

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
10/12/99	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.4	N/A	14.1	N/A	9.0	N/A
10/26/99	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.8	N/A	4.7	N/A	3.5	N/A
11/09/99	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.5	N/A	2.9	N/A	2.2	N/A
11/30/99	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.4	N/A	14.4	N/A	1.6	N/A
12/21/99	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.0	N/A	9.9	N/A	1.4	N/A
01/08/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.8	N/A	20.1	N/A	8.2	N/A
01/22/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.4	N/A	2.5	N/A	1.7	N/A
02/05/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.7	N/A	10.0	N/A	6.4	N/A
02/21/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.8	N/A	22.0	N/A	7.2	N/A
03/03/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.4	N/A	9.2	N/A	4.8	N/A
03/20/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	5.5	N/A	17.0	N/A	15.2	N/A
03/31/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	5.1	N/A	27.8	N/A	5.9	N/A
04/16/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	6.7	N/A	27.6	N/A	17.9	N/A
04/29/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.4	N/A	10.5	N/A	4.0	N/A
05/13/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.7	N/A	17.2	N/A	9.2	N/A
05/26/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.9	N/A	22.7	N/A	7.7	N/A
06/09/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.2	N/A	23.5	N/A	1.9	N/A
06/23/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	19.9	N/A	134.8	N/A	48.5	N/A
07/12/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	9.7	N/A	66.7	N/A	15.6	N/A
07/26/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	7.8	N/A	50.1	N/A	12.3	N/A
08/09/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.9	N/A	13.9	N/A	5.6	N/A
08/23/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	5.2	N/A	19.6	N/A	11.6	N/A
09/06/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.6	N/A	15.1	N/A	3.1	N/A
09/20/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.1	N/A	9.7	N/A	2.8	N/A
10/04/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.4	N/A	11.0	N/A	3.9	N/A
10/18/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.5	N/A	3.2	N/A	2.0	N/A
11/01/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.8	N/A	6.4	N/A	2.5	N/A
11/15/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.2	N/A	2.3	N/A	0.8	N/A
11/23/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.1	N/A	0.9	N/A	0.7	N/A
12/13/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.3	N/A	2.3	N/A	1.4	N/A
12/29/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.3	N/A	2.0	N/A	1.4	N/A
01/09/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.3	N/A	2.2	N/A	1.2	N/A
01/23/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.3	N/A	3.0	N/A	1.2	N/A
02/06/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.6	N/A	4.2	N/A	2.1	N/A
02/21/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.8	N/A	4.6	N/A	3.1	N/A
03/07/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.7	N/A	3.3	N/A	3.3	N/A
03/21/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.6	N/A	8.9	N/A	6.3	N/A
04/04/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.5	N/A	13.0	N/A	10.8	N/A
04/18/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.2	N/A	18.7	N/A	5.0	N/A
05/02/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	8.8	N/A	54.1	N/A	16.8	N/A
05/16/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.7	N/A	16.7	N/A	9.7	N/A
05/30/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	9.7	N/A	51.8	N/A	24.5	N/A

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
06/13/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	10.0	N/A	66.1	N/A	18.3	N/A
06/27/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	6.7	N/A	41.0	N/A	9.7	N/A
07/11/01	Los Banos Creek @Hwy 140	N/A	N/A	16.1	N/A	10.2	N/A	65.5	N/A	20.2	N/A
07/25/01	Los Banos Creek @Hwy 140	N/A	N/A	25.3	N/A	5.9	N/A	33.7	N/A	8.6	N/A
08/07/01	Los Banos Creek @Hwy 140	N/A	N/A	28.4	N/A	6.0	N/A	47.5	N/A	1.1	N/A
08/22/01	Los Banos Creek @Hwy 140	N/A	N/A	12.5	N/A	6.7	N/A	33.1	N/A	14.4	N/A
09/05/01	Los Banos Creek @Hwy 140	N/A	N/A	8.4	N/A	4.6	N/A	17.3	N/A	8.6	N/A
09/19/01	Los Banos Creek @Hwy 140	N/A	N/A	6.3	N/A	3.2	N/A	9.1	N/A	3.5	N/A
10/03/01	Los Banos Creek @Hwy 140	N/A	N/A	9.8	N/A	3.5	N/A	15.4	N/A	1.9	N/A
10/16/01	Los Banos Creek @Hwy 140	N/A	N/A	6.4	N/A	3.4	N/A	7.9	N/A	5.8	N/A
10/30/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.4	N/A	3.8	N/A	1.4	N/A
11/14/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.6	N/A	3.6	N/A	2.4	N/A
10/12/99	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	213	N/A	N/A	2.3	1.2	1.4	0.7	1.9	1.0
10/26/99	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	343	N/A	N/A	2.3	1.9	1.7	1.4	1.6	1.3
11/09/99	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	275	N/A	N/A	2.2	1.4	1.1	0.7	0.9	0.6
11/30/99	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	247	N/A	N/A	2.2	1.3	1.9	1.1	1.0	0.6
12/21/99	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	245	N/A	N/A	2.6	1.6	4.0	2.4	2.7	1.6
01/08/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	220	N/A	N/A	2.1	1.1	1.0	0.5	0.6	0.3
01/22/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	289	N/A	N/A	2.3	1.6	3.7	2.6	0.6	0.4
02/05/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	261	N/A	N/A	2.2	1.4	0.8	0.5	1.6	1.0
02/21/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	2,739	N/A	N/A	2.2	14.5	1.1	7.2	1.0	6.4
03/03/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	3,058	N/A	N/A	2.1	15.7	1.0	7.3	0.6	4.4
03/20/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	2,225	N/A	N/A	2.7	14.5	3.2	17.2	3.3	18.2
03/31/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	669	N/A	N/A	2.3	3.7	1.3	2.1	1.7	2.9
04/16/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	343	N/A	N/A	2.2	1.8	1.0	0.8	1.2	1.0
04/29/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	1,601	N/A	N/A	2.2	8.4	1.1	4.2	0.9	3.6
05/13/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	989	N/A	N/A	2.1	5.2	0.7	1.7	1.1	2.6
05/26/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	402	N/A	N/A	2.1	2.1	1.2	1.2	0.6	0.6
06/09/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	300	N/A	N/A	2.0	1.5	0.8	0.6	0.1	0.0
06/23/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	174	N/A	N/A	2.1	0.9	1.0	0.4	0.7	0.3
07/12/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	189	N/A	N/A	2.2	1.0	1.0	0.5	1.0	0.5
07/26/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	167	N/A	N/A	2.1	0.9	0.7	0.3	0.9	0.4
08/09/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	139	N/A	N/A	2.2	0.7	1.4	0.5	0.8	0.3
08/23/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	165	N/A	N/A	2.2	0.9	1.3	0.5	1.2	0.5
09/06/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	188	N/A	N/A	2.1	1.0	0.7	0.3	0.7	0.3
09/20/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	186	N/A	N/A	2.1	1.0	0.8	0.4	0.7	0.3
10/04/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	163	N/A	N/A	2.1	0.8	0.8	0.3	0.7	0.3
10/18/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	773	N/A	N/A	2.3	4.3	1.1	2.1	1.8	3.5
11/01/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	676	N/A	N/A	2.1	3.5	1.4	2.3	0.7	1.1
11/15/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	578	N/A	N/A	2.0	2.9	0.7	1.0	0.2	0.3
11/23/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	573	N/A	N/A	2.0	2.8	0.3	0.4	0.4	0.6
12/13/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	394	N/A	N/A	2.0	1.9	0.5	0.5	0.3	0.3

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Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
12/29/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	366	N/A	N/A	2.0	1.8	0.6	0.5	0.3	0.3
01/09/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	344	N/A	N/A	2.1	1.8	1.1	0.9	0.6	0.5
01/23/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	321	N/A	N/A	2.0	1.6	0.7	0.5	0.4	0.3
02/06/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	305	N/A	N/A	2.2	1.6	1.1	0.8	1.2	0.9
02/21/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	305	N/A	N/A	2.2	1.6	0.8	0.6	1.2	0.9
03/07/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	694	N/A	N/A	2.5	4.3	3.6	6.1	2.0	3.4
03/21/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	319	N/A	N/A	2.3	1.8	1.9	1.5	1.8	1.4
04/04/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	244	N/A	N/A	2.1	1.3	0.8	0.5	0.8	0.5
04/18/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	395	N/A	N/A	2.3	2.2	1.5	1.5	1.4	1.3
05/02/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	557	N/A	N/A	2.2	3.0	0.9	1.2	1.4	1.9
05/16/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	1,166	N/A	N/A	2.1	6.1	0.6	1.8	1.1	3.1
05/30/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	351	N/A	N/A	2.1	1.8	1.1	0.9	0.8	0.7
06/13/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	240	N/A	N/A	2.5	1.5	3.1	1.8	2.1	1.2
06/27/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	157	N/A	N/A	2.4	0.9	3.0	1.1	1.6	0.6
07/11/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	152	1.1	0.4	2.3	0.9	2.2	0.8	1.3	0.5
07/25/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	126	2.1	0.6	2.7	0.8	5.6	1.7	2.2	0.7
08/07/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	132	0.8	0.3	2.2	0.7	1.7	0.6	0.9	0.3
08/22/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	119	0.7	0.2	2.2	0.7	1.5	0.4	1.3	0.4
09/05/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	76	0.8	0.1	2.2	0.4	1.6	0.3	0.6	0.1
09/19/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	153	0.8	0.3	2.2	0.8	1.7	0.6	0.9	0.3
10/03/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	88	0.5	0.1	2.1	0.5	1.5	0.3	0.3	0.1
10/16/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	124	0.8	0.2	2.3	0.7	1.9	0.6	1.7	0.5
10/30/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	796	N/A	N/A	2.3	4.4	1.4	2.7	1.6	3.1
11/14/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	505	N/A	N/A	2.3	2.9	2.2	2.7	1.6	2.0
10/26/99	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	196	N/A	N/A	3.3	1.6	6.9	3.3	5.9	2.8
11/09/99	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	182	N/A	N/A	3.4	1.5	8.6	3.8	5.3	2.4
11/30/99	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	126	N/A	N/A	3.1	1.0	7.2	2.2	4.0	1.2
12/21/99	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	117	N/A	N/A	3.0	0.9	7.7	2.2	2.9	0.8
01/08/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	147	N/A	N/A	3.6	1.3	9.6	3.5	6.4	2.3
01/22/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	177	N/A	N/A	5.5	2.4	35.2	15.2	4.6	2.0
02/05/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	184	N/A	N/A	3.4	1.5	6.4	2.9	6.4	2.9
02/21/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	343	N/A	N/A	2.3	2.0	3.0	2.5	1.1	0.9
03/03/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	332	N/A	N/A	3.5	2.9	8.8	7.2	6.3	5.1
03/20/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	166	N/A	N/A	2.3	0.9	2.2	0.9	1.5	0.6
03/31/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	89	N/A	N/A	4.1	0.9	16.9	3.7	5.6	1.2
04/16/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	78	N/A	N/A	7.6	1.4	42.7	8.2	15.0	2.9
04/29/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	56	N/A	N/A	6.9	1.0	34.8	4.8	15.1	2.1
05/13/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	104	N/A	N/A	4.3	1.1	18.0	4.6	6.2	1.6
05/26/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	102	N/A	N/A	3.8	0.9	14.6	3.6	4.4	1.1
06/09/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	94	N/A	N/A	3.8	0.9	21.0	4.8	1.0	0.2
06/23/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	82	N/A	N/A	7.8	1.6	60.1	12.0	6.2	1.2
07/12/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	72	N/A	N/A	5.1	0.9	33.7	5.9	2.7	0.5

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Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
07/26/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	63	N/A	N/A	4.0	0.6	20.4	3.1	2.7	0.4
08/09/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	63	N/A	N/A	7.7	1.2	62.9	9.7	3.6	0.6
08/23/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	59	N/A	N/A	6.6	1.0	47.3	6.8	5.5	0.8
09/06/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	56	N/A	N/A	9.3	1.3	60.1	8.2	16.9	2.3
09/20/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	52	N/A	N/A	3.6	0.5	13.6	1.7	3.5	0.5
10/04/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	88	N/A	N/A	3.2	0.7	11.8	2.5	2.2	0.5
10/18/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	194	N/A	N/A	3.0	1.4	7.2	3.4	3.7	1.8
11/01/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	236	N/A	N/A	2.4	1.4	3.5	2.0	1.3	0.7
11/15/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	131	N/A	N/A	2.8	0.9	7.9	2.5	1.4	0.5
11/23/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	127	N/A	N/A	2.4	0.8	2.0	0.6	2.4	0.8
12/13/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	159	N/A	N/A	2.7	1.0	5.0	2.0	2.3	0.9
12/29/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	127	N/A	N/A	2.5	0.8	4.1	1.3	1.9	0.6
01/09/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	142	N/A	N/A	2.7	0.9	6.5	2.2	1.8	0.6
01/23/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	200	N/A	N/A	3.1	1.5	9.9	4.9	2.2	1.1
02/06/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	197	N/A	N/A	3.8	1.8	19.7	9.5	1.9	0.9
02/21/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	215	N/A	N/A	3.9	2.1	14.3	7.5	5.6	2.9
03/07/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	411	N/A	N/A	4.4	4.5	17.3	17.4	7.6	7.6
03/21/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	154	N/A	N/A	5.1	1.9	32.6	12.3	3.3	1.2
04/04/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	77	N/A	N/A	10.2	1.9	78.6	14.8	12.1	2.3
04/18/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	57	N/A	N/A	11.8	1.6	85.7	11.9	19.3	2.7
05/02/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	68	N/A	N/A	5.2	0.9	25.9	4.3	7.8	1.3
05/16/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	99	N/A	N/A	4.2	1.0	18.0	4.4	5.8	1.4
05/30/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	91	N/A	N/A	4.4	1.0	19.0	4.2	6.0	1.3
06/13/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	65	N/A	N/A	7.5	1.2	58.8	9.3	5.0	0.8
06/27/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	61	N/A	N/A	7.5	1.1	55.4	8.3	6.7	1.0
07/11/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	71	7.0	1.2	5.4	0.9	24.5	4.2	10.1	1.7
07/25/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	62	9.7	1.5	6.9	1.0	55.4	8.4	2.5	0.4
08/07/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	73	7.0	1.2	7.0	1.3	52.9	9.4	5.0	0.9
08/22/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	61	7.8	1.2	5.1	0.8	31.3	4.7	4.3	0.6
09/05/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	43	9.0	0.9	4.7	0.5	15.6	1.6	10.4	1.1
09/19/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	49	6.8	0.8	3.6	0.4	13.7	1.6	3.6	0.4
10/03/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	99	10.3	2.5	4.0	1.0	17.3	4.2	4.3	1.0
10/16/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	163	8.0	3.2	3.3	1.3	8.6	3.4	4.3	1.7
10/30/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	111	N/A	N/A	3.5	1.0	12.6	3.4	4.0	1.1
11/14/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	243	N/A	N/A	3.3	2.0	12.3	7.3	2.5	1.5
10/12/99	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	7	N/A	N/A	2.4	0.0	2.4	0.0	1.9	0.0
10/26/99	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	19	N/A	N/A	3.3	0.2	9.6	0.4	4.2	0.2
11/09/99	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	28	N/A	N/A	2.3	0.2	3.2	0.2	1.0	0.1
11/30/99	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	59	N/A	N/A	2.4	0.3	2.1	0.3	1.7	0.3
12/21/99	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	18	N/A	N/A	2.1	0.1	0.8	0.0	0.9	0.0
01/08/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	43	N/A	N/A	2.7	0.3	7.1	0.7	1.4	0.1
01/22/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	12	N/A	N/A	3.3	0.1	8.6	0.3	4.6	0.1

