3	602	8.8	7.6	27.0
Oct-18-2017	470		16.5	596	8.6	7.6	27.4
Oct-19-2017	501		16.6	571	8.4	7.6	26.0
Oct-20-2017	539		16.9	582	8.2	7.5	26.9
Oct-21-2017	553		16.1	587	8.3	7.5	29.7
Oct-22-2017	566		15.9	600	8.5	7.6	29.7
Oct-23-2017	576		16.3	610	8.5	7.6	27.5
Oct-24-2017	502		17.2	642	8.4	7.6	27.7
Oct-25-2017	460		17.8	658	8.1	7.6	32.3
Oct-26-2017	419		18.3	686	7.8	7.6	33.3
Oct-27-2017	394		18.6	711	7.6	7.6	36.2
Oct-28-2017	366		18.8	777	7.5	7.6	39.2
Oct-29-2017	320		18.8	826	7.3	7.6	46.6
Oct-30-2017	328		18.2	842	7.4	7.6	47.9
Oct-31-2017	354		17.0	870	7.7	7.7	41.1
Nov-01-2017	369		16.4	903	8.0	7.7	
Nov-02-2017	372		15.9	914	7.9	7.7	
Nov-03-2017	375		15.9	912	7.9	7.7	
Nov-04-2017	374		16.2	902	7.9	7.7	
Nov-05-2017	367		15.3	892	8.2	7.7	
Nov-06-2017	359		14.4	919	8.5	7.7	
Nov-07-2017	356		14.1	924	8.7	7.9	
Nov-08-2017	355		13.9	888	8.7	7.9	44.4
Nov-09-2017	357		14.9	889	8.5	7.9	44.9
Nov-10-2017	355		15.3	915	8.3	7.8	44.2
Nov-11-2017	356		15.3	912	8.4	7.9	41.8
Nov-12-2017	361		15.0	880	8.5	7.9	45.2
Nov-13-2017	363		14.9	899	8.6	7.9	43.5
Nov-14-2017	363		15.8	909	8.4	7.8	43.2
Nov-15-2017	366		15.4	916	8.4	7.8	41.7
Nov-16-2017	371		15.4	909	8.2	7.8	44.9
Nov-17-2017	376		15.4	933	8.0	7.8	45.2
Nov-18-2017	369		14.3	973	8.4	7.8	37.5

PARAMETER	Flow	Estimate Flow (NEW MST)	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	Calculated	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	cfs estimate	°C	µS/cm	mg/L	units	NTU
Nov-19-2017	373		13.6	953	8.7	7.8	35.0
Nov-20-2017	378		14.1	963	8.6	7.7	38.9
Nov-21-2017	383		14.2	980	8.4	7.7	39.4
Nov-22-2017	390		14.2	963	8.4	7.7	40.0
Nov-23-2017	398		15.1	969	8.3	7.7	41.8
Nov-24-2017	394		16.0	1,000	8.1	7.6	39.0
Nov-25-2017	392		16.0	1,020	8.0	7.6	43.8
Nov-26-2017	399		15.7	1,000	7.8	7.6	46.0
Nov-27-2017	404		15.1	1,010	8.0	7.6	44.7
Nov-28-2017	402		13.9	1,020	8.5	7.6	38.4
Nov-29-2017	399		13.2	1,030	8.8	7.6	40.3
Nov-30-2017	385		12.6	1,060	9.1	7.6	35.5
Dec-01-2017	377		12.1	1,120	9.2	7.6	30.2
Dec-02-2017	375		11.9	1,140	9.3	7.6	31.4
Dec-03-2017	380		12.0	1,150	9.4	7.6	31.8
Dec-04-2017	386		10.3	1,140	10.0	7.7	26.7
Dec-05-2017	373		9.5	1,190	10.3	7.6	21.0
Dec-06-2017	358		9.2	1,190	10.3	7.6	20.2
Dec-07-2017	351		8.9	1,210	10.4	7.6	19.6
Dec-08-2017	346		8.9	1,250	10.5	7.6	18.2
Dec-09-2017	328		8.7	1,320	10.4	7.6	22.8
Dec-10-2017	325		8.7	1,300	10.5	7.6	22.2
Dec-11-2017	324		8.6	1,270	10.6	7.6	21.0
Dec-12-2017	322		8.6	1,290	10.6	7.6	19.8
Dec-13-2017	323		8.4	1,320	10.7	7.7	20.9
Dec-14-2017	316		8.5	1,350	10.7	7.7	18.8
Dec-15-2017	319		8.4	1,320	10.7	7.7	19.2
Dec-16-2017	333		8.7	1,340	10.7	7.8	31.4
Dec-17-2017	320		8.2	1,380	10.8	7.8	27.2
Dec-18-2017	317		8.3	1,380	10.8	7.8	21.6
Dec-19-2017	314		8.3	1,380	10.9	7.8	19.8
Dec-20-2017	313		9.4	1,380	10.6	7.8	24.8
Dec-21-2017	310		8.4	1,380	10.8	7.8	19.8
Dec-22-2017	308		7.7	1,400	11.0	7.8	18.1
Dec-23-2017	310		8.3	1,390	11.0	7.8	17.2
Dec-24-2017	314		8.6	1,400	10.7	7.7	18.0
Dec-25-2017	330		8.7	1,350	10.8	7.7	18.6
Dec-26-2017	331		9.2	1,370	10.7	7.7	22.0
Dec-27-2017	327		9.1	1,390	10.7	7.8	22.4
Dec-28-2017	331		9.1	1,390	10.7	7.8	22.2
Dec-29-2017	336		9.1	1,360	10.8	7.8	22.6
Dec-30-2017	336		9.0	1,360	10.8	7.8	25.1
Dec-31-2017	341		9.2	1,390	10.7	7.8	24.5

NOTES:

USGS data webpage

http://waterdata.usgs.gov/nwis/dv/?site_no=11273400&agency_cd=USGS&referred_module=sw

Table 6b. Monthly averages and totals

PARAMETER	Total Flow	Total Estimate Flow	Average Temperature	Average Specific Conductance	Average Dissolved Oxygen	Average pH	Average Turbidity
DATA SOURCE	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated
UNITS	acre-feet	acre-feet	°C	µS/cm	µS/cm	units	NTU
Jan-17	N/A	458,310	9.9	972	8.1	7.3	31.4
Feb-17	N/A	608,680	12.7	545	7.8	7.2	24.2
Mar-17	N/A	521,110	15.6	487	8.1	7.3	12.7
Apr-17	N/A	311,020	17.6	351	8.8	7.4	19.1
May-17	N/A	153,900	21.6	279	7.4	7.1	27.6
Jun-17	N/A	300,010	24.1	112	7.5	6.8	27.4
Jul-17	N/A	N/A	27.2	678	7.6	7.3	36.6
Aug-17	17,570	N/A	27.0	881	7.9	7.7	18.8
Sep-17	28,630	N/A	23.7	737	7.8	7.7	43.0
Oct-17	24,630	N/A	17.3	675	8.5	7.6	33.9
Nov-17	22,340	N/A	14.9	945	8.3	7.7	41.7
Dec-17	20,580	N/A	9.1	1,310	10.5	7.7	22.6

NOTES:

Table 7. 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-03-2017								
Jan-12-2017								
Jan-19-2017								
Jan-26-2017								
Feb-02-2017								
Feb-09-2017								
Feb-17-2017								
Feb-23-2017								
Mar-03-2017								
Mar-10-2017								
Mar-15-2017								
Mar-23-2017								
Mar-30-2017								
Apr-07-2017								
Apr-14-2017								
Apr-21-2017								
Apr-26-2017	9.0	7.2	600	18.5	28.9	<0.4	0.4	3
May-04-2017	8.4	7.9	569	27.0	31.9	<0.4	0.0	
May-12-2017	11.4	7.4	541	20.2	36.9	<0.4	0.3	
May-18-2017	8.3	7.9	586	19.5	48.0	<0.4	0.3	
May-25-2017	5.6	8.2	1,283	24.1		0.5	0.8	6
Jun-01-2017	2.4	6.2	1,415	23.6	83.5	0.6	1.0	
Jun-09-2017	4.6	7.9	280	21.4	26.9	<0.4	0.2	
Jun-13-2017	10.5	8.1	282	22.3	23.7	<0.4	0.2	
Jun-20-2017	8.5	7.8	257	29.5	33.4	<0.4	0.1	
Jun-27-2017	7.5	7.1	134	23.9	45.5	<0.4	0.1	1
Jul-05-2017	8.2	7.8	719	28.5	91.9	<0.4	0.4	
Jul-12-2017	7.4	7.5	217	27.7	91.1	<0.4	0.1	
Jul-18-2017	12.8	7.7	674	28.8	53.6	<0.4	0.2	
Jul-27-2017	8.7	8.3	1,984	25.2	176.0	0.7	1.6	11
Aug-01-2017	9.3	8.3	3,227	26.9	75.6	0.8	2.4	
Aug-08-2017	13.7	8.2	4,386	26.2	38.7	1.31 U	3.2	
Aug-15-2017	5.7	8.4	2,063	25.0	95.9	0.9	1.7	
Aug-24-2017		7.7	658	26.1		<0.4	0.3	5
Sep-01-2017	9.3	7.8	749	26.4	64.4	<0.4	0.3	
Sep-08-2017	10.7	8.0	923	24.9	47.4	<0.4	0.4	
Sep-15-2017		7.5	807	22.6	57.6	<0.4	0.4	
Sep-22-2017	10.6	7.6	569	20.8	48.1	0.4	0.3	
Sep-26-2017								
Oct-06-2017	7.7	7.7	716	18.4	40.2	<0.4	0.4	
Oct-13-2017		7.8	807	15.4	38.7	<0.4	0.4	
Oct-19-2017								
Oct-27-2017	8.1	7.6	768	18.8	37.6	<0.4	0.5	
Oct-31-2017	12.1	7.6	839	16.8	53.3	<0.4	0.5	5
Nov-07-2017	15.6	7.8	900	15.6	52.5	<0.4	0.5	
Nov-17-2017	10.6	7.6	932	15.8	48.3	<0.4	0.6	
Nov-22-2017	13.0	7.6	941	14.0	42.8	<0.4	0.6	
Nov-29-2017		7.5	1,041	12.9	50.7	<0.4	0.6	5
Dec-07-2017	14.5	7.7	1,187	9.1	22.5	<0.4	0.7	
Dec-15-2017	13.0	7.8	1,299	9.1	31.5	<0.4	0.7	
Dec-21-2017	15.8	7.8	1,347	8.2	20.4	<0.4	0.8	
Dec-27-2017	11.6	7.6	1,463	9.1	42.1	<0.4	0.8	7

NOTES: No data collected for January, February, March, and the majority of April due to inaccessible site from rain

Nutrients		
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N
DATA SOURCE	USBR	USBR
UNITS	mg/L	mg/L
Jan-26-2017		
Feb-23-2017		
Mar-30-2017		
Apr-26-2017	<0.010	0.09
May-25-2017	0.40 H, V	0.15
Jun-27-2017	0.01	0.12
Jul-27-2017	0.69	0.17 T
Aug-24-2017	0.31	0.11
Oct-31-2017	0.11	0.19
Nov-29-2017	0.33	0.16
Dec-27-2017	0.26T	0.11

NOTES:

**Table 8a. Water monitoring in the San Joaquin River at Fremont Ford (Station G)
USGS Station Code: 11261500**

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jan-01-2017	107	7.9	2,080
Jan-02-2017	103	8.2	2,140
Jan-03-2017	98.9	8.8	2,210
Jan-04-2017	99.9	9.9	2,200
Jan-05-2017	115	10.3	2,050
Jan-06-2017	176	8.4	1,680
Jan-07-2017	583	8.9	408
Jan-08-2017	742	10.1	518
Jan-09-2017	969	11.4	388
Jan-10-2017	2,300	12.7	218
Jan-11-2017	4,350	12.0	129
Jan-12-2017	7,710	11.6	129
Jan-13-2017	10,200	10.9	123
Jan-14-2017	11,100	10.0	109
Jan-15-2017	10,400	9.1	102
Jan-16-2017	9,300	8.9	106
Jan-17-2017	8,370	8.7	112
Jan-18-2017	7,980	8.6	111
Jan-19-2017	7,780	8.7	110
Jan-20-2017	7,970	9.2	117
Jan-21-2017	8,150	9.5	116
Jan-22-2017	9,050	9.7	114
Jan-23-2017	9,790	9.8	115
Jan-24-2017	9,940	9.6	109
Jan-25-2017	10,500	9.2	113
Jan-26-2017	10,400	9.3	118
Jan-27-2017	9,780	9.3	116
Jan-28-2017	8,900	9.3	124
Jan-29-2017	8,150	9.5	126
Jan-30-2017	7,780	9.6	123
Jan-31-2017	7,980	9.6	116
Feb-01-2017	8,270	9.8	111
Feb-02-2017	7,930	10.2	114
Feb-03-2017	6,740	11.3	129
Feb-04-2017	5,790	12.3	166
Feb-05-2017	5,550	12.6	169
Feb-06-2017	5,710	12.4	148
Feb-07-2017	5,990	12.3	131
Feb-08-2017	6,500	12.7	127
Feb-09-2017	8,430	13.2	122
Feb-10-2017	12,900	13.1	112

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-11-2017	16,700	12.3	110
Feb-12-2017	19,500	11.6	110
Feb-13-2017	19,700	11.5	110
Feb-14-2017	19,700	11.9	109
Feb-15-2017	19,700	12.2	100
Feb-16-2017	19,100	12.5	100
Feb-17-2017	18,000	12.0	100
Feb-18-2017	17,900	11.7	100
Feb-19-2017	18,300	11.5	100
Feb-20-2017	17,800	11.5	100
Feb-21-2017	16,800	12.3	100
Feb-22-2017	17,100	12.4	100
Feb-23-2017	17,400	11.6	100
Feb-24-2017	17,100	11.1	101
Feb-25-2017	16,600	11.0	100
Feb-26-2017	16,100	11.0	95
Feb-27-2017	15,600	11.4	90
Feb-28-2017	15,100	11.2	90
Mar-01-2017	14,600	11.0	86
Mar-02-2017	14,100	11.5	90
Mar-03-2017	13,700	12.0	86
Mar-04-2017	13,400	12.4	80
Mar-05-2017	13,000	12.1	80
Mar-06-2017	12,400	11.3	80
Mar-07-2017	12,100	11.4	80
Mar-08-2017	11,800	11.9	78
Mar-09-2017	11,400	12.8	78
Mar-10-2017	11,300	13.4	78
Mar-11-2017	11,100	13.8	76
Mar-12-2017	10,700	14.4	75
Mar-13-2017	10,400	14.8	70
Mar-14-2017	10,200	15.3	70
Mar-15-2017	10,100	15.8	70
Mar-16-2017	9,900	15.9	70
Mar-17-2017	9,860	15.9	70
Mar-18-2017	9,890	15.6	70
Mar-19-2017	9,480	15.1	77
Mar-20-2017	9,110	14.8	80
Mar-21-2017	9,060	14.9	75
Mar-22-2017	9,090	14.3	70
Mar-23-2017	9,140	14.2	72
Mar-24-2017	9,470	13.9	80
Mar-25-2017	9,770	13.6	70