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
02/05/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	6	N/A	N/A	2.3	0.0	1.6	0.0	1.6	0.0
02/21/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	10	N/A	N/A	2.0	0.0	0.3	0.0	0.2	0.0
03/03/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	39	N/A	N/A	2.0	0.2	0.3	0.0	0.3	0.0
03/20/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	3	N/A	N/A	3.0	0.0	4.5	0.0	4.9	0.0
03/31/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	9	N/A	N/A	3.0	0.1	6.1	0.1	3.9	0.1
04/16/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	20	N/A	N/A	2.9	0.1	5.8	0.3	3.7	0.2
04/29/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	17	N/A	N/A	2.5	0.1	3.2	0.1	1.8	0.1
05/13/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	62	N/A	N/A	2.6	0.4	2.6	0.4	3.4	0.5
05/26/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	13	N/A	N/A	3.5	0.1	13.3	0.4	3.1	0.1
06/09/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	81	N/A	N/A	2.4	0.5	3.9	0.8	1.3	0.3
06/23/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	8	N/A	N/A	2.4	0.0	2.7	0.1	1.7	0.0
07/12/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	14	N/A	N/A	2.4	0.1	2.0	0.1	2.0	0.1
07/26/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	18	N/A	N/A	2.5	0.1	4.0	0.2	2.0	0.1
08/09/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	27	N/A	N/A	2.7	0.2	6.0	0.4	2.1	0.1
08/23/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	11	N/A	N/A	2.7	0.1	2.9	0.1	3.6	0.1
09/06/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	29	N/A	N/A	2.7	0.2	6.6	0.5	1.6	0.1
09/20/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	22	N/A	N/A	2.8	0.2	5.8	0.3	2.7	0.1
10/04/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.4	N/A	2.1	N/A	1.8	N/A
10/18/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.9	N/A	5.6	N/A	3.4	N/A
11/01/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	1.8	N/A	0.1	N/A
11/15/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.2	N/A	2.0	N/A	0.9	N/A
11/23/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	0.6	N/A	0.5	N/A
12/13/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	2.2	N/A	0.2	N/A
12/29/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	0.9	N/A	0.3	N/A
01/09/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	1.0	N/A	0.4	N/A
01/23/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.5	N/A	4.4	N/A	1.3	N/A
02/06/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.3	N/A	3.5	N/A	0.3	N/A
02/21/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.3	N/A	2.7	N/A	1.1	N/A
03/07/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	1.2	N/A	0.7	N/A
03/21/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.6	N/A	3.3	N/A	2.9	N/A
04/04/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.5	N/A	4.0	N/A	1.8	N/A
04/18/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.8	N/A	5.3	N/A	3.4	N/A
05/02/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	3.3	N/A	4.3	N/A	7.2	N/A
05/16/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.5	N/A	4.9	N/A	1.1	N/A
05/30/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	4.7	N/A	22.3	N/A	6.5	N/A
06/13/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	3.7	N/A	8.6	N/A	7.2	N/A
06/27/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	4.7	N/A	18.9	N/A	8.7	N/A
07/11/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	12.2	N/A	2.4	N/A	4.0	N/A	1.0	N/A
07/25/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	2.3	N/A	2.1	N/A	1.1	N/A	0.7	N/A
08/07/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	1.4	N/A	2.5	N/A	4.4	N/A	1.1	N/A
08/22/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	4.3	N/A	2.3	N/A	2.4	N/A	1.3	N/A
09/05/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	2.8	N/A	2.3	N/A	3.1	N/A	0.7	N/A

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
09/19/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	2.6	N/A	2.4	N/A	2.3	N/A	1.6	N/A
10/03/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	2.6	N/A	2.4	N/A	3.5	N/A	1.4	N/A
10/16/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	2.6	N/A	2.4	N/A	2.7	N/A	1.5	N/A
10/30/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.3	N/A	2.6	N/A	1.1	N/A
11/14/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.2	N/A	2.1	N/A	0.7	N/A
10/12/99	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	130	N/A	N/A	5.3	1.7	19.2	6.1	12.8	4.1
10/26/99	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	166	N/A	N/A	12.4	5.1	72.5	29.4	32.0	13.0
11/09/99	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	226	N/A	N/A	2.6	1.4	3.8	2.1	2.1	1.2
11/30/99	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	142	N/A	N/A	4.5	1.6	20.4	7.1	6.0	2.1
12/21/99	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	93	N/A	N/A	2.4	0.6	3.7	0.8	1.3	0.3
01/08/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	84	N/A	N/A	3.6	0.7	9.6	2.0	6.4	1.3
01/22/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	117	N/A	N/A	4.0	1.1	7.9	2.3	9.9	2.8
02/05/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	203	N/A	N/A	3.6	1.8	7.2	3.6	7.2	3.6
02/21/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	251	N/A	N/A	2.9	1.8	5.1	3.1	3.9	2.4
03/03/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	360	N/A	N/A	2.8	2.5	6.7	5.9	2.1	1.9
03/20/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	397	N/A	N/A	2.4	2.3	2.2	2.1	2.1	2.0
03/31/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	295	N/A	N/A	3.3	2.4	5.0	3.6	7.1	5.1
04/16/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	262	N/A	N/A	3.7	2.4	7.0	4.5	8.5	5.4
04/29/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	173	N/A	N/A	2.8	1.2	4.6	1.9	3.8	1.6
05/13/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	226	N/A	N/A	3.3	1.8	6.8	3.7	6.0	3.3
05/26/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	115	N/A	N/A	4.1	1.2	11.2	3.1	8.9	2.5
06/09/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	149	N/A	N/A	3.4	1.2	11.6	4.2	3.5	1.3
06/23/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	172	N/A	N/A	4.6	1.9	18.1	7.6	8.5	3.6
07/12/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	230	N/A	N/A	4.1	2.3	14.2	8.0	6.9	3.9
07/26/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	179	N/A	N/A	4.5	2.0	24.6	10.8	3.9	1.7
08/09/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	206	N/A	N/A	3.9	2.0	16.4	8.3	4.1	2.1
08/23/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	166	N/A	N/A	3.7	1.5	14.2	5.8	3.9	1.6
09/06/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	104	N/A	N/A	3.6	0.9	16.1	4.1	2.6	0.7
09/20/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	91	N/A	N/A	3.3	0.7	11.9	2.6	2.8	0.6
10/04/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	86	N/A	N/A	3.2	0.7	10.2	2.2	2.8	0.6
10/18/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	113	N/A	N/A	3.8	1.0	10.2	2.8	7.2	2.0
11/01/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	180	N/A	N/A	2.8	1.2	5.2	2.3	3.1	1.4
11/15/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	126	N/A	N/A	3.0	0.9	9.3	2.9	1.9	0.6
11/23/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	120	N/A	N/A	2.7	0.8	5.5	1.6	2.3	0.7
12/13/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	156	N/A	N/A	2.9	1.1	9.6	3.7	1.2	0.5
12/29/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	113	N/A	N/A	3.0	0.8	9.8	2.7	1.7	0.5
01/09/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	221	N/A	N/A	3.2	1.7	11.6	6.3	2.3	1.3
01/23/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	144	N/A	N/A	2.9	1.0	9.4	3.3	1.4	0.5
02/06/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	216	N/A	N/A	3.1	1.6	9.0	4.8	2.9	1.5
02/21/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	244	N/A	N/A	3.2	1.9	5.8	3.4	5.8	3.4
03/07/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	685	N/A	N/A	2.5	4.2	4.3	7.2	1.4	2.4
03/21/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	266	N/A	N/A	3.3	2.1	9.4	6.1	4.0	2.6

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
04/04/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	292	N/A	N/A	3.0	2.1	6.3	4.5	3.7	2.7
04/18/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	157	N/A	N/A	3.1	1.2	7.5	2.9	4.1	1.6
05/02/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	143	N/A	N/A	2.9	1.0	4.0	1.4	4.3	1.5
05/16/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	222	N/A	N/A	3.5	1.9	11.9	6.4	4.3	2.3
05/30/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	140	N/A	N/A	3.7	1.3	13.4	4.6	4.8	1.6
06/13/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	139	N/A	N/A	4.3	1.4	12.5	4.2	9.1	3.1
06/27/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	200	N/A	N/A	4.4	2.1	16.3	8.0	7.7	3.8
07/11/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	191	5.7	2.7	4.3	2.0	23.0	10.8	2.9	1.3
07/25/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	193	4.8	2.3	4.3	2.0	15.1	7.1	7.6	3.6
08/07/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	157	3.2	1.2	4.1	1.6	23.5	9.0	1.2	0.5
08/22/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	205	2.5	1.3	3.6	1.8	13.0	6.5	4.0	2.0
09/05/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	50	4.3	0.5	4.0	0.5	9.4	1.1	9.4	1.1
09/19/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	52	3.1	0.4	3.7	0.5	12.5	1.6	5.2	0.7
10/03/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	48	2.6	0.3	3.0	0.3	9.3	1.1	1.9	0.2
10/16/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	158	3.3	1.3	3.5	1.4	7.9	3.1	6.5	2.5
10/30/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	78	N/A	N/A	3.7	0.7	14.0	2.7	4.0	0.8
11/14/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	205	N/A	N/A	3.3	1.6	10.4	5.2	3.5	1.7
07/11/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	58	6.2	0.9	N/A	N/A	N/A	N/A	N/A	N/A
07/25/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	54	8.6	1.1	N/A	N/A	N/A	N/A	N/A	N/A
08/08/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	59	6.6	1.0	N/A	N/A	N/A	N/A	N/A	N/A
08/22/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	53	6.6	0.9	N/A	N/A	N/A	N/A	N/A	N/A
09/05/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	32	7.2	0.6	N/A	N/A	N/A	N/A	N/A	N/A
09/19/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	15	5.7	0.2	N/A	N/A	N/A	N/A	N/A	N/A
10/03/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	9	6.5	0.1	N/A	N/A	N/A	N/A	N/A	N/A
03/20/00	San Luis Drain-Terminus	San Luis Drain (USGS)	45	N/A	N/A	4.1	0.5	13.4	1.5	7.8	0.9
03/31/00	San Luis Drain-Terminus	San Luis Drain (USGS)	40	N/A	N/A	5.0	0.5	30.0	2.9	3.9	0.4
04/16/00	San Luis Drain-Terminus	San Luis Drain (USGS)	41	N/A	N/A	5.8	0.6	31.3	3.1	9.2	0.9
04/29/00	San Luis Drain-Terminus	San Luis Drain (USGS)	39	N/A	N/A	6.7	0.6	33.8	3.2	14.0	1.3
05/13/00	San Luis Drain-Terminus	San Luis Drain (USGS)	47	N/A	N/A	4.7	0.5	21.8	2.5	6.9	0.8
05/26/00	San Luis Drain-Terminus	San Luis Drain (USGS)	50	N/A	N/A	3.7	0.4	14.2	1.7	3.9	0.5
06/09/00	San Luis Drain-Terminus	San Luis Drain (USGS)	67	N/A	N/A	5.2	0.8	21.7	3.5	10.1	1.7
06/23/00	San Luis Drain-Terminus	San Luis Drain (USGS)	61	N/A	N/A	6.4	1.0	45.5	6.8	4.8	0.7
07/12/00	San Luis Drain-Terminus	San Luis Drain (USGS)	67	N/A	N/A	4.9	0.8	31.0	5.1	2.7	0.4
07/26/00	San Luis Drain-Terminus	San Luis Drain (USGS)	57	N/A	N/A	3.8	0.5	20.8	2.9	1.2	0.2
08/09/00	San Luis Drain-Terminus	San Luis Drain (USGS)	55	N/A	N/A	7.0	0.9	53.9	7.2	4.0	0.5
08/23/00	San Luis Drain-Terminus	San Luis Drain (USGS)	56	N/A	N/A	6.5	0.9	30.9	4.2	14.6	2.0
09/06/00	San Luis Drain-Terminus	San Luis Drain (USGS)	47	N/A	N/A	9.2	1.1	75.5	8.7	7.2	0.8
09/20/00	San Luis Drain-Terminus	San Luis Drain (USGS)	21	N/A	N/A	3.3	0.2	12.4	0.6	2.5	0.1
10/04/00	San Luis Drain-Terminus	San Luis Drain (USGS)	19	N/A	N/A	4.0	0.2	20.7	1.0	2.6	0.1
10/18/00	San Luis Drain-Terminus	San Luis Drain (USGS)	20	N/A	N/A	3.5	0.2	14.0	0.7	3.0	0.1
11/01/00	San Luis Drain-Terminus	San Luis Drain (USGS)	21	N/A	N/A	2.9	0.1	8.1	0.4	1.8	0.1
11/15/00	San Luis Drain-Terminus	San Luis Drain (USGS)	17	N/A	N/A	5.1	0.2	31.5	1.3	3.7	0.2

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
11/23/00	San Luis Drain-Terminus	San Luis Drain (USGS)	22	N/A	N/A	3.0	0.2	8.2	0.4	3.1	0.2
12/13/00	San Luis Drain-Terminus	San Luis Drain (USGS)	24	N/A	N/A	3.8	0.2	13.4	0.8	5.2	0.3
12/29/00	San Luis Drain-Terminus	San Luis Drain (USGS)	22	N/A	N/A	2.6	0.1	6.3	0.3	0.9	0.0
01/09/01	San Luis Drain-Terminus	San Luis Drain (USGS)	27	N/A	N/A	3.5	0.2	14.7	1.0	2.2	0.1
01/23/01	San Luis Drain-Terminus	San Luis Drain (USGS)	30	N/A	N/A	3.5	0.3	17.5	1.3	1.0	0.1
02/06/01	San Luis Drain-Terminus	San Luis Drain (USGS)	53	N/A	N/A	7.4	1.0	40.3	5.2	15.1	2.0
02/21/01	San Luis Drain-Terminus	San Luis Drain (USGS)	58	N/A	N/A	3.9	0.5	15.8	2.2	4.3	0.6
03/07/01	San Luis Drain-Terminus	San Luis Drain (USGS)	79	N/A	N/A	3.6	0.7	16.4	3.2	2.2	0.4
03/21/01	San Luis Drain-Terminus	San Luis Drain (USGS)	55	N/A	N/A	11.1	1.5	69.6	9.4	24.2	3.3
04/04/01	San Luis Drain-Terminus	San Luis Drain (USGS)	38	N/A	N/A	8.6	0.8	57.5	5.3	13.4	1.2
04/18/01	San Luis Drain-Terminus	San Luis Drain (USGS)	34	N/A	N/A	9.6	0.8	75.6	6.3	10.1	0.8
05/02/01	San Luis Drain-Terminus	San Luis Drain (USGS)	30	N/A	N/A	5.1	0.4	29.2	2.1	5.4	0.4
05/16/01	San Luis Drain-Terminus	San Luis Drain (USGS)	40	N/A	N/A	4.7	0.5	23.8	2.3	5.8	0.6
05/30/01	San Luis Drain-Terminus	San Luis Drain (USGS)	46	N/A	N/A	4.4	0.5	19.0	2.1	6.0	0.7
06/13/01	San Luis Drain-Terminus	San Luis Drain (USGS)	59	N/A	N/A	8.0	1.2	62.2	9.0	6.7	1.0
06/27/01	San Luis Drain-Terminus	San Luis Drain (USGS)	50	N/A	N/A	8.3	1.0	55.1	6.7	12.7	1.6
07/11/01	San Luis Drain-Terminus	San Luis Drain (USGS)	58	N/A	N/A	5.6	0.8	24.5	3.5	11.5	1.6
07/25/01	San Luis Drain-Terminus	San Luis Drain (USGS)	54	N/A	N/A	6.6	0.9	47.9	6.3	5.0	0.7
08/07/01	San Luis Drain-Terminus	San Luis Drain (USGS)	61	N/A	N/A	6.9	1.0	57.1	8.5	1.7	0.3
08/22/01	San Luis Drain-Terminus	San Luis Drain (USGS)	53	N/A	N/A	5.4	0.7	32.8	4.3	5.2	0.7
09/05/01	San Luis Drain-Terminus	San Luis Drain (USGS)	32	N/A	N/A	4.1	0.3	16.8	1.3	5.2	0.4
09/19/01	San Luis Drain-Terminus	San Luis Drain (USGS)	15	N/A	N/A	3.6	0.1	10.8	0.4	5.2	0.2
10/03/01	San Luis Drain-Terminus	San Luis Drain (USGS)	9	N/A	N/A	4.0	0.1	17.8	0.4	4.3	0.1
10/16/01	San Luis Drain-Terminus	San Luis Drain (USGS)	19	N/A	N/A	4.3	0.2	21.6	1.0	4.3	0.2
10/30/01	San Luis Drain-Terminus	San Luis Drain (USGS)	17	N/A	N/A	N/A	N/A	75.6	3.1	N/A	N/A
11/14/01	San Luis Drain-Terminus	San Luis Drain (USGS)	37	N/A	N/A	N/A	N/A	67.0	6.1	N/A	N/A
10/12/99	SJR @Hwy 4	N/A	N/A	N/A	N/A	3.3	N/A	6.4	N/A	5.8	N/A
10/26/99	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.9	N/A	4.5	N/A	4.2	N/A
11/09/99	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.5	N/A	2.7	N/A	2.7	N/A
11/30/99	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.6	N/A	2.3	N/A	3.5	N/A
12/21/99	SJR @Hwy 4	N/A	N/A	N/A	N/A	3.0	N/A	6.1	N/A	4.0	N/A
01/08/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	3.9	N/A	7.7	N/A	9.6	N/A
01/22/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.3	N/A	1.7	N/A	1.5	N/A
02/05/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.6	N/A	3.7	N/A	2.2	N/A
02/21/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.6	N/A	3.0	N/A	3.1	N/A
03/03/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.3	N/A	2.1	N/A	1.5	N/A
03/20/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.3	N/A	1.5	N/A	1.8	N/A
03/31/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.9	N/A	5.3	N/A	3.6	N/A
10/12/99	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	56	N/A	N/A	12.6	1.7	80.0	11.0	28.8	3.9
10/26/99	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	59	N/A	N/A	3.3	0.5	7.3	1.1	5.5	0.8
11/09/99	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	25	N/A	N/A	9.3	0.6	48.0	2.9	24.0	1.5
11/30/99	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	22	N/A	N/A	9.2	0.5	53.0	2.9	20.1	1.1