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-26-2017	9,790	13.9	70
Mar-27-2017	9,570	14.3	70
Mar-28-2017	9,050	14.3	77
Mar-29-2017	8,470	15.4	80
Mar-30-2017	7,830	16.2	90
Mar-31-2017	7,250	14.7	102
Apr-01-2017	6,810	14.9	102
Apr-02-2017	6,420	16.3	102
Apr-03-2017	5,930	17.0	119
Apr-04-2017	5,550	17.0	117
Apr-05-2017	5,250	17.7	110
Apr-06-2017	5,020		
Apr-07-2017	4,860	15.6	110
Apr-08-2017	4,800	15.2	110
Apr-09-2017	4,830	15.0	100
Apr-10-2017	5,200	15.3	88
Apr-11-2017	5,820	15.6	80
Apr-12-2017	6,270	16.2	79
Apr-13-2017	6,580	16.4	70
Apr-14-2017	6,650	15.7	70
Apr-15-2017	6,570	15.3	66
Apr-16-2017	6,470	15.4	63
Apr-17-2017	6,370	15.1	70
Apr-18-2017	6,200	15.5	70
Apr-19-2017	5,970	16.4	70
Apr-20-2017	5,840	17.0	70
Apr-21-2017	5,730	17.3	70
Apr-22-2017	5,540	17.8	78
Apr-23-2017	5,420	18.0	80
Apr-24-2017	5,540	18.0	72
Apr-25-2017	5,800	17.3	60
Apr-26-2017	5,900	17.0	60
Apr-27-2017	5,880	17.6	60
Apr-28-2017	5,830	17.0	60
Apr-29-2017	5,810	16.1	60
Apr-30-2017	5,720	17.5	60
May-01-2017	5,580	18.8	60
May-02-2017	5,460	19.8	60
May-03-2017	5,280	21.2	66
May-04-2017	4,960	22.5	70
May-05-2017	4,370	22.4	75
May-06-2017	3,690	20.6	84
May-07-2017	3,080	19.4	97

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-08-2017	2,840	19.3	82
May-09-2017	2,890	20.5	78
May-10-2017	3,040	20.7	82
May-11-2017	3,160	20.1	96
May-12-2017	3,080	19.6	80
May-13-2017	2,770	18.6	74
May-14-2017	2,460	18.4	80
May-15-2017	2,330	18.4	80
May-16-2017	2,380	17.8	70
May-17-2017	2,420	17.9	69
May-18-2017	2,190	18.7	96
May-19-2017	1,830	19.8	165
May-20-2017	1,540	21.5	262
May-21-2017	1,320	23.5	292
May-22-2017	1,150	25.0	347
May-23-2017	1,050	26.0	359
May-24-2017	1,010	26.2	377
May-25-2017	952	24.9	374
May-26-2017	837	23.3	465
May-27-2017	726	22.5	572
May-28-2017	626	22.8	630
May-29-2017	576	23.4	655
May-30-2017	818	23.7	324
May-31-2017	1,320	23.0	126
Jun-01-2017	1,990	22.2	72
Jun-02-2017	2,800	21.7	71
Jun-03-2017	3,550	21.9	96
Jun-04-2017	4,040	21.7	
Jun-05-2017	4,340	21.2	
Jun-06-2017	4,570	21.4	
Jun-07-2017	4,750	21.3	
Jun-08-2017	4,830	20.1	
Jun-09-2017	4,750	19.4	
Jun-10-2017	4,700	19.6	
Jun-11-2017	4,630	19.3	
Jun-12-2017	4,550	18.6	
Jun-13-2017	4,660	19.1	
Jun-14-2017	4,850	20.1	
Jun-15-2017	5,000	21.0	
Jun-16-2017	5,080	21.9	
Jun-17-2017	5,070	23.2	
Jun-18-2017	4,950	24.3	
Jun-19-2017	4,820	25.4	

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-20-2017	4,740	26.0	
Jun-21-2017	4,810	26.0	
Jun-22-2017	4,970	26.2	
Jun-23-2017	5,250	26.0	
Jun-24-2017	5,550	25.2	
Jun-25-2017	5,860	24.6	
Jun-26-2017	6,310	24.0	
Jun-27-2017	6,860	23.3	
Jun-28-2017	7,170	23.0	
Jun-29-2017	6,800	23.3	
Jun-30-2017	5,760	23.6	
Jul-01-2017	4,750	23.8	
Jul-02-2017	3,900	24.1	
Jul-03-2017	2,690	24.9	95
Jul-04-2017	1,910	25.6	114
Jul-05-2017	1,620	26.2	158
Jul-06-2017	1,380	26.7	167
Jul-07-2017	1,280	27.0	153
Jul-08-2017	1,260	27.2	148
Jul-09-2017	1,220	27.2	147
Jul-10-2017	1,140	27.6	166
Jul-11-2017	983	28.0	239
Jul-12-2017	971	28.0	203
Jul-13-2017	1,060	27.5	150
Jul-14-2017	1,080	27.2	139
Jul-15-2017	994	27.1	193
Jul-16-2017	818	27.2	280
Jul-17-2017	634	27.7	384
Jul-18-2017	520	27.5	498
Jul-19-2017	431	27.0	632
Jul-20-2017	356	26.5	794
Jul-21-2017	298	26.6	1,050
Jul-22-2017	269	26.8	1,230
Jul-23-2017	258	27.5	1,250
Jul-24-2017	265	27.9	1,060
Jul-25-2017	282	27.2	891
Jul-26-2017	257	27.0	916
Jul-27-2017	246	27.2	1,060
Jul-28-2017	236	27.8	1,250
Jul-29-2017	235	27.6	1,160
Jul-30-2017	247	27.4	1,030
Jul-31-2017	286	27.3	919
Aug-01-2017	307	27.7	866

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-02-2017	330	28.9	851
Aug-03-2017	301	29.0	940
Aug-04-2017	287	27.3	1,030
Aug-05-2017	277	26.7	1,000
Aug-06-2017	275	27.0	952
Aug-07-2017	252	26.6	904
Aug-08-2017	251	26.5	754
Aug-09-2017	251	26.6	781
Aug-10-2017	273	26.7	771
Aug-11-2017	304	26.9	859
Aug-12-2017	285	27.2	834
Aug-13-2017	255	26.8	751
Aug-14-2017	272	26.7	687
Aug-15-2017	300	25.8	601
Aug-16-2017	303	25.4	576
Aug-17-2017	287	25.9	605
Aug-18-2017	269	26.5	657
Aug-19-2017	257	26.9	732
Aug-20-2017	264	26.5	678
Aug-21-2017	265	25.8	582
Aug-22-2017	273	25.6	553
Aug-23-2017	280	26.1	531
Aug-24-2017	293	26.1	498
Aug-25-2017	280	25.9	533
Aug-26-2017	263	26.2	586
Aug-27-2017	275	26.8	561
Aug-28-2017	277	27.4	510
Aug-29-2017	285	27.6	469
Aug-30-2017	264	27.2	530
Aug-31-2017	260	26.4	580
Sep-01-2017	241	26.5	676
Sep-02-2017	249	27.1	656
Sep-03-2017	241	28.0	664
Sep-04-2017	226	27.5	779
Sep-05-2017	223	27.7	789
Sep-06-2017	213	27.9	837
Sep-07-2017	216	26.4	802
Sep-08-2017	211	25.3	838
Sep-09-2017	205	25.7	802
Sep-10-2017	210	25.9	676
Sep-11-2017	209	26.2	634
Sep-12-2017	202	26.5	731
Sep-13-2017	212	26.0	650

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-14-2017	206	24.7	722
Sep-15-2017	208	23.6	671
Sep-16-2017	210	23.5	645
Sep-17-2017	208	23.3	645
Sep-18-2017	206	23.0	694
Sep-19-2017	221	22.1	610
Sep-20-2017	218	21.7	632
Sep-21-2017	228	21.6	579
Sep-22-2017	236	20.6	539
Sep-23-2017	236	19.7	541
Sep-24-2017	233	19.2	550
Sep-25-2017	227	19.4	532
Sep-26-2017	226	20.0	515
Sep-27-2017	232	20.9	493
Sep-28-2017	214	21.6	585
Sep-29-2017	206	21.8	619
Sep-30-2017	198	21.7	648
Oct-01-2017	196	20.5	645
Oct-02-2017	199	18.3	656
Oct-03-2017	210	18.0	617
Oct-04-2017	228	18.0	561
Oct-05-2017	233	18.0	541
Oct-06-2017	232	18.1	572
Oct-07-2017	227	18.6	559
Oct-08-2017	219	18.4	583
Oct-09-2017	209	17.6	635
Oct-10-2017	202	18.0	682
Oct-11-2017	203	17.6	693
Oct-12-2017	209	15.9	698
Oct-13-2017	213	15.6	640
Oct-14-2017	217	15.7	632
Oct-15-2017	217	15.8	662
Oct-16-2017	227	16.2	631
Oct-17-2017	231	16.5	621
Oct-18-2017	239	16.6	598
Oct-19-2017	229	16.9	627
Oct-20-2017	223	17.2	646
Oct-21-2017	229	16.3	646
Oct-22-2017	232	16.3	686
Oct-23-2017	229	16.8	718
Oct-24-2017	231	17.5	680
Oct-25-2017	240	17.9	634
Oct-26-2017	247	18.2	621

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Oct-27-2017	245	18.5	639
Oct-28-2017	242	18.7	677
Oct-29-2017	243	18.4	666
Oct-30-2017	241	17.8	685
Oct-31-2017	237	16.7	709
Nov-01-2017	232	16.3	752
Nov-02-2017	238	15.7	753
Nov-03-2017	233	15.7	750
Nov-04-2017	238	16.0	753
Nov-05-2017	242	15.1	764
Nov-06-2017	236	14.3	791
Nov-07-2017	241	13.9	743
Nov-08-2017	245	13.7	748
Nov-09-2017	248	14.5	758
Nov-10-2017	232	14.9	793
Nov-11-2017	239	14.9	754
Nov-12-2017	247	14.6	754
Nov-13-2017	246	14.6	795
Nov-14-2017	244	15.3	799
Nov-15-2017	255	15.0	760
Nov-16-2017	259	15.1	776
Nov-17-2017	252	15.2	810
Nov-18-2017	250	14.1	820
Nov-19-2017	253	13.5	810
Nov-20-2017	253	13.9	845
Nov-21-2017	255	13.9	834
Nov-22-2017	262	13.9	845
Nov-23-2017	263	14.7	863
Nov-24-2017	260	15.4	881
Nov-25-2017	265	15.5	861
Nov-26-2017	276	15.3	828
Nov-27-2017	283	14.8	849
Nov-28-2017	286	13.8	858
Nov-29-2017	289	13.2	839
Nov-30-2017	277	12.4	895
Dec-01-2017	264	11.9	947
Dec-02-2017	259	11.6	963
Dec-03-2017	264	11.7	941
Dec-04-2017	268	10.3	913
Dec-05-2017	256	9.5	944
Dec-06-2017	249	9.0	955
Dec-07-2017	247	8.7	972
Dec-08-2017	246	8.5	980

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-09-2017	242	8.3	1,040
Dec-10-2017	246	8.2	1,030
Dec-11-2017	254	8.1	994
Dec-12-2017	257	8.0	1,000
Dec-13-2017	258	7.9	1,030
Dec-14-2017	260	7.9	1,020
Dec-15-2017	270	7.8	980
Dec-16-2017	272	8.2	997
Dec-17-2017	267	7.8	1,040
Dec-18-2017	266	7.8	1,040
Dec-19-2017	270	7.8	1,000
Dec-20-2017	269	8.7	1,020
Dec-21-2017	266	7.9	1,020
Dec-22-2017	259	7.3	1,050
Dec-23-2017	252	7.8	1,060
Dec-24-2017	255	8.0	1,030
Dec-25-2017	267	8.0	953
Dec-26-2017	266	8.6	983
Dec-27-2017	267	8.4	982
Dec-28-2017	277	8.5	961
Dec-29-2017	278	8.5	972
Dec-30-2017	280	8.5	991
Dec-31-2017	288	8.7	967

NOTES:

USGS data webpage

http://waterdata.usgs.gov/nwis/dv/?site_no=11261500&agency_cd=USGS&referred_module=sw

Table 8b. Monthly averages and totals

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
Jan-17	378,600	9.6	527
Feb-17	777,550	11.8	112
Mar-17	648,660	13.9	77
Apr-17	346,280	16.4	80
May-17	150,220	21.3	205
Jun-17	293,580	22.5	80
Jul-17	63,230	26.9	568
Aug-17	17,090	26.7	702
Sep-17	13,030	23.8	658
Oct-17	13,840	17.4	641
Nov-17	15,070	14.6	803
Dec-17	16,140	8.6	993

NOTES:

Table 8c. Other water quality monitoring in the San Joaquin River at Fremont Ford (Station G)