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L
12/21/99	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	34	N/A	N/A	5.6	0.5	39.7	3.3	2.6	0.2
01/08/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	13	N/A	N/A	7.0	0.2	29.9	0.9	18.1	0.6
01/22/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	12	N/A	N/A	4.7	0.1	19.5	0.6	7.9	0.2
02/05/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	71	N/A	N/A	4.1	0.7	6.9	1.2	11.2	1.9
02/21/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	941	N/A	N/A	3.5	8.1	8.5	19.6	6.1	14.1
03/03/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	1,576	N/A	N/A	3.5	13.4	10.6	40.8	4.6	17.9
03/20/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	563	N/A	N/A	9.9	13.6	88.8	122.3	3.8	5.2
03/31/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	36	N/A	N/A	5.8	0.5	36.6	3.2	5.7	0.5
04/16/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	43	N/A	N/A	14.6	1.5	52.1	5.5	59.8	6.3
04/29/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	180	N/A	N/A	3.8	1.7	7.7	3.4	8.7	3.8
05/13/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	98	N/A	N/A	9.1	2.2	47.6	11.4	22.6	5.4
05/26/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	81	N/A	N/A	15.2	3.0	88.6	17.5	42.4	8.4
06/09/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	53	N/A	N/A	13.4	1.7	83.2	10.8	32.3	4.2
06/23/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	59	N/A	N/A	11.7	1.7	66.8	9.6	30.2	4.4
07/12/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	122	N/A	N/A	8.5	2.5	56.6	16.9	13.5	4.0
07/26/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	54	N/A	N/A	26.4	3.5	285.7	37.7	5.4	0.7
08/09/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	56	N/A	N/A	34.8	4.8	377.3	51.7	10.8	1.5
08/23/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	57	N/A	N/A	15.7	2.2	75.5	10.5	53.4	7.4
09/06/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	79	N/A	N/A	8.2	1.6	67.8	13.1	4.6	0.9
09/20/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	16	N/A	N/A	3.8	0.1	15.1	0.6	4.4	0.2
10/04/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	22	N/A	N/A	3.9	0.2	17.1	0.9	3.6	0.2
10/18/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	39	N/A	N/A	4.6	0.4	16.7	1.6	9.0	0.9
11/01/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	237	N/A	N/A	3.1	1.8	5.6	3.3	5.0	2.9
11/15/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	41	N/A	N/A	3.6	0.4	14.3	1.4	3.6	0.4
11/23/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	30	N/A	N/A	6.9	0.5	53.8	3.9	3.4	0.2
12/13/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	16	N/A	N/A	7.0	0.3	41.6	1.6	11.3	0.4
12/29/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	21	N/A	N/A	5.5	0.3	30.2	1.6	7.6	0.4
01/09/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	44	N/A	N/A	6.1	0.7	33.3	3.6	10.3	1.1
01/23/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	35	N/A	N/A	4.1	0.3	14.4	1.2	6.7	0.6
02/06/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	65	N/A	N/A	5.0	0.8	21.6	3.4	8.9	1.4
02/21/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	48	N/A	N/A	3.7	0.4	9.3	1.1	7.4	0.9
03/07/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	338	N/A	N/A	3.0	2.4	3.4	2.8	5.3	4.4
03/21/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	104	N/A	N/A	5.7	1.5	28.8	7.3	10.1	2.6
04/04/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	73	N/A	N/A	10.7	1.9	105.8	18.9	0.0	0.0
04/18/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	54	N/A	N/A	14.5	1.9	121.0	16.0	18.1	2.4
05/02/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	42	N/A	N/A	16.8	1.7	116.0	11.9	37.1	3.8
05/16/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	27	N/A	N/A	9.4	0.6	64.3	4.2	15.1	1.0
05/30/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	8	N/A	N/A	13.5	0.3	110.9	2.2	16.8	0.3
06/13/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	14	N/A	N/A	14.9	0.5	119.9	4.1	21.6	0.7
06/27/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	26	N/A	N/A	14.0	0.9	113.4	7.2	19.1	1.2
07/11/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	59	16.6	2.4	14.1	2.0	121.0	17.4	15.1	2.2
07/25/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	27	23.8	1.6	11.9	0.8	85.7	5.7	20.2	1.3

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
08/07/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	19	32.6	1.5	36.0	1.7	393.1	18.3	10.1	0.5
08/22/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	24	38.5	2.3	35.1	2.1	347.8	20.4	30.2	1.8
09/05/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	23	39.2	2.2	22.5	1.3	196.6	11.1	30.2	1.7
09/19/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	18	9.4	0.4	18.4	0.8	125.3	5.5	43.2	1.9
10/03/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	29	17.4	1.2	10.8	0.8	80.6	5.7	15.4	1.1
10/16/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	37	10.2	0.9	5.2	0.5	32.4	2.9	4.3	0.4
10/30/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	15	N/A	N/A	7.6	0.3	38.9	1.4	17.3	0.6
11/14/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	21	N/A	N/A	8.2	0.4	58.0	3.0	10.1	0.5
10/12/99	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,820	N/A	N/A	4.6	20.4	14.7	65.5	10.2	45.6
10/26/99	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,920	N/A	N/A	3.6	17.1	6.6	30.8	8.3	39.1
11/09/99	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,770	N/A	N/A	2.6	11.3	3.1	13.2	3.1	13.2
11/30/99	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,360	N/A	N/A	3.3	11.0	8.1	26.9	5.0	16.7
12/21/99	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,170	N/A	N/A	2.4	7.0	2.4	6.9	2.1	6.1
01/08/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,150	N/A	N/A	2.8	7.8	4.9	13.9	3.1	8.6
01/22/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,750	N/A	N/A	2.6	10.9	3.4	14.5	2.4	10.2
02/05/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,860	N/A	N/A	2.9	13.2	3.2	14.6	5.0	22.7
02/21/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	9,690	N/A	N/A	2.4	57.2	2.1	49.6	2.2	51.2
03/03/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	11,100	N/A	N/A	2.3	63.5	2.1	55.7	1.7	45.4
03/20/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	9,160	N/A	N/A	3.2	72.6	5.6	124.9	6.0	134.6
03/31/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	4,440	N/A	N/A	2.8	30.6	5.2	56.6	3.2	34.7
04/16/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	5,120	N/A	N/A	2.6	32.6	4.3	53.6	2.2	28.0
04/29/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	4,290	N/A	N/A	2.8	29.2	4.8	50.1	3.2	33.9
05/13/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	4,120	N/A	N/A	2.9	28.8	4.9	49.4	3.7	37.4
05/26/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	2,290	N/A	N/A	3.5	19.3	10.8	60.4	4.4	24.9
06/09/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,740	N/A	N/A	4.0	16.8	11.3	48.0	7.7	32.8
06/23/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,170	N/A	N/A	6.3	18.1	36.3	103.8	9.9	28.3
07/12/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,360	N/A	N/A	6.9	22.9	41.3	137.4	10.8	35.8
07/26/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,390	N/A	N/A	6.1	20.7	37.6	127.8	7.3	24.7
08/09/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,340	N/A	N/A	5.1	16.8	36.7	120.1	1.1	3.5
08/23/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	2,250	N/A	N/A	3.5	19.3	15.0	82.6	2.3	12.7
09/06/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,850	N/A	N/A	3.9	17.5	17.5	79.2	3.5	15.7
09/20/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,810	N/A	N/A	3.0	13.4	5.8	25.8	4.4	19.4
10/04/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,676	N/A	N/A	2.9	11.7	7.2	29.5	2.3	9.3
10/18/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,147	N/A	N/A	2.9	15.1	5.6	29.5	3.4	18.0
11/01/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,661	N/A	N/A	2.7	17.8	4.8	31.5	2.8	18.4
11/15/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,061	N/A	N/A	2.4	12.0	4.5	22.7	0.5	2.7
11/23/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,976	N/A	N/A	2.6	12.5	3.9	18.9	2.4	11.6
12/13/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,834	N/A	N/A	3.5	15.8	5.4	24.1	8.2	36.8
12/29/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,775	N/A	N/A	2.6	11.3	5.0	21.9	1.8	7.8
01/09/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,886	N/A	N/A	2.8	13.0	5.9	27.0	2.8	12.8
01/23/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,903	N/A	N/A	2.7	12.7	4.9	22.7	2.8	13.0
02/06/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,799	N/A	N/A	3.0	13.1	8.3	36.4	2.5	11.1

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
02/21/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,310	N/A	N/A	2.9	16.4	4.8	27.1	4.0	22.6
03/07/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	5,308	N/A	N/A	3.8	48.7	7.9	102.8	8.3	107.5
03/21/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,056	N/A	N/A	3.7	18.6	10.4	52.1	6.5	32.6
04/04/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,532	N/A	N/A	2.4	9.1	1.6	5.9	2.6	9.7
04/18/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,516	N/A	N/A	4.1	15.3	9.4	34.7	10.1	37.4
05/02/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,633	N/A	N/A	3.2	20.9	7.8	50.1	4.8	30.6
05/16/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,912	N/A	N/A	3.0	21.4	6.5	46.1	3.8	26.9
05/30/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,256	N/A	N/A	5.5	17.0	27.4	84.0	9.4	28.7
06/13/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	952	N/A	N/A	6.4	14.9	37.0	86.0	10.1	23.5
06/27/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	913	N/A	N/A	7.6	16.9	42.1	94.0	15.1	33.8
07/11/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	788	8.4	16.2	9.1	17.5	68.9	132.7	10.1	19.4
07/25/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	840	9.7	19.9	7.1	14.6	45.4	93.2	10.1	20.7
08/07/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	915	7.6	17.0	6.9	15.5	45.4	101.5	8.6	19.3
08/22/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	921	4.5	10.1	5.2	11.8	25.2	56.7	8.6	19.5
09/05/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	887	9.8	21.3	7.8	17.0	48.7	105.7	13.2	28.5
09/19/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	980	2.7	6.5	4.6	11.0	23.5	56.4	5.0	12.1
10/03/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	992	2.7	6.5	3.3	8.0	13.5	32.7	1.6	3.9
10/16/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,202	2.9	8.5	2.7	7.8	6.5	19.0	1.3	3.8
10/30/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,281	N/A	N/A	3.0	16.6	5.0	28.1	4.5	25.1
11/14/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,840	N/A	N/A	3.1	14.0	7.7	34.6	3.8	17.3
04/16/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	5,900	N/A	N/A	2.8	40.1	5.2	75.2	2.9	42.1
04/29/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	5,730	N/A	N/A	2.7	38.2	4.7	66.5	2.8	39.6
05/13/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	5,640	N/A	N/A	2.7	37.3	5.4	74.3	2.3	31.9
05/26/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	4,000	N/A	N/A	3.6	35.1	12.1	118.8	4.6	45.2
06/09/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	3,360	N/A	N/A	3.2	26.3	7.2	59.5	4.8	39.2
06/23/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,010	N/A	N/A	6.2	30.3	39.3	193.0	6.9	34.1
07/12/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,840	N/A	N/A	8.0	36.2	51.7	232.8	12.9	58.2
07/26/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,850	N/A	N/A	7.0	31.6	44.3	200.3	9.7	43.9
08/09/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,760	N/A	N/A	5.5	23.9	40.4	174.0	1.8	7.7
08/23/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,610	N/A	N/A	4.1	26.4	16.7	106.9	5.8	37.2
09/06/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,330	N/A	N/A	5.0	28.6	35.3	201.1	1.1	6.2
09/20/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,290	N/A	N/A	3.1	17.3	8.1	45.3	3.5	19.4
10/04/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,080	N/A	N/A	3.0	15.1	8.1	41.3	2.6	13.4
10/18/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,730	N/A	N/A	2.9	19.3	5.5	36.9	3.6	23.7
11/01/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	3,140	N/A	N/A	2.4	18.6	2.8	21.8	1.8	13.5
11/15/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,460	N/A	N/A	2.5	15.3	4.1	24.4	2.0	11.8
11/23/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,380	N/A	N/A	2.4	14.2	2.6	15.3	2.0	11.8
12/13/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,240	N/A	N/A	3.5	19.3	5.4	29.4	8.2	45.0
12/29/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,150	N/A	N/A	2.4	12.8	3.8	19.9	1.4	7.1
01/09/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,280	N/A	N/A	2.7	15.3	6.5	36.1	1.9	10.8
01/23/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,260	N/A	N/A	2.7	14.8	5.6	31.2	2.0	11.0
02/06/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,150	N/A	N/A	2.8	14.5	6.8	35.7	1.9	9.7

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L
02/21/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,700	N/A	N/A	2.8	18.3	4.7	30.9	3.2	21.4
03/07/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	5,900	N/A	N/A	6.7	96.9	18.7	270.0	23.0	332.4
03/21/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,450	N/A	N/A	3.6	21.7	10.8	64.7	5.6	33.6
04/04/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,040	N/A	N/A	2.9	14.7	3.9	19.4	4.9	24.4
04/18/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,130	N/A	N/A	3.8	20.0	18.4	95.6	2.7	14.1
05/02/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	4,180	N/A	N/A	3.1	31.5	6.5	66.2	4.3	44.2
05/16/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	4,510	N/A	N/A	2.9	32.0	4.8	52.4	4.1	45.3
05/30/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,980	N/A	N/A	8.1	39.1	57.0	275.7	10.0	48.4
06/13/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,530	N/A	N/A	6.7	24.9	28.6	106.8	16.8	62.8
06/27/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,480	N/A	N/A	8.5	30.8	70.6	255.3	5.0	18.2
07/11/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,350	13.0	42.9	9.8	32.3	60.5	199.6	20.2	66.5
07/25/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,300	7.0	22.2	8.2	26.1	54.2	172.2	12.6	40.0
08/07/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,350	6.0	19.8	8.4	27.8	55.4	183.0	13.4	44.4
08/22/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,340	5.2	17.0	5.1	16.7	25.4	83.2	7.6	24.8
09/05/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,280	6.9	21.6	8.9	27.9	47.0	147.2	21.8	68.4
09/19/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,330	5.0	16.3	4.5	14.7	25.2	81.9	3.6	11.7
10/03/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,330	3.6	11.7	4.1	13.2	15.8	51.5	5.8	18.7
10/16/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,510	4.5	16.6	2.6	9.7	6.9	25.5	0.9	3.2
10/30/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,800	N/A	N/A	2.6	17.5	3.9	26.6	2.2	14.8
11/14/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,220	N/A	N/A	3.1	16.6	9.1	49.2	2.6	14.1
04/16/00	SJR @Patterson	SJR @Patterson (CDEC)	1,084	N/A	N/A	3.6	9.5	10.8	28.6	5.3	14.1
04/29/00	SJR @Patterson	SJR @Patterson (CDEC)	2,203	N/A	N/A	2.8	15.1	4.9	26.2	3.3	17.8
05/13/00	SJR @Patterson	SJR @Patterson (CDEC)	1,939	N/A	N/A	3.4	15.9	8.6	40.7	5.1	24.0
05/26/00	SJR @Patterson	SJR @Patterson (CDEC)	1,101	N/A	N/A	4.4	11.7	17.5	47.0	6.9	18.7
06/09/00	SJR @Patterson	SJR @Patterson (CDEC)	919	N/A	N/A	4.4	9.8	13.9	31.1	9.2	20.8
06/23/00	SJR @Patterson	SJR @Patterson (CDEC)	767	N/A	N/A	9.2	17.2	61.1	114.6	15.6	29.2
07/12/00	SJR @Patterson	SJR @Patterson (CDEC)	863	N/A	N/A	8.6	18.1	56.1	118.3	14.3	30.2
07/26/00	SJR @Patterson	SJR @Patterson (CDEC)	830	N/A	N/A	8.3	16.8	61.9	125.6	8.7	17.7
08/09/00	SJR @Patterson	SJR @Patterson (CDEC)	800	N/A	N/A	5.8	11.3	38.5	75.3	4.7	9.2
08/23/00	SJR @Patterson	SJR @Patterson (CDEC)	780	N/A	N/A	5.4	10.3	35.4	67.4	3.6	6.9
09/06/00	SJR @Patterson	SJR @Patterson (CDEC)	884	N/A	N/A	4.7	10.2	25.0	54.1	5.0	10.8
09/20/00	SJR @Patterson	SJR @Patterson (CDEC)	657	N/A	N/A	3.5	5.6	11.6	18.6	4.3	6.9
10/04/00	SJR @Patterson	SJR @Patterson (CDEC)	660	N/A	N/A	3.0	4.8	8.5	13.7	2.5	4.0
10/18/00	SJR @Patterson	SJR @Patterson (CDEC)	1,442	N/A	N/A	2.9	10.2	5.1	18.1	3.9	13.6
11/01/00	SJR @Patterson	SJR @Patterson (CDEC)	1,599	N/A	N/A	2.9	11.2	4.5	17.6	3.9	15.2
11/15/00	SJR @Patterson	SJR @Patterson (CDEC)	1,183	N/A	N/A	2.4	7.0	3.6	10.3	1.5	4.2
11/23/00	SJR @Patterson	SJR @Patterson (CDEC)	1,088	N/A	N/A	2.4	6.5	2.8	7.4	2.0	5.3
12/13/00	SJR @Patterson	SJR @Patterson (CDEC)	973	N/A	N/A	2.6	6.2	5.3	12.7	1.7	4.1
12/29/00	SJR @Patterson	SJR @Patterson (CDEC)	893	N/A	N/A	2.5	5.5	4.4	9.7	1.7	3.7
01/09/01	SJR @Patterson	SJR @Patterson (CDEC)	885	N/A	N/A	2.7	5.8	6.2	13.4	1.5	3.3
01/23/01	SJR @Patterson	SJR @Patterson (CDEC)	990	N/A	N/A	2.7	6.5	6.1	14.8	1.8	4.4
02/06/01	SJR @Patterson	SJR @Patterson (CDEC)	995	N/A	N/A	3.1	7.5	9.1	22.2	2.9	7.0

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
02/21/01	SJR @Patterson	SJR @Patterson (CDEC)	1,055	N/A	N/A	3.1	7.9	8.1	20.9	3.2	8.4
03/07/01	SJR @Patterson	SJR @Patterson (CDEC)	2,484	N/A	N/A	2.1	12.6	1.1	6.6	0.3	1.8
03/21/01	SJR @Patterson	SJR @Patterson (CDEC)	1,199	N/A	N/A	3.8	11.1	11.3	33.2	6.5	19.0
04/04/01	SJR @Patterson	SJR @Patterson (CDEC)	909	N/A	N/A	3.1	7.0	8.6	19.2	3.5	7.7
04/18/01	SJR @Patterson	SJR @Patterson (CDEC)	1,184	N/A	N/A	4.3	12.4	20.9	60.4	4.3	12.5
05/02/01	SJR @Patterson	SJR @Patterson (CDEC)	1,192	N/A	N/A	3.6	10.4	10.1	29.4	5.8	16.8
05/16/01	SJR @Patterson	SJR @Patterson (CDEC)	1,766	N/A	N/A	3.2	13.8	7.0	30.3	4.9	21.0
05/30/01	SJR @Patterson	SJR @Patterson (CDEC)	832	N/A	N/A	2.7	5.5	6.3	12.9	1.7	3.5
06/13/01	SJR @Patterson	SJR @Patterson (CDEC)	805	N/A	N/A	5.7	11.3	29.2	57.4	9.7	19.1
06/27/01	SJR @Patterson	SJR @Patterson (CDEC)	647	N/A	N/A	6.1	9.7	37.8	59.8	7.6	12.0
07/11/01	SJR @Patterson	SJR @Patterson (CDEC)	691	7.9	13.3	7.3	12.4	53.8	90.8	6.7	11.4
07/25/01	SJR @Patterson	SJR @Patterson (CDEC)	730	7.7	13.7	8.1	14.4	57.1	102.0	10.1	18.0
08/07/01	SJR @Patterson	SJR @Patterson (CDEC)	680	9.0	15.0	6.1	10.1	36.2	60.3	8.1	13.4
08/22/01	SJR @Patterson	SJR @Patterson (CDEC)	741	6.1	11.1	5.0	9.1	28.8	52.2	5.0	9.1
09/05/01	SJR @Patterson	SJR @Patterson (CDEC)	518	7.4	9.4	5.2	6.6	24.5	31.0	8.6	10.9
09/19/01	SJR @Patterson	SJR @Patterson (CDEC)	361	4.1	3.6	3.5	3.1	14.3	12.6	2.6	2.3
10/03/01	SJR @Patterson	SJR @Patterson (CDEC)	362	5.7	5.0	3.8	3.3	14.8	13.1	4.3	3.8
10/16/01	SJR @Patterson	SJR @Patterson (CDEC)	487	4.3	5.1	2.8	3.4	8.1	9.6	1.6	1.9
10/30/01	SJR @Patterson	SJR @Patterson (CDEC)	966	N/A	N/A	2.8	6.7	5.8	13.6	2.9	6.8
11/14/01	SJR @Patterson	SJR @Patterson (CDEC)	936	N/A	N/A	2.9	6.7	9.4	21.4	1.4	3.3
07/11/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,350	5.9	19.5	5.6	18.5	25.9	85.6	10.8	35.6
07/25/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,300	5.5	17.5	6.5	20.6	39.3	125.0	9.1	28.8
08/07/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,350	5.6	18.5	7.4	24.5	60.5	199.6	3.4	11.1
08/22/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,340	3.2	10.5	5.0	16.5	21.6	70.8	9.4	30.7
09/05/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,280	7.2	22.5	7.0	21.8	50.4	157.7	6.0	18.9
09/19/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,330	2.9	9.4	3.7	12.1	15.1	49.2	3.8	12.3
10/03/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,330	2.1	6.8	3.1	10.0	10.8	35.1	1.7	5.6
10/16/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,510	2.4	8.9	2.8	10.3	6.5	23.9	2.2	8.0
10/30/01	SJR @Vernalis	SJR @Vernalis (USGS)	2,800	N/A	N/A	3.3	22.7	8.6	59.1	4.7	32.0
11/14/01	SJR @Vernalis	SJR @Vernalis (USGS)	2,220	N/A	N/A	2.9	15.7	5.3	29.0	3.7	20.1
03/20/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,652	N/A	N/A	2.1	8.6	0.8	3.3	0.9	3.5
03/31/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	971	N/A	N/A	2.3	5.5	1.6	3.7	1.7	4.1
04/16/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,255	N/A	N/A	2.4	7.3	1.5	4.6	2.2	6.6
04/29/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,565	N/A	N/A	2.2	8.3	1.4	5.2	0.9	3.4
05/13/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,552	N/A	N/A	2.2	8.2	1.1	4.1	0.9	3.4
05/26/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,510	N/A	N/A	2.2	8.0	1.1	4.2	1.0	3.6
06/09/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,596	N/A	N/A	2.1	8.3	0.8	3.0	0.9	3.6
06/23/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	517	N/A	N/A	2.1	2.7	1.0	1.2	0.8	1.0
07/12/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	432	N/A	N/A	2.2	2.3	1.1	1.2	0.9	1.0
07/26/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	420	N/A	N/A	2.2	2.3	1.4	1.4	1.2	1.2
08/09/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	402	N/A	N/A	2.2	2.2	1.2	1.2	1.4	1.4
08/23/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	388	N/A	N/A	2.2	2.1	0.8	0.7	1.5	1.4

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
09/06/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	392	N/A	N/A	2.1	2.0	0.7	0.7	1.0	0.9
09/20/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	395	N/A	N/A	2.1	2.1	0.7	0.6	1.0	1.0
10/04/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	404	N/A	N/A	2.1	2.1	0.8	0.8	1.0	1.0
10/18/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	583	N/A	N/A	2.2	3.1	0.9	1.2	1.1	1.6
11/01/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	479	N/A	N/A	2.1	2.5	0.8	0.9	0.9	1.0
11/15/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	399	N/A	N/A	2.1	2.1	0.8	0.8	0.7	0.7
11/23/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	404	N/A	N/A	2.1	2.0	0.4	0.4	0.7	0.7
12/13/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	406	N/A	N/A	2.1	2.1	1.3	1.3	0.7	0.7
12/29/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	375	N/A	N/A	2.2	2.0	1.6	1.5	0.8	0.7
01/09/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	394	N/A	N/A	2.3	2.2	3.2	3.1	0.6	0.6
01/23/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	357	N/A	N/A	2.2	1.9	1.4	1.3	0.8	0.7
02/06/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	351	N/A	N/A	2.3	2.0	2.4	2.0	1.3	1.1
02/21/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	390	N/A	N/A	2.4	2.3	2.4	2.3	1.9	1.9
03/07/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	592	N/A	N/A	2.7	3.9	2.0	2.9	4.2	6.0
03/21/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	394	N/A	N/A	2.9	2.8	3.7	3.6	4.9	4.8
04/04/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	508	N/A	N/A	3.0	3.8	7.2	8.9	3.6	4.5
04/18/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	614	N/A	N/A	2.3	3.4	1.7	2.5	1.3	1.9
05/02/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,547	N/A	N/A	2.3	8.6	1.4	5.2	1.6	6.0
05/16/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,598	N/A	N/A	2.3	8.9	1.4	5.6	1.6	6.2
05/30/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	724	N/A	N/A	2.3	4.0	1.4	2.5	1.6	2.8
06/13/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	578	N/A	N/A	2.4	3.4	2.4	3.5	2.1	3.0
06/27/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	567	N/A	N/A	3.7	5.1	7.5	10.3	7.9	10.9
07/11/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	562	0.6	0.8	2.2	3.1	1.1	1.5	1.5	2.1
07/25/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	460	1.0	1.1	2.1	2.4	0.9	1.0	0.8	0.9
08/07/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	435	0.7	0.7	2.2	2.3	1.0	1.1	0.9	1.0
08/22/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	419	0.9	0.9	2.3	2.4	1.4	1.5	1.8	1.8
09/05/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	393	0.9	0.9	2.1	2.0	1.2	1.1	0.5	0.5
09/19/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	350	0.9	0.8	2.1	1.8	1.2	1.0	0.6	0.6
10/03/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	338	1.0	0.8	2.1	1.8	1.2	1.0	0.6	0.5
10/16/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	308	0.4	0.3	2.1	1.6	0.8	0.6	0.7	0.5
10/30/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	519	N/A	N/A	2.3	3.0	2.5	3.2	1.3	1.6
11/14/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	380	N/A	N/A	2.2	2.1	1.7	1.6	1.2	1.1
10/12/99	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	660	N/A	N/A	2.5	4.0	1.7	2.7	2.7	4.4
10/26/99	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	454	N/A	N/A	2.4	2.7	1.6	1.8	2.6	2.8
11/09/99	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	454	N/A	N/A	2.3	2.6	0.4	0.4	2.4	2.6
11/30/99	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	411	N/A	N/A	2.2	2.2	1.8	1.8	0.8	0.8
12/21/99	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	379	N/A	N/A	2.1	2.0	0.4	0.4	1.1	1.0
01/08/00	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	355	N/A	N/A	2.3	2.0	1.9	1.7	1.1	1.0
01/22/00	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	377	N/A	N/A	3.6	3.3	5.5	5.1	8.7	8.0
02/05/00	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	411	N/A	N/A	2.3	2.3	1.2	1.2	1.6	1.6
02/21/00	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	2,318	N/A	N/A	7.7	43.8	32.0	181.4	22.4	127.0
03/03/00	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	3,322	N/A	N/A	2.1	16.7	0.6	4.9	0.5	3.8

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L
10/12/99	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	553	N/A	N/A	2.3	3.1	1.1	1.5	1.8	2.4
10/26/99	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	515	N/A	N/A	2.7	3.4	2.6	3.2	3.8	4.8
11/09/99	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	506	N/A	N/A	2.2	2.7	1.1	1.3	1.1	1.3
11/30/99	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	424	N/A	N/A	2.7	2.8	4.2	4.4	3.1	3.2
12/21/99	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	417	N/A	N/A	2.4	2.4	2.2	2.2	1.8	1.8
01/08/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	416	N/A	N/A	2.2	2.2	1.6	1.6	0.9	0.9
01/22/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	503	N/A	N/A	2.5	3.1	3.0	3.7	2.5	3.1
02/05/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	362	N/A	N/A	2.2	1.9	0.8	0.7	1.2	1.0
02/21/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	3,930	N/A	N/A	4.3	41.3	10.3	98.6	10.8	103.8
03/03/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	4,245	N/A	N/A	2.1	21.5	0.6	6.4	0.6	6.2
03/20/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	5,290	N/A	N/A	2.4	30.8	1.9	24.7	2.1	26.6
03/31/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	2,769	N/A	N/A	2.2	14.6	1.0	7.0	1.0	6.7
04/16/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	4,481	N/A	N/A	2.2	24.1	1.2	13.0	1.2	13.2
04/29/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	2,027	N/A	N/A	2.2	11.0	1.5	7.5	1.1	5.4
05/13/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	2,025	N/A	N/A	2.1	10.6	1.1	5.7	0.8	4.1
05/26/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	881	N/A	N/A	2.2	4.8	2.1	4.5	0.9	2.0
06/09/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	617	N/A	N/A	2.3	3.5	1.7	2.6	1.5	2.3
06/23/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	762	N/A	N/A	2.3	4.2	2.0	3.7	1.1	2.0
07/12/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	627	N/A	N/A	2.2	3.4	1.1	1.7	1.6	2.4
07/26/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	692	N/A	N/A	2.1	3.6	0.7	1.2	0.8	1.4
08/09/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	478	N/A	N/A	2.1	2.4	0.5	0.6	0.7	0.9
08/23/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,629	N/A	N/A	2.1	8.5	0.9	3.4	1.0	3.8
09/06/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	825	N/A	N/A	2.1	4.3	0.8	1.5	0.9	1.8
09/20/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,093	N/A	N/A	2.2	5.8	0.8	2.2	1.2	3.2
10/04/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	928	N/A	N/A	2.1	4.9	1.0	2.3	0.9	2.1
10/18/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	588	N/A	N/A	2.2	3.2	1.0	1.5	1.4	2.0
11/01/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	652	N/A	N/A	2.0	3.2	0.4	0.7	0.4	0.6
11/15/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	487	N/A	N/A	2.1	2.5	0.7	0.9	0.5	0.6
11/23/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	497	N/A	N/A	2.0	2.5	0.3	0.4	0.4	0.5
12/13/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	455	N/A	N/A	2.1	2.3	0.6	0.7	0.5	0.6
12/29/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	442	N/A	N/A	2.1	2.3	1.4	1.6	0.5	0.6
01/09/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	510	N/A	N/A	2.2	2.7	1.7	2.2	0.9	1.1
01/23/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	456	N/A	N/A	2.2	2.4	1.6	1.8	0.9	1.0
02/06/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	442	N/A	N/A	2.2	2.4	1.6	1.7	1.0	1.1
02/21/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,271	N/A	N/A	2.2	7.0	1.2	3.8	1.4	4.5
03/07/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,850	N/A	N/A	2.5	11.1	1.9	8.5	2.6	11.7
03/21/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	607	N/A	N/A	2.2	3.3	1.8	2.7	0.9	1.3
04/04/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	605	N/A	N/A	2.3	3.4	1.9	2.8	1.4	2.1
04/18/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	566	N/A	N/A	2.4	3.3	3.2	4.4	1.1	1.6
05/02/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,507	N/A	N/A	2.2	8.1	1.2	4.5	1.2	4.5
05/16/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,078	N/A	N/A	2.3	6.0	1.5	4.0	1.4	3.8
05/30/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	433	N/A	N/A	2.3	2.4	2.7	2.8	1.0	1.1