PARAMETER	Physicals					Total Selenium	Total Boron
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity		
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L
Jan-03-2017							
Jan-12-2017	8.4	7.8	117	13.1	89.6	<0.4	0.0
Jan-19-2017							
Jan-26-2017	11.3	8.0	114	10.4	53.7	<0.4	0.0
Feb-02-2017	10.6	8.3	102	11.2	49.4	<0.4	0.0
Feb-09-2017	8.4	8.1	139	14.5	39.0	<0.4	0.0
Feb-17-2017						<0.4	0.0
Feb-23-2017	9.2	7.8	103	14.1	49.5	<0.4	<0.020
Mar-03-2017							
Mar-10-2017	10.5	7.3	79	14.6	25.2	<0.4	0.0
Mar-15-2017	10.3	7.7	88	19.0	61.9	<0.4	0.0
Mar-23-2017							
Mar-30-2017	9.6	7.0	99	16.8	34.8	<0.4	0.0
Apr-07-2017							
Apr-14-2017	10.8	8.6	105	16.4	28.1	<0.4	0.0
Apr-21-2017	10.1	8.8	95	18.3	23.2	<0.4	<0.020
Apr-26-2017	9.8	7.7	70	17.6	23.9	<0.4	0.0
May-04-2017	8.9	8.6	84	24.2	28.6	<0.4	0.3
May-12-2017	11.1	8.4	83	20.2	31.6	<0.4	0.0
May-18-2017	8.2	8.6	124	18.0	38.0	<0.4	0.0
May-25-2017	6.2	8.2	373	25.0	60.0	<0.4	0.1
Jun-01-2017	9.9	6.0	83	24.2	64.0	<0.4	<0.020
Jun-09-2017	4.9	8.6	66	19.4	29.6	<0.4	0.0
Jun-13-2017	10.9	8.3	55	19.9	30.0	<0.4	<0.020
Jun-20-2017	8.0	7.9	48	26.3	29.9	<0.4	<0.020
Jun-27-2017	7.6	7.6	51	23.0	31.1	<0.4	<0.020
Jul-05-2017	7.4	8.1	228	25.1	67.7	<0.4	0.1
Jul-12-2017	7.5	8.1	234	27.4	54.6	<0.4	0.1
Jul-18-2017	10.1	8.0	530	26.3	81.9	<0.4	0.2
Jul-27-2017	8.2	7.8	1,045	25.9	80.0	<0.4	0.3
Aug-01-2017	7.4	7.7	879	26.2	55.9	<0.4	0.3
Aug-08-2017	9.6	8.0	840	25.1	57.0	<0.4	0.2
Aug-15-2017	4.4	8.1	599	24.1	65.7	<0.4	0.2
Aug-24-2017		7.8	503	25.6		<0.4	0.2
Sep-01-2017	9.2	7.7	647	25.7	61.7	<0.4	0.2
Sep-08-2017	10.2	7.8	854	24.6	25.8	<0.4	0.3
Sep-15-2017		7.8	674	23.2	42.7	<0.4	0.2
Sep-22-2017	10.9	7.9	550	21.8	45.2	<0.4	0.2
Sep-26-2017							
Oct-06-2017	6.5	7.8	586	18.6	42.8	<0.4	0.2
Oct-13-2017		7.9	619	16.4	39.6	<0.4	0.3
Oct-19-2017	12.2	7.9	628	17.7	58.0	<0.4	0.3
Oct-27-2017	7.8	7.7	620	18.5	49.2	<0.4	0.3
Oct-31-2017	12.9	7.7	692	16.8	46.3	<0.4	0.3
Nov-07-2017	16.2	8.0	735	15.4	32.4	<0.4	0.3
Nov-17-2017	10.8	7.7	806	15.5	43.3	<0.4	0.3
Nov-22-2017	13.0	7.8	792	13.9	39.6	<0.4	0.3
Nov-29-2017		7.8	808	13.0	56.1	<0.4	0.4
Dec-07-2017	15.1	7.9	952	9.2	24.0	<0.4	0.4
Dec-15-2017	11.3	7.9	1,006	8.5	27.9	<0.4	0.4
Dec-21-2017	16.0	8.0	993	8.0	22.1	<0.4	0.4
Dec-27-2017	12.8	7.8	1,064	8.8	25.3	<0.4	0.4

NOTES:

Table 9a. 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-01-2017	476	8.2	1,480	0.7
Jan-02-2017	458	8.5	1,470	0.7
Jan-03-2017	447	8.8	1,470	
Jan-04-2017	448	9.7	1,460	0.6
Jan-05-2017	458	10.4	1,450	0.6
Jan-06-2017	500	9.2	1,450	
Jan-07-2017	775	9.0	1,310	
Jan-08-2017	1,180	10.1	919	
Jan-09-2017	2,170	11.5	790	0.9
Jan-10-2017	2,540	11.9	666	0.8
Jan-11-2017	4,180	12.3	579	<0.4
Jan-12-2017	5,240	12.0	517	0.4
Jan-13-2017	6,950	11.3	530	
Jan-14-2017	9,370	10.6	409	0.5
Jan-15-2017	10,900	9.8	299	0.4
Jan-16-2017	11,200	9.2	288	0.4
Jan-17-2017	10,700	8.6	302	0.4
Jan-18-2017	9,880	8.3	318	<0.4
Jan-19-2017	9,460	8.4	294	
Jan-20-2017	9,830	9.2	291	
Jan-21-2017	11,100	9.6	299	
Jan-22-2017	12,000	9.8	308	
Jan-23-2017	13,800	9.8	301	
Jan-24-2017	14,000	9.7	290	
Jan-25-2017	14,100	9.5	268	
Jan-26-2017	14,300	9.5	272	<0.4
Jan-27-2017	14,100	9.5	274	
Jan-28-2017	13,300	9.6	274	
Jan-29-2017	12,300	9.7	289	
Jan-30-2017	11,300	9.9	303	
Jan-31-2017	10,800	10.0	304	
Feb-01-2017	10,800	10.1	284	
Feb-02-2017	11,000	10.3	263	<0.4
Feb-03-2017	10,700	11.3	262	
Feb-04-2017	9,790	12.2	264	
Feb-05-2017	8,870	12.5	282	
Feb-06-2017	8,460	12.3	302	
Feb-07-2017	8,850	12.3	316	
Feb-08-2017	10,300	12.8	322	
Feb-09-2017	11,500	12.9	329	<0.4
Feb-10-2017	15,400	13.3	294	
Feb-11-2017	19,900	12.8	241	
Feb-12-2017	22,500	12.3	213	
Feb-13-2017	23,400	11.8	198	
Feb-14-2017	23,500	11.7	222	
Feb-15-2017	23,500	12.0	224	
Feb-16-2017	23,400	12.3	210	
Feb-17-2017	23,200	12.3	207	<0.4

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Feb-18-2017	23,700	11.9	233	
Feb-19-2017	23,400	11.7	242	
Feb-20-2017	23,400	11.5	206	
Feb-21-2017	23,700	12.0	236	
Feb-22-2017	22,700	12.5	265	
Feb-23-2017	22,600	12.0	293	<0.4
Feb-24-2017	22,800	11.3	276	
Feb-25-2017	22,900	11.1	269	
Feb-26-2017	22,400	11.1	260	
Feb-27-2017	22,000	11.5	280	
Feb-28-2017	21,700	11.5	285	
Mar-01-2017	21,400	11.4	270	
Mar-02-2017	21,000	11.6	271	
Mar-03-2017	20,700	12.0	249	
Mar-04-2017	20,500	12.4	254	
Mar-05-2017	20,200	12.4	256	
Mar-06-2017	19,600	11.7	275	
Mar-07-2017	19,200	11.6	261	
Mar-08-2017	19,200	11.9	228	
Mar-09-2017	19,000	12.7	253	
Mar-10-2017	18,900	13.5	270	<0.4
Mar-11-2017	18,800	14.0	252	
Mar-12-2017	18,600	14.5	273	
Mar-13-2017	18,300	14.8	240	
Mar-14-2017	18,100	15.3	273	
Mar-15-2017	17,900	15.7	240	<0.4
Mar-16-2017	17,600	15.8	232	
Mar-17-2017	17,400	15.9	246	
Mar-18-2017	17,300	15.7	232	
Mar-19-2017	17,100	15.2	235	
Mar-20-2017	16,700	15.0	246	
Mar-21-2017	16,700	14.9	238	
Mar-22-2017	16,600	14.5	218	
Mar-23-2017	16,300	14.2	242	
Mar-24-2017	16,500	14.2	233	
Mar-25-2017	17,000	13.8	230	
Mar-26-2017	17,100	14.2	226	
Mar-27-2017	17,000	14.4	228	
Mar-28-2017	16,700	14.3	228	
Mar-29-2017	16,400	14.9	242	
Mar-30-2017	15,600	15.7	244	<0.4
Mar-31-2017	14,700	14.4	250	
Apr-01-2017	14,100	14.4	256	
Apr-02-2017	13,300	15.6	264	
Apr-03-2017	12,700	16.0	256	
Apr-04-2017	12,100	16.0	252	
Apr-05-2017	11,400	16.6	262	
Apr-06-2017	10,800	16.2	257	
Apr-07-2017	10,400	14.7	255	
Apr-08-2017	10,200	14.1	263	
Apr-09-2017	9,780	14.3	270	