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
06/13/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	336	N/A	N/A	2.6	2.1	2.4	2.0	3.0	2.5
06/27/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	340	N/A	N/A	2.8	2.4	4.3	3.6	3.8	3.2
07/11/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	215	1.0	0.5	2.2	1.2	2.4	1.3	0.5	0.3
07/25/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	315	1.2	0.9	2.3	1.8	3.3	2.6	0.6	0.4
08/07/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	303	1.4	1.0	2.5	1.8	3.2	2.4	1.9	1.4
08/22/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	327	1.5	1.2	2.6	2.1	3.7	2.9	2.4	1.9
09/05/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	327	1.0	0.8	2.3	1.8	2.1	1.7	1.0	0.8
09/19/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	336	1.3	1.1	2.3	1.9	2.5	2.1	1.4	1.2
10/03/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	327	1.0	0.8	2.3	1.9	3.2	2.5	0.9	0.7
10/16/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	328	0.7	0.6	2.4	1.9	2.9	2.3	1.7	1.4
10/30/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	289	N/A	N/A	2.5	1.8	3.6	2.5	1.9	1.4
11/14/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	269	N/A	N/A	2.2	1.5	1.9	1.2	1.0	0.7

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
10/12/99	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.4	N/A	14.1	N/A	9.0	N/A
10/26/99	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.8	N/A	4.7	N/A	3.5	N/A
11/09/99	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.5	N/A	2.9	N/A	2.2	N/A
11/30/99	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.4	N/A	14.4	N/A	1.6	N/A
12/21/99	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.0	N/A	9.9	N/A	1.4	N/A
01/08/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.8	N/A	20.1	N/A	8.2	N/A
01/22/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.4	N/A	2.5	N/A	1.7	N/A
02/05/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.7	N/A	10.0	N/A	6.4	N/A
02/21/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.8	N/A	22.0	N/A	7.2	N/A
03/03/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.4	N/A	9.2	N/A	4.8	N/A
03/20/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	5.5	N/A	17.0	N/A	15.2	N/A
03/31/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	5.1	N/A	27.8	N/A	5.9	N/A
04/16/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	6.7	N/A	27.6	N/A	17.9	N/A
04/29/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.4	N/A	10.5	N/A	4.0	N/A
05/13/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.7	N/A	17.2	N/A	9.2	N/A
05/26/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.9	N/A	22.7	N/A	7.7	N/A
06/09/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.2	N/A	23.5	N/A	1.9	N/A
06/23/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	19.9	N/A	134.8	N/A	48.5	N/A
07/12/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	9.7	N/A	66.7	N/A	15.6	N/A
07/26/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	7.8	N/A	50.1	N/A	12.3	N/A
08/09/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.9	N/A	13.9	N/A	5.6	N/A
08/23/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	5.2	N/A	19.6	N/A	11.6	N/A
09/06/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.6	N/A	15.1	N/A	3.1	N/A
09/20/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.1	N/A	9.7	N/A	2.8	N/A
10/04/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.4	N/A	11.0	N/A	3.9	N/A
10/18/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.5	N/A	3.2	N/A	2.0	N/A
11/01/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.8	N/A	6.4	N/A	2.5	N/A
11/15/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.2	N/A	2.3	N/A	0.8	N/A
11/23/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.1	N/A	0.9	N/A	0.7	N/A
12/13/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.3	N/A	2.3	N/A	1.4	N/A
12/29/00	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.3	N/A	2.0	N/A	1.4	N/A
01/09/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.3	N/A	2.2	N/A	1.2	N/A
01/23/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.3	N/A	3.0	N/A	1.2	N/A
02/06/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.6	N/A	4.2	N/A	2.1	N/A
02/21/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.8	N/A	4.6	N/A	3.1	N/A
03/07/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.7	N/A	3.3	N/A	3.3	N/A
03/21/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	3.6	N/A	8.9	N/A	6.3	N/A
04/04/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.5	N/A	13.0	N/A	10.8	N/A
04/18/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.2	N/A	18.7	N/A	5.0	N/A
05/02/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	8.8	N/A	54.1	N/A	16.8	N/A
05/16/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	4.7	N/A	16.7	N/A	9.7	N/A
05/30/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	9.7	N/A	51.8	N/A	24.5	N/A

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
06/13/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	10.0	N/A	66.1	N/A	18.3	N/A
06/27/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	6.7	N/A	41.0	N/A	9.7	N/A
07/11/01	Los Banos Creek @Hwy 140	N/A	N/A	16.1	N/A	10.2	N/A	65.5	N/A	20.2	N/A
07/25/01	Los Banos Creek @Hwy 140	N/A	N/A	25.3	N/A	5.9	N/A	33.7	N/A	8.6	N/A
08/07/01	Los Banos Creek @Hwy 140	N/A	N/A	28.4	N/A	6.0	N/A	47.5	N/A	1.1	N/A
08/22/01	Los Banos Creek @Hwy 140	N/A	N/A	12.5	N/A	6.7	N/A	33.1	N/A	14.4	N/A
09/05/01	Los Banos Creek @Hwy 140	N/A	N/A	8.4	N/A	4.6	N/A	17.3	N/A	8.6	N/A
09/19/01	Los Banos Creek @Hwy 140	N/A	N/A	6.3	N/A	3.2	N/A	9.1	N/A	3.5	N/A
10/03/01	Los Banos Creek @Hwy 140	N/A	N/A	9.8	N/A	3.5	N/A	15.4	N/A	1.9	N/A
10/16/01	Los Banos Creek @Hwy 140	N/A	N/A	6.4	N/A	3.4	N/A	7.9	N/A	5.8	N/A
10/30/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.4	N/A	3.8	N/A	1.4	N/A
11/14/01	Los Banos Creek @Hwy 140	N/A	N/A	N/A	N/A	2.6	N/A	3.6	N/A	2.4	N/A
10/12/99	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	213	N/A	N/A	2.3	1.2	1.4	0.7	1.9	1.0
10/26/99	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	343	N/A	N/A	2.3	1.9	1.7	1.4	1.6	1.3
11/09/99	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	275	N/A	N/A	2.2	1.4	1.1	0.7	0.9	0.6
11/30/99	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	247	N/A	N/A	2.2	1.3	1.9	1.1	1.0	0.6
12/21/99	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	245	N/A	N/A	2.6	1.6	4.0	2.4	2.7	1.6
01/08/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	220	N/A	N/A	2.1	1.1	1.0	0.5	0.6	0.3
01/22/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	289	N/A	N/A	2.3	1.6	3.7	2.6	0.6	0.4
02/05/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	261	N/A	N/A	2.2	1.4	0.8	0.5	1.6	1.0
02/21/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	2,739	N/A	N/A	2.2	14.5	1.1	7.2	1.0	6.4
03/03/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	3,058	N/A	N/A	2.1	15.7	1.0	7.3	0.6	4.4
03/20/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	2,225	N/A	N/A	2.7	14.5	3.2	17.2	3.3	18.2
03/31/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	669	N/A	N/A	2.3	3.7	1.3	2.1	1.7	2.9
04/16/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	343	N/A	N/A	2.2	1.8	1.0	0.8	1.2	1.0
04/29/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	1,601	N/A	N/A	2.2	8.4	1.1	4.2	0.9	3.6
05/13/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	989	N/A	N/A	2.1	5.2	0.7	1.7	1.1	2.6
05/26/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	402	N/A	N/A	2.1	2.1	1.2	1.2	0.6	0.6
06/09/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	300	N/A	N/A	2.0	1.5	0.8	0.6	0.1	0.0
06/23/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	174	N/A	N/A	2.1	0.9	1.0	0.4	0.7	0.3
07/12/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	189	N/A	N/A	2.2	1.0	1.0	0.5	1.0	0.5
07/26/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	167	N/A	N/A	2.1	0.9	0.7	0.3	0.9	0.4
08/09/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	139	N/A	N/A	2.2	0.7	1.4	0.5	0.8	0.3
08/23/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	165	N/A	N/A	2.2	0.9	1.3	0.5	1.2	0.5
09/06/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	188	N/A	N/A	2.1	1.0	0.7	0.3	0.7	0.3
09/20/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	186	N/A	N/A	2.1	1.0	0.8	0.4	0.7	0.3
10/04/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	163	N/A	N/A	2.1	0.8	0.8	0.3	0.7	0.3
10/18/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	773	N/A	N/A	2.3	4.3	1.1	2.1	1.8	3.5
11/01/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	676	N/A	N/A	2.1	3.5	1.4	2.3	0.7	1.1
11/15/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	578	N/A	N/A	2.0	2.9	0.7	1.0	0.2	0.3
11/23/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	573	N/A	N/A	2.0	2.8	0.3	0.4	0.4	0.6
12/13/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	394	N/A	N/A	2.0	1.9	0.5	0.5	0.3	0.3

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
12/29/00	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	366	N/A	N/A	2.0	1.8	0.6	0.5	0.3	0.3
01/09/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	344	N/A	N/A	2.1	1.8	1.1	0.9	0.6	0.5
01/23/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	321	N/A	N/A	2.0	1.6	0.7	0.5	0.4	0.3
02/06/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	305	N/A	N/A	2.2	1.6	1.1	0.8	1.2	0.9
02/21/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	305	N/A	N/A	2.2	1.6	0.8	0.6	1.2	0.9
03/07/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	694	N/A	N/A	2.5	4.3	3.6	6.1	2.0	3.4
03/21/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	319	N/A	N/A	2.3	1.8	1.9	1.5	1.8	1.4
04/04/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	244	N/A	N/A	2.1	1.3	0.8	0.5	0.8	0.5
04/18/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	395	N/A	N/A	2.3	2.2	1.5	1.5	1.4	1.3
05/02/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	557	N/A	N/A	2.2	3.0	0.9	1.2	1.4	1.9
05/16/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	1,166	N/A	N/A	2.1	6.1	0.6	1.8	1.1	3.1
05/30/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	351	N/A	N/A	2.1	1.8	1.1	0.9	0.8	0.7
06/13/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	240	N/A	N/A	2.5	1.5	3.1	1.8	2.1	1.2
06/27/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	157	N/A	N/A	2.4	0.9	3.0	1.1	1.6	0.6
07/11/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	152	1.1	0.4	2.3	0.9	2.2	0.8	1.3	0.5
07/25/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	126	2.1	0.6	2.7	0.8	5.6	1.7	2.2	0.7
08/07/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	132	0.8	0.3	2.2	0.7	1.7	0.6	0.9	0.3
08/22/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	119	0.7	0.2	2.2	0.7	1.5	0.4	1.3	0.4
09/05/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	76	0.8	0.1	2.2	0.4	1.6	0.3	0.6	0.1
09/19/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	153	0.8	0.3	2.2	0.8	1.7	0.6	0.9	0.3
10/03/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	88	0.5	0.1	2.1	0.5	1.5	0.3	0.3	0.1
10/16/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	124	0.8	0.2	2.3	0.7	1.9	0.6	1.7	0.5
10/30/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	796	N/A	N/A	2.3	4.4	1.4	2.7	1.6	3.1
11/14/01	Merced @River Rd (J18)	Merced @Stevinson (CDEC)	505	N/A	N/A	2.3	2.9	2.2	2.7	1.6	2.0
10/26/99	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	196	N/A	N/A	3.3	1.6	6.9	3.3	5.9	2.8
11/09/99	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	182	N/A	N/A	3.4	1.5	8.6	3.8	5.3	2.4
11/30/99	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	126	N/A	N/A	3.1	1.0	7.2	2.2	4.0	1.2
12/21/99	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	117	N/A	N/A	3.0	0.9	7.7	2.2	2.9	0.8
01/08/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	147	N/A	N/A	3.6	1.3	9.6	3.5	6.4	2.3
01/22/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	177	N/A	N/A	5.5	2.4	35.2	15.2	4.6	2.0
02/05/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	184	N/A	N/A	3.4	1.5	6.4	2.9	6.4	2.9
02/21/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	343	N/A	N/A	2.3	2.0	3.0	2.5	1.1	0.9
03/03/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	332	N/A	N/A	3.5	2.9	8.8	7.2	6.3	5.1
03/20/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	166	N/A	N/A	2.3	0.9	2.2	0.9	1.5	0.6
03/31/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	89	N/A	N/A	4.1	0.9	16.9	3.7	5.6	1.2
04/16/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	78	N/A	N/A	7.6	1.4	42.7	8.2	15.0	2.9
04/29/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	56	N/A	N/A	6.9	1.0	34.8	4.8	15.1	2.1
05/13/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	104	N/A	N/A	4.3	1.1	18.0	4.6	6.2	1.6
05/26/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	102	N/A	N/A	3.8	0.9	14.6	3.6	4.4	1.1
06/09/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	94	N/A	N/A	3.8	0.9	21.0	4.8	1.0	0.2
06/23/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	82	N/A	N/A	7.8	1.6	60.1	12.0	6.2	1.2
07/12/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	72	N/A	N/A	5.1	0.9	33.7	5.9	2.7	0.5