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Apr-10-2017	9,460	14.9	272	
Apr-11-2017	9,820	15.5	252	
Apr-12-2017	10,600	16.1	234	
Apr-13-2017	11,200	16.3	212	
Apr-14-2017	11,700	15.8	199	<0.4
Apr-15-2017	11,800	15.4	180	
Apr-16-2017	11,700	15.4	178	
Apr-17-2017	11,700	14.9	173	
Apr-18-2017	11,600	15.2	176	
Apr-19-2017	11,300	16.0	179	
Apr-20-2017	11,000	16.7	191	
Apr-21-2017	10,900	16.7	206	<0.4
Apr-22-2017	10,900	17.0	215	
Apr-23-2017	10,800	17.0	214	
Apr-24-2017	10,800	17.0	205	
Apr-25-2017	11,000	16.7	196	
Apr-26-2017	11,300	16.5	188	<0.4
Apr-27-2017	11,600	16.7	185	
Apr-28-2017	11,600	16.5	197	
Apr-29-2017	11,500	15.7	200	
Apr-30-2017	11,600	16.6	208	
May-01-2017	11,400	17.6	207	
May-02-2017	11,200	18.5	210	
May-03-2017	11,100	19.6	220	
May-04-2017	10,800	20.7	226	<0.4
May-05-2017	10,300	20.5	238	
May-06-2017	9,650	19.1	261	
May-07-2017	8,840	17.9	280	
May-08-2017	8,130	17.6	295	
May-09-2017	7,730	17.9	305	
May-10-2017	7,620	18.2	312	
May-11-2017	7,380	18.5	320	
May-12-2017	7,180	18.0	318	<0.4
May-13-2017	7,070	17.2	305	
May-14-2017	6,890	16.8	296	
May-15-2017	6,650	16.9	290	
May-16-2017	6,500	16.7	284	
May-17-2017	6,350	16.7	285	
May-18-2017	6,140	17.0	283	<0.4
May-19-2017	5,400	18.4	282	
May-20-2017	4,660	19.6	284	
May-21-2017	4,150	20.7	290	
May-22-2017	3,830	21.4	294	
May-23-2017	3,560	21.9	297	
May-24-2017	3,390	21.8	298	
May-25-2017	3,270	21.3	300	<0.4
May-26-2017	3,310	19.8	301	
May-27-2017	3,230	18.9	300	
May-28-2017	3,110	18.9	301	
May-29-2017	2,870	19.7	295	
May-30-2017	2,750	20.1	296	

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
May-31-2017	2,930	20.7	303	
Jun-01-2017	3,110	21.5	308	<0.4
Jun-02-2017	3,440	22.2	308	
Jun-03-2017	3,930	22.6	303	
Jun-04-2017	4,450	22.8	302	
Jun-05-2017	4,930	22.6	304	
Jun-06-2017	5,240	22.9	298	
Jun-07-2017	5,420	22.9	293	
Jun-08-2017	5,520	21.7	285	
Jun-09-2017	5,580	20.6	290	<0.4
Jun-10-2017	5,620	20.6	297	
Jun-11-2017	5,600	20.3	299	
Jun-12-2017	5,590	20.0	299	
Jun-13-2017	5,640	20.3	298	<0.4
Jun-14-2017	5,830	21.1	288	
Jun-15-2017	6,360	21.7	280	
Jun-16-2017	6,830	22.3	274	
Jun-17-2017	7,040	23.5	273	
Jun-18-2017	7,100	24.4	276	
Jun-19-2017	7,060	25.6	282	
Jun-20-2017	6,980	26.3	278	<0.4
Jun-21-2017	6,930	26.4	257	
Jun-22-2017	7,000	26.5	274	
Jun-23-2017	7,220	26.3	286	
Jun-24-2017	7,280	26.1	285	
Jun-25-2017	7,390	25.7	284	
Jun-26-2017	7,730	25.0	281	
Jun-27-2017	8,020	24.3	271	<0.4
Jun-28-2017	7,990	24.2	261	
Jun-29-2017	7,910	24.5	256	
Jun-30-2017	7,540	24.7	252	
Jul-01-2017	6,910	25.0	251	
Jul-02-2017	6,780	24.4	251	
Jul-03-2017	6,440	23.9	248	
Jul-04-2017	5,490	23.8	243	
Jul-05-2017	4,510	24.0	234	<0.4
Jul-06-2017	3,800	24.1	223	
Jul-07-2017	3,370	24.3	217	
Jul-08-2017	3,200	24.3	215	
Jul-09-2017	3,140	24.3	222	
Jul-10-2017	3,040	24.5		
Jul-11-2017	2,510	25.3	175	
Jul-12-2017	2,160	25.9	173	<0.4
Jul-13-2017	2,110	26.1	175	
Jul-14-2017	2,000	26.3	177	
Jul-15-2017	1,900	26.3	178	
Jul-16-2017	1,770	26.3	179	
Jul-17-2017	1,590	26.6	181	
Jul-18-2017	1,390	26.3	182	<0.4
Jul-19-2017	1,230	25.5	182	
Jul-20-2017	1,090	25.1	184	

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jul-21-2017	954	25.0	188	
Jul-22-2017	879	25.2	189	
Jul-23-2017	894	25.9	194	
Jul-24-2017	887	26.3	198	
Jul-25-2017	849	26.2	202	
Jul-26-2017	805	25.9	204	
Jul-27-2017	769	25.9	206	<0.4
Jul-28-2017	726	26.0	210	
Jul-29-2017	700	26.1	217	
Jul-30-2017	675	25.9	218	
Jul-31-2017	694	26.2	221	
Aug-01-2017	695	26.6	221	<0.4
Aug-02-2017	749	27.6	276	
Aug-03-2017	719	28.3	248	
Aug-04-2017	675	27.1	223	
Aug-05-2017	686	25.6	224	
Aug-06-2017	697	25.7	230	
Aug-07-2017	656	25.7	223	
Aug-08-2017	630	25.5	245	<0.4
Aug-09-2017	622	25.7	321	
Aug-10-2017	675	25.5	407	
Aug-11-2017	677	25.8	415	
Aug-12-2017	720	26.2	500	
Aug-13-2017	703	26.0	522	
Aug-14-2017	665	25.8	487	
Aug-15-2017	665	25.5	496	<0.4
Aug-16-2017	668	25.3	511	
Aug-17-2017	683	25.6	536	
Aug-18-2017	649	25.9	542	
Aug-19-2017	653	26.2	609	
Aug-20-2017	635	26.0	596	
Aug-21-2017	635	25.5	578	
Aug-22-2017	616	25.0	565	
Aug-23-2017	632	25.4	588	
Aug-24-2017	603	25.8	568	<0.4
Aug-25-2017	608	25.6	564	
Aug-26-2017	639	25.5	578	
Aug-27-2017	671	26.3	594	
Aug-28-2017	678	27.0	531	
Aug-29-2017	648	27.2	512	
Aug-30-2017	613	26.5	515	
Aug-31-2017	625	25.5	523	
Sep-01-2017	671	25.5	522	<0.4
Sep-02-2017	888	25.8	437	
Sep-03-2017	1,010	25.1	377	
Sep-04-2017	994	24.8	374	
Sep-05-2017	943	24.6	356	
Sep-06-2017	968	24.9	372	
Sep-07-2017	1,010	24.2	378	
Sep-08-2017	1,080	22.9	364	<0.4
Sep-09-2017	1,090	22.8	354	

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Sep-10-2017	1,130	22.9	353	
Sep-11-2017	1,170	23.1	318	
Sep-12-2017	1,160	23.2	290	
Sep-13-2017	1,200	23.0	294	
Sep-14-2017	1,210	22.5	300	
Sep-15-2017	1,240	21.5	297	<0.4
Sep-16-2017	1,330	20.7	283	
Sep-17-2017	1,360	20.3	259	
Sep-18-2017	1,420	19.9	243	
Sep-19-2017	1,430	19.3	232	
Sep-20-2017	1,430	19.0	230	
Sep-21-2017	1,410	19.0	232	
Sep-22-2017	1,450	18.4	234	<0.4
Sep-23-2017	1,250	18.2	232	
Sep-24-2017	1,130	18.1	234	
Sep-25-2017	1,090	18.2	236	
Sep-26-2017	1,030	18.7	239	
Sep-27-2017	1,040	19.4	247	
Sep-28-2017	1,110	20.0	277	
Sep-29-2017	1,220	19.9	283	
Sep-30-2017	1,320	19.4	257	
Oct-01-2017	1,430	18.5	240	
Oct-02-2017	1,510	17.0	225	
Oct-03-2017	1,540	16.4	217	
Oct-04-2017	1,570	16.1	217	
Oct-05-2017	1,580	16.1	214	
Oct-06-2017	1,570	16.3	213	<0.4
Oct-07-2017	1,450	16.6	216	
Oct-08-2017	1,520	16.8	220	
Oct-09-2017	1,540	16.1	220	
Oct-10-2017	1,380	16.5	222	
Oct-11-2017	1,220	16.6	222	
Oct-12-2017	1,220	15.4	225	
Oct-13-2017	1,280	15.1	253	<0.4
Oct-14-2017	1,310	14.9	272	
Oct-15-2017	1,430	14.9	267	
Oct-16-2017	1,600	15.0	244	
Oct-17-2017	1,750	15.0	225	
Oct-18-2017	1,850	15.2	217	
Oct-19-2017	1,930	15.3	215	<0.4
Oct-20-2017	1,980	15.4	211	
Oct-21-2017	2,040	15.1	211	
Oct-22-2017	2,040	14.9	211	
Oct-23-2017	2,040	15.0	212	
Oct-24-2017	1,990	15.6	222	
Oct-25-2017	1,910	16.1	236	
Oct-26-2017	1,770	16.6	248	
Oct-27-2017	1,650	16.9	249	<0.4
Oct-28-2017	1,530	17.0	232	
Oct-29-2017	1,270	17.2	231	
Oct-30-2017	1,130	17.1	260	

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Oct-31-2017	1,070	16.6	318	<0.4
Nov-01-2017	1,030	16.1	441	
Nov-02-2017	1,020	15.8	451	
Nov-03-2017	1,030	15.7	467	
Nov-04-2017	1,010	15.9	448	
Nov-05-2017	958	15.3	392	
Nov-06-2017	890	14.6	317	
Nov-07-2017	853	14.3	279	<0.4
Nov-08-2017	831	14.1	254	
Nov-09-2017	824	14.8	251	
Nov-10-2017	828	15.2	256	
Nov-11-2017	809	15.3	244	
Nov-12-2017	818	15.0	253	
Nov-13-2017	819	14.9	266	
Nov-14-2017	816	15.6	294	
Nov-15-2017	813	15.5	303	
Nov-16-2017	818	15.3	353	
Nov-17-2017	827	15.3	426	<0.4
Nov-18-2017	808	14.5	361	
Nov-19-2017	809	13.8	375	
Nov-20-2017	812	14.0	399	
Nov-21-2017	812	14.3	415	
Nov-22-2017	814	14.2	431	<0.4
Nov-23-2017	830	14.9	506	
Nov-24-2017	820	15.7	473	
Nov-25-2017	810	16.0	446	
Nov-26-2017	811	15.7	463	
Nov-27-2017	818	15.3	512	
Nov-28-2017	812	14.2	504	
Nov-29-2017	805	13.4	491	<0.4
Nov-30-2017	779	12.8	373	
Dec-01-2017	756	12.4	302	
Dec-02-2017	743	12.1	287	
Dec-03-2017	741	12.2	352	
Dec-04-2017	739	10.9	423	
Dec-05-2017	729	9.9	445	
Dec-06-2017	714	9.7	403	
Dec-07-2017	698	9.4	362	<0.4
Dec-08-2017	684	9.4	326	
Dec-09-2017	663	9.2	288	
Dec-10-2017	657	9.2	288	
Dec-11-2017	653	9.1	291	
Dec-12-2017	647	9.0	295	
Dec-13-2017	643	8.9		
Dec-14-2017	639	8.8		
Dec-15-2017	634	8.8		
Dec-16-2017	656	9.0		
Dec-17-2017	653	8.6		
Dec-18-2017	647	8.7	453	
Dec-19-2017	641	8.6	452	
Dec-20-2017	639	9.4	469	

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Dec-21-2017	632	9.0	497	<0.4
Dec-22-2017	635	8.2	538	
Dec-23-2017	640	8.4	575	
Dec-24-2017	643	8.9	622	
Dec-25-2017	658	9.1	713	
Dec-26-2017	662	9.5	766	
Dec-27-2017	654	9.4	793	<0.4
Dec-28-2017	651	9.3	812	
Dec-29-2017	656	9.3	841	
Dec-30-2017	659	9.2	859	
Dec-31-2017	663	9.3	893	

NOTES: Autosampler only running at the beginning of January; selenium values shown are from weekly grab samples
USGS data webpage

http://waterdata.usgs.gov/nwis/dv/?site_no=11274550&agency_cd=USGS&referred_module=sw

Table 9b. 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-17	472,590	9.8	628	0.5
Feb-17	1,024,220	11.9	260	0.4
Mar-17	1,106,990	14.0	246	0.4
Apr-17	671,730	15.9	220	0.4
May-17	391,520	19.0	283	0.4
Jun-17	369,490	23.3	285	0.4
Jul-17	145,320	25.4	205	0.4
Aug-17	40,640	26.0	450	0.4
Sep-17	68,990	21.5	303	0.4
Oct-17	97,390	16.0	232	0.4
Nov-17	50,650	14.9	381	0.4
Dec-17	41,120	9.4	513	0.4

NOTES:

Table 9c. 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-03-2017								
Jan-12-2017	8.7	7.7	513	12.3	133	0.6	0.4	
Jan-19-2017								
Jan-26-2017	12.9	8.2	255	10.8	41.4	<0.4	0.2	2
Feb-02-2017	11.7	6.5	239	10.8	21.3	<0.4	0.2	
Feb-09-2017	8.5	6.7	301	13.4	51.8	<0.4	0.2	
Feb-17-2017						<0.4	0.1	
Feb-23-2017	10.5	8.2	224	13.7	48.6	<0.4	0.1	<2.0
Mar-03-2017								
Mar-10-2017	10.1	7.3	170	15.1	17.8	<0.4	0.1	
Mar-15-2017	11.5	8.0	185	19.4	46.4	<0.4	0.1	
Mar-23-2017								
Mar-30-2017	9.9	7.7	207	17.7	20.4	<0.4	0.1	1
Apr-07-2017								
Apr-14-2017	10.7	8.3	138	16.0	36.4	<0.4	0.1	
Apr-21-2017	10.6	8.2	159	17.1	14.1	<0.4	0.1	
Apr-26-2017	9.3	6.6	131	16.8	16.8	<0.4	0.0	<1.0
May-04-2017	9.2	8.1	137	21.7	18.9	<0.4	0.0	
May-12-2017	12.6	8.1	137	18.1	25.7	<0.4	0.0	
May-18-2017	8.5	8.1	191	16.9	27.4	<0.4	0.1	
May-25-2017	7.0	8.1	290	21.4		<0.4	0.1	2
Jun-01-2017	9.9	5.9	182	22.4	63.0	<0.4	0.1	
Jun-09-2017	4.5	7.9	127	20.2	32.9	<0.4	0.1	
Jun-13-2017	9.4	7.9	98	20.5	27.4	<0.4	0.0	
Jun-20-2017	8.2	7.4	115	26.6	23.5	<0.4	0.0	
Jun-27-2017	7.4	7.0	78	23.8	35.9	<0.4	0.0	<1.0
Jul-05-2017	7.8	7.9	167	24.4	58.4	<0.4	0.1	
Jul-12-2017	7.7	7.4	345	25.8	65.2	<0.4	0.1	
Jul-18-2017	10.1	7.8	524	25.9	532.0	<0.4	0.2	
Jul-27-2017	9.1	8.0	888	25.0	55.1	<0.4	0.4	4
Aug-01-2017	8.4	8.1	949	26.2	42.3	<0.4	0.3	
Aug-08-2017	10.1	8.2	849	25.4	33.8	<0.4	0.3	
Aug-15-2017	4.2	8.2	740	25.1	31.0	<0.4	0.3	
Aug-24-2017		7.7	612	26.4		<0.4	0.2	3
Sep-01-2017	9.6	7.7	507	25.6	31.0	<0.4	0.2	
Sep-08-2017	10.4	8.2	325	23.1	22.6	<0.4	0.1	
Sep-15-2017		6.6	266	21.5	19.6	<0.4	0.1	
Sep-22-2017	10.9	7.1	220	17.9	18.8	<0.4	0.1	
Sep-26-2017								
Oct-06-2017	8.4	6.8	185	16.2	18.3	<0.4	0.1	
Oct-13-2017		7.6	296	15.6	16.1	<0.4	0.1	
Oct-19-2017	14.0	7.8	188	16.9	25.0	<0.4	0.1	
Oct-27-2017	6.9	7.4	265	16.8	16.5	<0.4	0.1	
Oct-31-2017	12.0	7.6	524	16.6	43.6	<0.4	0.3	3
Nov-07-2017	15.3	8.0	664	15.1	111.0	<0.4	0.3	
Nov-17-2017	10.7	7.1	711	16.1	22.6	<0.4	0.4	
Nov-22-2017	12.3	7.1	725	14.2	23.4	<0.4	0.4	
Nov-29-2017		8.0	812	13.1	23.7	<0.4	0.4	4
Dec-07-2017	13.9	7.3	907	9.8	14.9	<0.4	0.5	
Dec-15-2017								
Dec-21-2017	13.1	7.7	1,024	9.1	14.8	<0.4	0.6	
Dec-27-2017	10.3	7.4	1,153	9.8	15.9	<0.4	0.5	5

NOTES:

Nutrients		
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N
DATA SOURCE	USBR	USBR
UNITS	mg/L	mg/L
Jan-26-2017	0.65	0.20
Mar-30-2017	0.19	0.08
Apr-26-2017		0.06
May-25-2017	0.34 H,V	0.09
Jun-27-2017	0.13	0.11
Jul-27-2017	2.2	0.14 T
Aug-24-2017	2.5	0.06
Oct-31-2017	1.6	0.09
Nov-29-2017	1.8	0.16
Dec-27-2017	1.6T	0.10

NOTES:

Table 10. New WDR Summary of fathead minnow (*Pimephales promelas*) larvae survival

LOCATION	Station B3	Station D	Station F	Station R	Lab Water Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%
January-17	N/A	100%	N/A	N/A	100%
February-17	N/A	98%	N/A	N/A	100%
March-17	98%	100%	100%	N/A	98%
April-17	N/A	98%	N/A	N/A	100%
May-17	N/A	98%	N/A	N/A	100%
June-17	100%	100%	100%	100%	100%
July-17	N/A	100%	N/A	N/A	100%
August-17	N/A	100%	N/A	N/A	100%
September-17	100%	100%	98%	100%	100%
October-17	N/A	100%	N/A	N/A	100%
November-17	100%	100%	100%	100%	100%
December-17	N/A	100%	N/A	N/A	N/A

Table 11. New WDR Summary of *Daphnia magna* survival in 7-day tests

LOCATION	Station B3	Station D	Station F	Station R	Lab Water Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%
January-17	N/A	100%	N/A	N/A	100%
February-17	N/A	100%	N/A	N/A	100%
March-17	100%	100%	100%	N/A	100%
April-17	N/A	100%	N/A	N/A	100%
May-17	N/A	100%	N/A	N/A	100%
June-17	100%	100%	100%	100%	100%
July-17	N/A	100%	N/A	N/A	100%
August-17	N/A	100%	N/A	N/A	100%
September-17	100%	100%	100%	100%	100%
October-17	N/A	95%	N/A	N/A	95%
November-17	100%	90%	80%	95%	100%
December-17	N/A	100%	N/A	N/A	95%

Table 12. New WDR Summary of *Selenastrum capricornutum* growth in 4-day tests

LOCATION	Station B3	Station D	Station F	Station R	Lab Water Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	cells/mL x 10 ⁶	cells/mL x 10 ⁶	cells/mL x 10 ⁶	cells/mL x 10 ⁶	cells/mL x 10 ⁶
January-17	N/A	7.29	N/A	N/A	2.77
February-17	N/A	7.52	N/A	N/A	2.97
March-17	5.09	7.11	7.04	N/A	2.54
May-17	N/A	5.86	N/A	N/A	2.64
April-17	N/A	5.92	N/A	N/A	2.13
June-17	3.94	5.03	4.94	4.74	2.77
July-17	N/A	4.93	N/A	N/A	2.57
August-17	N/A	5.25	N/A	N/A	2.86
September-17	4.22	5.98	5.27	5.26	2.52
October-17	N/A	6.02	N/A	N/A	2.32
November-17	4.09	6.01	5.10	5.08	2.43
December-17	N/A	5.78	N/A	N/A	2.81

Table 13. Summary of Hyalella azteca survival in sediment

LOCATION	Station B3	Station C	Station D	Station F	Station R	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
March-17	N/A	N/A	100%	N/A	N/A	100%
September-17	N/A	N/A	98%	N/A	N/A	99%

Table 14. Explanations of footnotes and agency abbreviations.

		Agency
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
Water Quality Monitoring		
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
Toxicity		
*		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