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
07/26/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	63	N/A	N/A	4.0	0.6	20.4	3.1	2.7	0.4
08/09/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	63	N/A	N/A	7.7	1.2	62.9	9.7	3.6	0.6
08/23/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	59	N/A	N/A	6.6	1.0	47.3	6.8	5.5	0.8
09/06/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	56	N/A	N/A	9.3	1.3	60.1	8.2	16.9	2.3
09/20/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	52	N/A	N/A	3.6	0.5	13.6	1.7	3.5	0.5
10/04/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	88	N/A	N/A	3.2	0.7	11.8	2.5	2.2	0.5
10/18/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	194	N/A	N/A	3.0	1.4	7.2	3.4	3.7	1.8
11/01/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	236	N/A	N/A	2.4	1.4	3.5	2.0	1.3	0.7
11/15/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	131	N/A	N/A	2.8	0.9	7.9	2.5	1.4	0.5
11/23/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	127	N/A	N/A	2.4	0.8	2.0	0.6	2.4	0.8
12/13/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	159	N/A	N/A	2.7	1.0	5.0	2.0	2.3	0.9
12/29/00	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	127	N/A	N/A	2.5	0.8	4.1	1.3	1.9	0.6
01/09/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	142	N/A	N/A	2.7	0.9	6.5	2.2	1.8	0.6
01/23/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	200	N/A	N/A	3.1	1.5	9.9	4.9	2.2	1.1
02/06/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	197	N/A	N/A	3.8	1.8	19.7	9.5	1.9	0.9
02/21/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	215	N/A	N/A	3.9	2.1	14.3	7.5	5.6	2.9
03/07/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	411	N/A	N/A	4.4	4.5	17.3	17.4	7.6	7.6
03/21/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	154	N/A	N/A	5.1	1.9	32.6	12.3	3.3	1.2
04/04/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	77	N/A	N/A	10.2	1.9	78.6	14.8	12.1	2.3
04/18/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	57	N/A	N/A	11.8	1.6	85.7	11.9	19.3	2.7
05/02/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	68	N/A	N/A	5.2	0.9	25.9	4.3	7.8	1.3
05/16/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	99	N/A	N/A	4.2	1.0	18.0	4.4	5.8	1.4
05/30/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	91	N/A	N/A	4.4	1.0	19.0	4.2	6.0	1.3
06/13/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	65	N/A	N/A	7.5	1.2	58.8	9.3	5.0	0.8
06/27/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	61	N/A	N/A	7.5	1.1	55.4	8.3	6.7	1.0
07/11/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	71	7.0	1.2	5.4	0.9	24.5	4.2	10.1	1.7
07/25/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	62	9.7	1.5	6.9	1.0	55.4	8.4	2.5	0.4
08/07/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	73	7.0	1.2	7.0	1.3	52.9	9.4	5.0	0.9
08/22/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	61	7.8	1.2	5.1	0.8	31.3	4.7	4.3	0.6
09/05/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	43	9.0	0.9	4.7	0.5	15.6	1.6	10.4	1.1
09/19/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	49	6.8	0.8	3.6	0.4	13.7	1.6	3.6	0.4
10/03/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	99	10.3	2.5	4.0	1.0	17.3	4.2	4.3	1.0
10/16/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	163	8.0	3.2	3.3	1.3	8.6	3.4	4.3	1.7
10/30/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	111	N/A	N/A	3.5	1.0	12.6	3.4	4.0	1.1
11/14/01	Mud Slough @Kesterson	Mud Slough @Gustine (USGS)	243	N/A	N/A	3.3	2.0	12.3	7.3	2.5	1.5
10/12/99	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	7	N/A	N/A	2.4	0.0	2.4	0.0	1.9	0.0
10/26/99	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	19	N/A	N/A	3.3	0.2	9.6	0.4	4.2	0.2
11/09/99	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	28	N/A	N/A	2.3	0.2	3.2	0.2	1.0	0.1
11/30/99	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	59	N/A	N/A	2.4	0.3	2.1	0.3	1.7	0.3
12/21/99	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	18	N/A	N/A	2.1	0.1	0.8	0.0	0.9	0.0
01/08/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	43	N/A	N/A	2.7	0.3	7.1	0.7	1.4	0.1
01/22/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	12	N/A	N/A	3.3	0.1	8.6	0.3	4.6	0.1

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
02/05/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	6	N/A	N/A	2.3	0.0	1.6	0.0	1.6	0.0
02/21/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	10	N/A	N/A	2.0	0.0	0.3	0.0	0.2	0.0
03/03/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	39	N/A	N/A	2.0	0.2	0.3	0.0	0.3	0.0
03/20/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	3	N/A	N/A	3.0	0.0	4.5	0.0	4.9	0.0
03/31/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	9	N/A	N/A	3.0	0.1	6.1	0.1	3.9	0.1
04/16/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	20	N/A	N/A	2.9	0.1	5.8	0.3	3.7	0.2
04/29/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	17	N/A	N/A	2.5	0.1	3.2	0.1	1.8	0.1
05/13/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	62	N/A	N/A	2.6	0.4	2.6	0.4	3.4	0.5
05/26/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	13	N/A	N/A	3.5	0.1	13.3	0.4	3.1	0.1
06/09/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	81	N/A	N/A	2.4	0.5	3.9	0.8	1.3	0.3
06/23/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	8	N/A	N/A	2.4	0.0	2.7	0.1	1.7	0.0
07/12/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	14	N/A	N/A	2.4	0.1	2.0	0.1	2.0	0.1
07/26/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	18	N/A	N/A	2.5	0.1	4.0	0.2	2.0	0.1
08/09/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	27	N/A	N/A	2.7	0.2	6.0	0.4	2.1	0.1
08/23/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	11	N/A	N/A	2.7	0.1	2.9	0.1	3.6	0.1
09/06/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	29	N/A	N/A	2.7	0.2	6.6	0.5	1.6	0.1
09/20/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	22	N/A	N/A	2.8	0.2	5.8	0.3	2.7	0.1
10/04/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.4	N/A	2.1	N/A	1.8	N/A
10/18/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.9	N/A	5.6	N/A	3.4	N/A
11/01/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	1.8	N/A	0.1	N/A
11/15/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.2	N/A	2.0	N/A	0.9	N/A
11/23/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	0.6	N/A	0.5	N/A
12/13/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	2.2	N/A	0.2	N/A
12/29/00	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	0.9	N/A	0.3	N/A
01/09/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	1.0	N/A	0.4	N/A
01/23/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.5	N/A	4.4	N/A	1.3	N/A
02/06/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.3	N/A	3.5	N/A	0.3	N/A
02/21/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.3	N/A	2.7	N/A	1.1	N/A
03/07/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.1	N/A	1.2	N/A	0.7	N/A
03/21/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.6	N/A	3.3	N/A	2.9	N/A
04/04/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.5	N/A	4.0	N/A	1.8	N/A
04/18/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.8	N/A	5.3	N/A	3.4	N/A
05/02/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	3.3	N/A	4.3	N/A	7.2	N/A
05/16/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.5	N/A	4.9	N/A	1.1	N/A
05/30/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	4.7	N/A	22.3	N/A	6.5	N/A
06/13/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	3.7	N/A	8.6	N/A	7.2	N/A
06/27/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	4.7	N/A	18.9	N/A	8.7	N/A
07/11/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	12.2	N/A	2.4	N/A	4.0	N/A	1.0	N/A
07/25/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	2.3	N/A	2.1	N/A	1.1	N/A	0.7	N/A
08/07/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	1.4	N/A	2.5	N/A	4.4	N/A	1.1	N/A
08/22/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	4.3	N/A	2.3	N/A	2.4	N/A	1.3	N/A
09/05/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	2.8	N/A	2.3	N/A	3.1	N/A	0.7	N/A

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
09/19/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	2.6	N/A	2.4	N/A	2.3	N/A	1.6	N/A
10/03/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	2.6	N/A	2.4	N/A	3.5	N/A	1.4	N/A
10/16/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	2.6	N/A	2.4	N/A	2.7	N/A	1.5	N/A
10/30/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.3	N/A	2.6	N/A	1.1	N/A
11/14/01	Orestimba Crk @River Rd	Orestimba @River Road (USGS)	N/A	N/A	N/A	2.2	N/A	2.1	N/A	0.7	N/A
10/12/99	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	130	N/A	N/A	5.3	1.7	19.2	6.1	12.8	4.1
10/26/99	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	166	N/A	N/A	12.4	5.1	72.5	29.4	32.0	13.0
11/09/99	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	226	N/A	N/A	2.6	1.4	3.8	2.1	2.1	1.2
11/30/99	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	142	N/A	N/A	4.5	1.6	20.4	7.1	6.0	2.1
12/21/99	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	93	N/A	N/A	2.4	0.6	3.7	0.8	1.3	0.3
01/08/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	84	N/A	N/A	3.6	0.7	9.6	2.0	6.4	1.3
01/22/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	117	N/A	N/A	4.0	1.1	7.9	2.3	9.9	2.8
02/05/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	203	N/A	N/A	3.6	1.8	7.2	3.6	7.2	3.6
02/21/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	251	N/A	N/A	2.9	1.8	5.1	3.1	3.9	2.4
03/03/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	360	N/A	N/A	2.8	2.5	6.7	5.9	2.1	1.9
03/20/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	397	N/A	N/A	2.4	2.3	2.2	2.1	2.1	2.0
03/31/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	295	N/A	N/A	3.3	2.4	5.0	3.6	7.1	5.1
04/16/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	262	N/A	N/A	3.7	2.4	7.0	4.5	8.5	5.4
04/29/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	173	N/A	N/A	2.8	1.2	4.6	1.9	3.8	1.6
05/13/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	226	N/A	N/A	3.3	1.8	6.8	3.7	6.0	3.3
05/26/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	115	N/A	N/A	4.1	1.2	11.2	3.1	8.9	2.5
06/09/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	149	N/A	N/A	3.4	1.2	11.6	4.2	3.5	1.3
06/23/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	172	N/A	N/A	4.6	1.9	18.1	7.6	8.5	3.6
07/12/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	230	N/A	N/A	4.1	2.3	14.2	8.0	6.9	3.9
07/26/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	179	N/A	N/A	4.5	2.0	24.6	10.8	3.9	1.7
08/09/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	206	N/A	N/A	3.9	2.0	16.4	8.3	4.1	2.1
08/23/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	166	N/A	N/A	3.7	1.5	14.2	5.8	3.9	1.6
09/06/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	104	N/A	N/A	3.6	0.9	16.1	4.1	2.6	0.7
09/20/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	91	N/A	N/A	3.3	0.7	11.9	2.6	2.8	0.6
10/04/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	86	N/A	N/A	3.2	0.7	10.2	2.2	2.8	0.6
10/18/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	113	N/A	N/A	3.8	1.0	10.2	2.8	7.2	2.0
11/01/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	180	N/A	N/A	2.8	1.2	5.2	2.3	3.1	1.4
11/15/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	126	N/A	N/A	3.0	0.9	9.3	2.9	1.9	0.6
11/23/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	120	N/A	N/A	2.7	0.8	5.5	1.6	2.3	0.7
12/13/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	156	N/A	N/A	2.9	1.1	9.6	3.7	1.2	0.5
12/29/00	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	113	N/A	N/A	3.0	0.8	9.8	2.7	1.7	0.5
01/09/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	221	N/A	N/A	3.2	1.7	11.6	6.3	2.3	1.3
01/23/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	144	N/A	N/A	2.9	1.0	9.4	3.3	1.4	0.5
02/06/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	216	N/A	N/A	3.1	1.6	9.0	4.8	2.9	1.5
02/21/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	244	N/A	N/A	3.2	1.9	5.8	3.4	5.8	3.4
03/07/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	685	N/A	N/A	2.5	4.2	4.3	7.2	1.4	2.4
03/21/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	266	N/A	N/A	3.3	2.1	9.4	6.1	4.0	2.6

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
04/04/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	292	N/A	N/A	3.0	2.1	6.3	4.5	3.7	2.7
04/18/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	157	N/A	N/A	3.1	1.2	7.5	2.9	4.1	1.6
05/02/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	143	N/A	N/A	2.9	1.0	4.0	1.4	4.3	1.5
05/16/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	222	N/A	N/A	3.5	1.9	11.9	6.4	4.3	2.3
05/30/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	140	N/A	N/A	3.7	1.3	13.4	4.6	4.8	1.6
06/13/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	139	N/A	N/A	4.3	1.4	12.5	4.2	9.1	3.1
06/27/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	200	N/A	N/A	4.4	2.1	16.3	8.0	7.7	3.8
07/11/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	191	5.7	2.7	4.3	2.0	23.0	10.8	2.9	1.3
07/25/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	193	4.8	2.3	4.3	2.0	15.1	7.1	7.6	3.6
08/07/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	157	3.2	1.2	4.1	1.6	23.5	9.0	1.2	0.5
08/22/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	205	2.5	1.3	3.6	1.8	13.0	6.5	4.0	2.0
09/05/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	50	4.3	0.5	4.0	0.5	9.4	1.1	9.4	1.1
09/19/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	52	3.1	0.4	3.7	0.5	12.5	1.6	5.2	0.7
10/03/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	48	2.6	0.3	3.0	0.3	9.3	1.1	1.9	0.2
10/16/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	158	3.3	1.3	3.5	1.4	7.9	3.1	6.5	2.5
10/30/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	78	N/A	N/A	3.7	0.7	14.0	2.7	4.0	0.8
11/14/01	Salt Slough @Hwy 165	Salt Slough @Hwy 165 (USGS)	205	N/A	N/A	3.3	1.6	10.4	5.2	3.5	1.7
07/11/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	58	6.2	0.9	N/A	N/A	N/A	N/A	N/A	N/A
07/25/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	54	8.6	1.1	N/A	N/A	N/A	N/A	N/A	N/A
08/08/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	59	6.6	1.0	N/A	N/A	N/A	N/A	N/A	N/A
08/22/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	53	6.6	0.9	N/A	N/A	N/A	N/A	N/A	N/A
09/05/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	32	7.2	0.6	N/A	N/A	N/A	N/A	N/A	N/A
09/19/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	15	5.7	0.2	N/A	N/A	N/A	N/A	N/A	N/A
10/03/01	San Luis Drain @Kesterson	San Luis Drain (USGS)	9	6.5	0.1	N/A	N/A	N/A	N/A	N/A	N/A
03/20/00	San Luis Drain-Terminus	San Luis Drain (USGS)	45	N/A	N/A	4.1	0.5	13.4	1.5	7.8	0.9
03/31/00	San Luis Drain-Terminus	San Luis Drain (USGS)	40	N/A	N/A	5.0	0.5	30.0	2.9	3.9	0.4
04/16/00	San Luis Drain-Terminus	San Luis Drain (USGS)	41	N/A	N/A	5.8	0.6	31.3	3.1	9.2	0.9
04/29/00	San Luis Drain-Terminus	San Luis Drain (USGS)	39	N/A	N/A	6.7	0.6	33.8	3.2	14.0	1.3
05/13/00	San Luis Drain-Terminus	San Luis Drain (USGS)	47	N/A	N/A	4.7	0.5	21.8	2.5	6.9	0.8
05/26/00	San Luis Drain-Terminus	San Luis Drain (USGS)	50	N/A	N/A	3.7	0.4	14.2	1.7	3.9	0.5
06/09/00	San Luis Drain-Terminus	San Luis Drain (USGS)	67	N/A	N/A	5.2	0.8	21.7	3.5	10.1	1.7
06/23/00	San Luis Drain-Terminus	San Luis Drain (USGS)	61	N/A	N/A	6.4	1.0	45.5	6.8	4.8	0.7
07/12/00	San Luis Drain-Terminus	San Luis Drain (USGS)	67	N/A	N/A	4.9	0.8	31.0	5.1	2.7	0.4
07/26/00	San Luis Drain-Terminus	San Luis Drain (USGS)	57	N/A	N/A	3.8	0.5	20.8	2.9	1.2	0.2
08/09/00	San Luis Drain-Terminus	San Luis Drain (USGS)	55	N/A	N/A	7.0	0.9	53.9	7.2	4.0	0.5
08/23/00	San Luis Drain-Terminus	San Luis Drain (USGS)	56	N/A	N/A	6.5	0.9	30.9	4.2	14.6	2.0
09/06/00	San Luis Drain-Terminus	San Luis Drain (USGS)	47	N/A	N/A	9.2	1.1	75.5	8.7	7.2	0.8
09/20/00	San Luis Drain-Terminus	San Luis Drain (USGS)	21	N/A	N/A	3.3	0.2	12.4	0.6	2.5	0.1
10/04/00	San Luis Drain-Terminus	San Luis Drain (USGS)	19	N/A	N/A	4.0	0.2	20.7	1.0	2.6	0.1
10/18/00	San Luis Drain-Terminus	San Luis Drain (USGS)	20	N/A	N/A	3.5	0.2	14.0	0.7	3.0	0.1
11/01/00	San Luis Drain-Terminus	San Luis Drain (USGS)	21	N/A	N/A	2.9	0.1	8.1	0.4	1.8	0.1
11/15/00	San Luis Drain-Terminus	San Luis Drain (USGS)	17	N/A	N/A	5.1	0.2	31.5	1.3	3.7	0.2

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
11/23/00	San Luis Drain-Terminus	San Luis Drain (USGS)	22	N/A	N/A	3.0	0.2	8.2	0.4	3.1	0.2
12/13/00	San Luis Drain-Terminus	San Luis Drain (USGS)	24	N/A	N/A	3.8	0.2	13.4	0.8	5.2	0.3
12/29/00	San Luis Drain-Terminus	San Luis Drain (USGS)	22	N/A	N/A	2.6	0.1	6.3	0.3	0.9	0.0
01/09/01	San Luis Drain-Terminus	San Luis Drain (USGS)	27	N/A	N/A	3.5	0.2	14.7	1.0	2.2	0.1
01/23/01	San Luis Drain-Terminus	San Luis Drain (USGS)	30	N/A	N/A	3.5	0.3	17.5	1.3	1.0	0.1
02/06/01	San Luis Drain-Terminus	San Luis Drain (USGS)	53	N/A	N/A	7.4	1.0	40.3	5.2	15.1	2.0
02/21/01	San Luis Drain-Terminus	San Luis Drain (USGS)	58	N/A	N/A	3.9	0.5	15.8	2.2	4.3	0.6
03/07/01	San Luis Drain-Terminus	San Luis Drain (USGS)	79	N/A	N/A	3.6	0.7	16.4	3.2	2.2	0.4
03/21/01	San Luis Drain-Terminus	San Luis Drain (USGS)	55	N/A	N/A	11.1	1.5	69.6	9.4	24.2	3.3
04/04/01	San Luis Drain-Terminus	San Luis Drain (USGS)	38	N/A	N/A	8.6	0.8	57.5	5.3	13.4	1.2
04/18/01	San Luis Drain-Terminus	San Luis Drain (USGS)	34	N/A	N/A	9.6	0.8	75.6	6.3	10.1	0.8
05/02/01	San Luis Drain-Terminus	San Luis Drain (USGS)	30	N/A	N/A	5.1	0.4	29.2	2.1	5.4	0.4
05/16/01	San Luis Drain-Terminus	San Luis Drain (USGS)	40	N/A	N/A	4.7	0.5	23.8	2.3	5.8	0.6
05/30/01	San Luis Drain-Terminus	San Luis Drain (USGS)	46	N/A	N/A	4.4	0.5	19.0	2.1	6.0	0.7
06/13/01	San Luis Drain-Terminus	San Luis Drain (USGS)	59	N/A	N/A	8.0	1.2	62.2	9.0	6.7	1.0
06/27/01	San Luis Drain-Terminus	San Luis Drain (USGS)	50	N/A	N/A	8.3	1.0	55.1	6.7	12.7	1.6
07/11/01	San Luis Drain-Terminus	San Luis Drain (USGS)	58	N/A	N/A	5.6	0.8	24.5	3.5	11.5	1.6
07/25/01	San Luis Drain-Terminus	San Luis Drain (USGS)	54	N/A	N/A	6.6	0.9	47.9	6.3	5.0	0.7
08/07/01	San Luis Drain-Terminus	San Luis Drain (USGS)	61	N/A	N/A	6.9	1.0	57.1	8.5	1.7	0.3
08/22/01	San Luis Drain-Terminus	San Luis Drain (USGS)	53	N/A	N/A	5.4	0.7	32.8	4.3	5.2	0.7
09/05/01	San Luis Drain-Terminus	San Luis Drain (USGS)	32	N/A	N/A	4.1	0.3	16.8	1.3	5.2	0.4
09/19/01	San Luis Drain-Terminus	San Luis Drain (USGS)	15	N/A	N/A	3.6	0.1	10.8	0.4	5.2	0.2
10/03/01	San Luis Drain-Terminus	San Luis Drain (USGS)	9	N/A	N/A	4.0	0.1	17.8	0.4	4.3	0.1
10/16/01	San Luis Drain-Terminus	San Luis Drain (USGS)	19	N/A	N/A	4.3	0.2	21.6	1.0	4.3	0.2
10/30/01	San Luis Drain-Terminus	San Luis Drain (USGS)	17	N/A	N/A	N/A	N/A	75.6	3.1	N/A	N/A
11/14/01	San Luis Drain-Terminus	San Luis Drain (USGS)	37	N/A	N/A	N/A	N/A	67.0	6.1	N/A	N/A
10/12/99	SJR @Hwy 4	N/A	N/A	N/A	N/A	3.3	N/A	6.4	N/A	5.8	N/A
10/26/99	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.9	N/A	4.5	N/A	4.2	N/A
11/09/99	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.5	N/A	2.7	N/A	2.7	N/A
11/30/99	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.6	N/A	2.3	N/A	3.5	N/A
12/21/99	SJR @Hwy 4	N/A	N/A	N/A	N/A	3.0	N/A	6.1	N/A	4.0	N/A
01/08/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	3.9	N/A	7.7	N/A	9.6	N/A
01/22/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.3	N/A	1.7	N/A	1.5	N/A
02/05/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.6	N/A	3.7	N/A	2.2	N/A
02/21/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.6	N/A	3.0	N/A	3.1	N/A
03/03/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.3	N/A	2.1	N/A	1.5	N/A
03/20/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.3	N/A	1.5	N/A	1.8	N/A
03/31/00	SJR @Hwy 4	N/A	N/A	N/A	N/A	2.9	N/A	5.3	N/A	3.6	N/A
10/12/99	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	56	N/A	N/A	12.6	1.7	80.0	11.0	28.8	3.9
10/26/99	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	59	N/A	N/A	3.3	0.5	7.3	1.1	5.5	0.8
11/09/99	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	25	N/A	N/A	9.3	0.6	48.0	2.9	24.0	1.5
11/30/99	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	22	N/A	N/A	9.2	0.5	53.0	2.9	20.1	1.1

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L
12/21/99	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	34	N/A	N/A	5.6	0.5	39.7	3.3	2.6	0.2
01/08/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	13	N/A	N/A	7.0	0.2	29.9	0.9	18.1	0.6
01/22/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	12	N/A	N/A	4.7	0.1	19.5	0.6	7.9	0.2
02/05/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	71	N/A	N/A	4.1	0.7	6.9	1.2	11.2	1.9
02/21/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	941	N/A	N/A	3.5	8.1	8.5	19.6	6.1	14.1
03/03/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	1,576	N/A	N/A	3.5	13.4	10.6	40.8	4.6	17.9
03/20/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	563	N/A	N/A	9.9	13.6	88.8	122.3	3.8	5.2
03/31/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	36	N/A	N/A	5.8	0.5	36.6	3.2	5.7	0.5
04/16/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	43	N/A	N/A	14.6	1.5	52.1	5.5	59.8	6.3
04/29/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	180	N/A	N/A	3.8	1.7	7.7	3.4	8.7	3.8
05/13/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	98	N/A	N/A	9.1	2.2	47.6	11.4	22.6	5.4
05/26/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	81	N/A	N/A	15.2	3.0	88.6	17.5	42.4	8.4
06/09/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	53	N/A	N/A	13.4	1.7	83.2	10.8	32.3	4.2
06/23/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	59	N/A	N/A	11.7	1.7	66.8	9.6	30.2	4.4
07/12/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	122	N/A	N/A	8.5	2.5	56.6	16.9	13.5	4.0
07/26/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	54	N/A	N/A	26.4	3.5	285.7	37.7	5.4	0.7
08/09/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	56	N/A	N/A	34.8	4.8	377.3	51.7	10.8	1.5
08/23/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	57	N/A	N/A	15.7	2.2	75.5	10.5	53.4	7.4
09/06/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	79	N/A	N/A	8.2	1.6	67.8	13.1	4.6	0.9
09/20/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	16	N/A	N/A	3.8	0.1	15.1	0.6	4.4	0.2
10/04/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	22	N/A	N/A	3.9	0.2	17.1	0.9	3.6	0.2
10/18/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	39	N/A	N/A	4.6	0.4	16.7	1.6	9.0	0.9
11/01/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	237	N/A	N/A	3.1	1.8	5.6	3.3	5.0	2.9
11/15/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	41	N/A	N/A	3.6	0.4	14.3	1.4	3.6	0.4
11/23/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	30	N/A	N/A	6.9	0.5	53.8	3.9	3.4	0.2
12/13/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	16	N/A	N/A	7.0	0.3	41.6	1.6	11.3	0.4
12/29/00	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	21	N/A	N/A	5.5	0.3	30.2	1.6	7.6	0.4
01/09/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	44	N/A	N/A	6.1	0.7	33.3	3.6	10.3	1.1
01/23/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	35	N/A	N/A	4.1	0.3	14.4	1.2	6.7	0.6
02/06/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	65	N/A	N/A	5.0	0.8	21.6	3.4	8.9	1.4
02/21/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	48	N/A	N/A	3.7	0.4	9.3	1.1	7.4	0.9
03/07/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	338	N/A	N/A	3.0	2.4	3.4	2.8	5.3	4.4
03/21/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	104	N/A	N/A	5.7	1.5	28.8	7.3	10.1	2.6
04/04/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	73	N/A	N/A	10.7	1.9	105.8	18.9	0.0	0.0
04/18/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	54	N/A	N/A	14.5	1.9	121.0	16.0	18.1	2.4
05/02/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	42	N/A	N/A	16.8	1.7	116.0	11.9	37.1	3.8
05/16/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	27	N/A	N/A	9.4	0.6	64.3	4.2	15.1	1.0
05/30/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	8	N/A	N/A	13.5	0.3	110.9	2.2	16.8	0.3
06/13/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	14	N/A	N/A	14.9	0.5	119.9	4.1	21.6	0.7
06/27/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	26	N/A	N/A	14.0	0.9	113.4	7.2	19.1	1.2
07/11/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	59	16.6	2.4	14.1	2.0	121.0	17.4	15.1	2.2
07/25/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	27	23.8	1.6	11.9	0.8	85.7	5.7	20.2	1.3

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
08/07/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	19	32.6	1.5	36.0	1.7	393.1	18.3	10.1	0.5
08/22/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	24	38.5	2.3	35.1	2.1	347.8	20.4	30.2	1.8
09/05/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	23	39.2	2.2	22.5	1.3	196.6	11.1	30.2	1.7
09/19/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	18	9.4	0.4	18.4	0.8	125.3	5.5	43.2	1.9
10/03/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	29	17.4	1.2	10.8	0.8	80.6	5.7	15.4	1.1
10/16/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	37	10.2	0.9	5.2	0.5	32.4	2.9	4.3	0.4
10/30/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	15	N/A	N/A	7.6	0.3	38.9	1.4	17.3	0.6
11/14/01	SJR @Lander-Hwy 165	SJR @Stevinson (CDEC)	21	N/A	N/A	8.2	0.4	58.0	3.0	10.1	0.5
10/12/99	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,820	N/A	N/A	4.6	20.4	14.7	65.5	10.2	45.6
10/26/99	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,920	N/A	N/A	3.6	17.1	6.6	30.8	8.3	39.1
11/09/99	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,770	N/A	N/A	2.6	11.3	3.1	13.2	3.1	13.2
11/30/99	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,360	N/A	N/A	3.3	11.0	8.1	26.9	5.0	16.7
12/21/99	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,170	N/A	N/A	2.4	7.0	2.4	6.9	2.1	6.1
01/08/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,150	N/A	N/A	2.8	7.8	4.9	13.9	3.1	8.6
01/22/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,750	N/A	N/A	2.6	10.9	3.4	14.5	2.4	10.2
02/05/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,860	N/A	N/A	2.9	13.2	3.2	14.6	5.0	22.7
02/21/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	9,690	N/A	N/A	2.4	57.2	2.1	49.6	2.2	51.2
03/03/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	11,100	N/A	N/A	2.3	63.5	2.1	55.7	1.7	45.4
03/20/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	9,160	N/A	N/A	3.2	72.6	5.6	124.9	6.0	134.6
03/31/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	4,440	N/A	N/A	2.8	30.6	5.2	56.6	3.2	34.7
04/16/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	5,120	N/A	N/A	2.6	32.6	4.3	53.6	2.2	28.0
04/29/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	4,290	N/A	N/A	2.8	29.2	4.8	50.1	3.2	33.9
05/13/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	4,120	N/A	N/A	2.9	28.8	4.9	49.4	3.7	37.4
05/26/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	2,290	N/A	N/A	3.5	19.3	10.8	60.4	4.4	24.9
06/09/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,740	N/A	N/A	4.0	16.8	11.3	48.0	7.7	32.8
06/23/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,170	N/A	N/A	6.3	18.1	36.3	103.8	9.9	28.3
07/12/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,360	N/A	N/A	6.9	22.9	41.3	137.4	10.8	35.8
07/26/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,390	N/A	N/A	6.1	20.7	37.6	127.8	7.3	24.7
08/09/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,340	N/A	N/A	5.1	16.8	36.7	120.1	1.1	3.5
08/23/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	2,250	N/A	N/A	3.5	19.3	15.0	82.6	2.3	12.7
09/06/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,850	N/A	N/A	3.9	17.5	17.5	79.2	3.5	15.7
09/20/00	SJR @Maze-Hwy 132	SJR @Maze (CDEC)	1,810	N/A	N/A	3.0	13.4	5.8	25.8	4.4	19.4
10/04/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,676	N/A	N/A	2.9	11.7	7.2	29.5	2.3	9.3
10/18/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,147	N/A	N/A	2.9	15.1	5.6	29.5	3.4	18.0
11/01/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,661	N/A	N/A	2.7	17.8	4.8	31.5	2.8	18.4
11/15/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,061	N/A	N/A	2.4	12.0	4.5	22.7	0.5	2.7
11/23/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,976	N/A	N/A	2.6	12.5	3.9	18.9	2.4	11.6
12/13/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,834	N/A	N/A	3.5	15.8	5.4	24.1	8.2	36.8
12/29/00	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,775	N/A	N/A	2.6	11.3	5.0	21.9	1.8	7.8
01/09/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,886	N/A	N/A	2.8	13.0	5.9	27.0	2.8	12.8
01/23/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,903	N/A	N/A	2.7	12.7	4.9	22.7	2.8	13.0
02/06/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,799	N/A	N/A	3.0	13.1	8.3	36.4	2.5	11.1

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
			cfs								
02/21/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,310	N/A	N/A	2.9	16.4	4.8	27.1	4.0	22.6
03/07/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	5,308	N/A	N/A	3.8	48.7	7.9	102.8	8.3	107.5
03/21/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,056	N/A	N/A	3.7	18.6	10.4	52.1	6.5	32.6
04/04/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,532	N/A	N/A	2.4	9.1	1.6	5.9	2.6	9.7
04/18/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,516	N/A	N/A	4.1	15.3	9.4	34.7	10.1	37.4
05/02/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,633	N/A	N/A	3.2	20.9	7.8	50.1	4.8	30.6
05/16/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,912	N/A	N/A	3.0	21.4	6.5	46.1	3.8	26.9
05/30/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,256	N/A	N/A	5.5	17.0	27.4	84.0	9.4	28.7
06/13/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	952	N/A	N/A	6.4	14.9	37.0	86.0	10.1	23.5
06/27/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	913	N/A	N/A	7.6	16.9	42.1	94.0	15.1	33.8
07/11/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	788	8.4	16.2	9.1	17.5	68.9	132.7	10.1	19.4
07/25/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	840	9.7	19.9	7.1	14.6	45.4	93.2	10.1	20.7
08/07/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	915	7.6	17.0	6.9	15.5	45.4	101.5	8.6	19.3
08/22/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	921	4.5	10.1	5.2	11.8	25.2	56.7	8.6	19.5
09/05/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	887	9.8	21.3	7.8	17.0	48.7	105.7	13.2	28.5
09/19/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	980	2.7	6.5	4.6	11.0	23.5	56.4	5.0	12.1
10/03/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	992	2.7	6.5	3.3	8.0	13.5	32.7	1.6	3.9
10/16/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,202	2.9	8.5	2.7	7.8	6.5	19.0	1.3	3.8
10/30/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	2,281	N/A	N/A	3.0	16.6	5.0	28.1	4.5	25.1
11/14/01	SJR @Maze-Hwy 132	SJR @Vern - Stan @Ripon (USGS)	1,840	N/A	N/A	3.1	14.0	7.7	34.6	3.8	17.3
04/16/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	5,900	N/A	N/A	2.8	40.1	5.2	75.2	2.9	42.1
04/29/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	5,730	N/A	N/A	2.7	38.2	4.7	66.5	2.8	39.6
05/13/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	5,640	N/A	N/A	2.7	37.3	5.4	74.3	2.3	31.9
05/26/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	4,000	N/A	N/A	3.6	35.1	12.1	118.8	4.6	45.2
06/09/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	3,360	N/A	N/A	3.2	26.3	7.2	59.5	4.8	39.2
06/23/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,010	N/A	N/A	6.2	30.3	39.3	193.0	6.9	34.1
07/12/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,840	N/A	N/A	8.0	36.2	51.7	232.8	12.9	58.2
07/26/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,850	N/A	N/A	7.0	31.6	44.3	200.3	9.7	43.9
08/09/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,760	N/A	N/A	5.5	23.9	40.4	174.0	1.8	7.7
08/23/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,610	N/A	N/A	4.1	26.4	16.7	106.9	5.8	37.2
09/06/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,330	N/A	N/A	5.0	28.6	35.3	201.1	1.1	6.2
09/20/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,290	N/A	N/A	3.1	17.3	8.1	45.3	3.5	19.4
10/04/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,080	N/A	N/A	3.0	15.1	8.1	41.3	2.6	13.4
10/18/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,730	N/A	N/A	2.9	19.3	5.5	36.9	3.6	23.7
11/01/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	3,140	N/A	N/A	2.4	18.6	2.8	21.8	1.8	13.5
11/15/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,460	N/A	N/A	2.5	15.3	4.1	24.4	2.0	11.8
11/23/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,380	N/A	N/A	2.4	14.2	2.6	15.3	2.0	11.8
12/13/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,240	N/A	N/A	3.5	19.3	5.4	29.4	8.2	45.0
12/29/00	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,150	N/A	N/A	2.4	12.8	3.8	19.9	1.4	7.1
01/09/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,280	N/A	N/A	2.7	15.3	6.5	36.1	1.9	10.8
01/23/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,260	N/A	N/A	2.7	14.8	5.6	31.2	2.0	11.0
02/06/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,150	N/A	N/A	2.8	14.5	6.8	35.7	1.9	9.7

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
02/21/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,700	N/A	N/A	2.8	18.3	4.7	30.9	3.2	21.4
03/07/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	5,900	N/A	N/A	6.7	96.9	18.7	270.0	23.0	332.4
03/21/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,450	N/A	N/A	3.6	21.7	10.8	64.7	5.6	33.6
04/04/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,040	N/A	N/A	2.9	14.7	3.9	19.4	4.9	24.4
04/18/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,130	N/A	N/A	3.8	20.0	18.4	95.6	2.7	14.1
05/02/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	4,180	N/A	N/A	3.1	31.5	6.5	66.2	4.3	44.2
05/16/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	4,510	N/A	N/A	2.9	32.0	4.8	52.4	4.1	45.3
05/30/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,980	N/A	N/A	8.1	39.1	57.0	275.7	10.0	48.4
06/13/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,530	N/A	N/A	6.7	24.9	28.6	106.8	16.8	62.8
06/27/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,480	N/A	N/A	8.5	30.8	70.6	255.3	5.0	18.2
07/11/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,350	13.0	42.9	9.8	32.3	60.5	199.6	20.2	66.5
07/25/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,300	7.0	22.2	8.2	26.1	54.2	172.2	12.6	40.0
08/07/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,350	6.0	19.8	8.4	27.8	55.4	183.0	13.4	44.4
08/22/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,340	5.2	17.0	5.1	16.7	25.4	83.2	7.6	24.8
09/05/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,280	6.9	21.6	8.9	27.9	47.0	147.2	21.8	68.4
09/19/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,330	5.0	16.3	4.5	14.7	25.2	81.9	3.6	11.7
10/03/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,330	3.6	11.7	4.1	13.2	15.8	51.5	5.8	18.7
10/16/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	1,510	4.5	16.6	2.6	9.7	6.9	25.5	0.9	3.2
10/30/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,800	N/A	N/A	2.6	17.5	3.9	26.6	2.2	14.8
11/14/01	SJR @Mosssdale-Hwy 120	SJR @Vernalis (USGS)	2,220	N/A	N/A	3.1	16.6	9.1	49.2	2.6	14.1
04/16/00	SJR @Patterson	SJR @Patterson (CDEC)	1,084	N/A	N/A	3.6	9.5	10.8	28.6	5.3	14.1
04/29/00	SJR @Patterson	SJR @Patterson (CDEC)	2,203	N/A	N/A	2.8	15.1	4.9	26.2	3.3	17.8
05/13/00	SJR @Patterson	SJR @Patterson (CDEC)	1,939	N/A	N/A	3.4	15.9	8.6	40.7	5.1	24.0
05/26/00	SJR @Patterson	SJR @Patterson (CDEC)	1,101	N/A	N/A	4.4	11.7	17.5	47.0	6.9	18.7
06/09/00	SJR @Patterson	SJR @Patterson (CDEC)	919	N/A	N/A	4.4	9.8	13.9	31.1	9.2	20.8
06/23/00	SJR @Patterson	SJR @Patterson (CDEC)	767	N/A	N/A	9.2	17.2	61.1	114.6	15.6	29.2
07/12/00	SJR @Patterson	SJR @Patterson (CDEC)	863	N/A	N/A	8.6	18.1	56.1	118.3	14.3	30.2
07/26/00	SJR @Patterson	SJR @Patterson (CDEC)	830	N/A	N/A	8.3	16.8	61.9	125.6	8.7	17.7
08/09/00	SJR @Patterson	SJR @Patterson (CDEC)	800	N/A	N/A	5.8	11.3	38.5	75.3	4.7	9.2
08/23/00	SJR @Patterson	SJR @Patterson (CDEC)	780	N/A	N/A	5.4	10.3	35.4	67.4	3.6	6.9
09/06/00	SJR @Patterson	SJR @Patterson (CDEC)	884	N/A	N/A	4.7	10.2	25.0	54.1	5.0	10.8
09/20/00	SJR @Patterson	SJR @Patterson (CDEC)	657	N/A	N/A	3.5	5.6	11.6	18.6	4.3	6.9
10/04/00	SJR @Patterson	SJR @Patterson (CDEC)	660	N/A	N/A	3.0	4.8	8.5	13.7	2.5	4.0
10/18/00	SJR @Patterson	SJR @Patterson (CDEC)	1,442	N/A	N/A	2.9	10.2	5.1	18.1	3.9	13.6
11/01/00	SJR @Patterson	SJR @Patterson (CDEC)	1,599	N/A	N/A	2.9	11.2	4.5	17.6	3.9	15.2
11/15/00	SJR @Patterson	SJR @Patterson (CDEC)	1,183	N/A	N/A	2.4	7.0	3.6	10.3	1.5	4.2
11/23/00	SJR @Patterson	SJR @Patterson (CDEC)	1,088	N/A	N/A	2.4	6.5	2.8	7.4	2.0	5.3
12/13/00	SJR @Patterson	SJR @Patterson (CDEC)	973	N/A	N/A	2.6	6.2	5.3	12.7	1.7	4.1
12/29/00	SJR @Patterson	SJR @Patterson (CDEC)	893	N/A	N/A	2.5	5.5	4.4	9.7	1.7	3.7
01/09/01	SJR @Patterson	SJR @Patterson (CDEC)	885	N/A	N/A	2.7	5.8	6.2	13.4	1.5	3.3
01/23/01	SJR @Patterson	SJR @Patterson (CDEC)	990	N/A	N/A	2.7	6.5	6.1	14.8	1.8	4.4
02/06/01	SJR @Patterson	SJR @Patterson (CDEC)	995	N/A	N/A	3.1	7.5	9.1	22.2	2.9	7.0

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
02/21/01	SJR @Patterson	SJR @Patterson (CDEC)	1,055	N/A	N/A	3.1	7.9	8.1	20.9	3.2	8.4
03/07/01	SJR @Patterson	SJR @Patterson (CDEC)	2,484	N/A	N/A	2.1	12.6	1.1	6.6	0.3	1.8
03/21/01	SJR @Patterson	SJR @Patterson (CDEC)	1,199	N/A	N/A	3.8	11.1	11.3	33.2	6.5	19.0
04/04/01	SJR @Patterson	SJR @Patterson (CDEC)	909	N/A	N/A	3.1	7.0	8.6	19.2	3.5	7.7
04/18/01	SJR @Patterson	SJR @Patterson (CDEC)	1,184	N/A	N/A	4.3	12.4	20.9	60.4	4.3	12.5
05/02/01	SJR @Patterson	SJR @Patterson (CDEC)	1,192	N/A	N/A	3.6	10.4	10.1	29.4	5.8	16.8
05/16/01	SJR @Patterson	SJR @Patterson (CDEC)	1,766	N/A	N/A	3.2	13.8	7.0	30.3	4.9	21.0
05/30/01	SJR @Patterson	SJR @Patterson (CDEC)	832	N/A	N/A	2.7	5.5	6.3	12.9	1.7	3.5
06/13/01	SJR @Patterson	SJR @Patterson (CDEC)	805	N/A	N/A	5.7	11.3	29.2	57.4	9.7	19.1
06/27/01	SJR @Patterson	SJR @Patterson (CDEC)	647	N/A	N/A	6.1	9.7	37.8	59.8	7.6	12.0
07/11/01	SJR @Patterson	SJR @Patterson (CDEC)	691	7.9	13.3	7.3	12.4	53.8	90.8	6.7	11.4
07/25/01	SJR @Patterson	SJR @Patterson (CDEC)	730	7.7	13.7	8.1	14.4	57.1	102.0	10.1	18.0
08/07/01	SJR @Patterson	SJR @Patterson (CDEC)	680	9.0	15.0	6.1	10.1	36.2	60.3	8.1	13.4
08/22/01	SJR @Patterson	SJR @Patterson (CDEC)	741	6.1	11.1	5.0	9.1	28.8	52.2	5.0	9.1
09/05/01	SJR @Patterson	SJR @Patterson (CDEC)	518	7.4	9.4	5.2	6.6	24.5	31.0	8.6	10.9
09/19/01	SJR @Patterson	SJR @Patterson (CDEC)	361	4.1	3.6	3.5	3.1	14.3	12.6	2.6	2.3
10/03/01	SJR @Patterson	SJR @Patterson (CDEC)	362	5.7	5.0	3.8	3.3	14.8	13.1	4.3	3.8
10/16/01	SJR @Patterson	SJR @Patterson (CDEC)	487	4.3	5.1	2.8	3.4	8.1	9.6	1.6	1.9
10/30/01	SJR @Patterson	SJR @Patterson (CDEC)	966	N/A	N/A	2.8	6.7	5.8	13.6	2.9	6.8
11/14/01	SJR @Patterson	SJR @Patterson (CDEC)	936	N/A	N/A	2.9	6.7	9.4	21.4	1.4	3.3
07/11/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,350	5.9	19.5	5.6	18.5	25.9	85.6	10.8	35.6
07/25/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,300	5.5	17.5	6.5	20.6	39.3	125.0	9.1	28.8
08/07/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,350	5.6	18.5	7.4	24.5	60.5	199.6	3.4	11.1
08/22/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,340	3.2	10.5	5.0	16.5	21.6	70.8	9.4	30.7
09/05/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,280	7.2	22.5	7.0	21.8	50.4	157.7	6.0	18.9
09/19/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,330	2.9	9.4	3.7	12.1	15.1	49.2	3.8	12.3
10/03/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,330	2.1	6.8	3.1	10.0	10.8	35.1	1.7	5.6
10/16/01	SJR @Vernalis	SJR @Vernalis (USGS)	1,510	2.4	8.9	2.8	10.3	6.5	23.9	2.2	8.0
10/30/01	SJR @Vernalis	SJR @Vernalis (USGS)	2,800	N/A	N/A	3.3	22.7	8.6	59.1	4.7	32.0
11/14/01	SJR @Vernalis	SJR @Vernalis (USGS)	2,220	N/A	N/A	2.9	15.7	5.3	29.0	3.7	20.1
03/20/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,652	N/A	N/A	2.1	8.6	0.8	3.3	0.9	3.5
03/31/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	971	N/A	N/A	2.3	5.5	1.6	3.7	1.7	4.1
04/16/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,255	N/A	N/A	2.4	7.3	1.5	4.6	2.2	6.6
04/29/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,565	N/A	N/A	2.2	8.3	1.4	5.2	0.9	3.4
05/13/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,552	N/A	N/A	2.2	8.2	1.1	4.1	0.9	3.4
05/26/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,510	N/A	N/A	2.2	8.0	1.1	4.2	1.0	3.6
06/09/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,596	N/A	N/A	2.1	8.3	0.8	3.0	0.9	3.6
06/23/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	517	N/A	N/A	2.1	2.7	1.0	1.2	0.8	1.0
07/12/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	432	N/A	N/A	2.2	2.3	1.1	1.2	0.9	1.0
07/26/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	420	N/A	N/A	2.2	2.3	1.4	1.4	1.2	1.2
08/09/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	402	N/A	N/A	2.2	2.2	1.2	1.2	1.4	1.4
08/23/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	388	N/A	N/A	2.2	2.1	0.8	0.7	1.5	1.4

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
09/06/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	392	N/A	N/A	2.1	2.0	0.7	0.7	1.0	0.9
09/20/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	395	N/A	N/A	2.1	2.1	0.7	0.6	1.0	1.0
10/04/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	404	N/A	N/A	2.1	2.1	0.8	0.8	1.0	1.0
10/18/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	583	N/A	N/A	2.2	3.1	0.9	1.2	1.1	1.6
11/01/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	479	N/A	N/A	2.1	2.5	0.8	0.9	0.9	1.0
11/15/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	399	N/A	N/A	2.1	2.1	0.8	0.8	0.7	0.7
11/23/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	404	N/A	N/A	2.1	2.0	0.4	0.4	0.7	0.7
12/13/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	406	N/A	N/A	2.1	2.1	1.3	1.3	0.7	0.7
12/29/00	Stanislaus @Caswell Park	Stan @Ripon (USGS)	375	N/A	N/A	2.2	2.0	1.6	1.5	0.8	0.7
01/09/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	394	N/A	N/A	2.3	2.2	3.2	3.1	0.6	0.6
01/23/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	357	N/A	N/A	2.2	1.9	1.4	1.3	0.8	0.7
02/06/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	351	N/A	N/A	2.3	2.0	2.4	2.0	1.3	1.1
02/21/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	390	N/A	N/A	2.4	2.3	2.4	2.3	1.9	1.9
03/07/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	592	N/A	N/A	2.7	3.9	2.0	2.9	4.2	6.0
03/21/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	394	N/A	N/A	2.9	2.8	3.7	3.6	4.9	4.8
04/04/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	508	N/A	N/A	3.0	3.8	7.2	8.9	3.6	4.5
04/18/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	614	N/A	N/A	2.3	3.4	1.7	2.5	1.3	1.9
05/02/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,547	N/A	N/A	2.3	8.6	1.4	5.2	1.6	6.0
05/16/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	1,598	N/A	N/A	2.3	8.9	1.4	5.6	1.6	6.2
05/30/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	724	N/A	N/A	2.3	4.0	1.4	2.5	1.6	2.8
06/13/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	578	N/A	N/A	2.4	3.4	2.4	3.5	2.1	3.0
06/27/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	567	N/A	N/A	3.7	5.1	7.5	10.3	7.9	10.9
07/11/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	562	0.6	0.8	2.2	3.1	1.1	1.5	1.5	2.1
07/25/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	460	1.0	1.1	2.1	2.4	0.9	1.0	0.8	0.9
08/07/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	435	0.7	0.7	2.2	2.3	1.0	1.1	0.9	1.0
08/22/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	419	0.9	0.9	2.3	2.4	1.4	1.5	1.8	1.8
09/05/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	393	0.9	0.9	2.1	2.0	1.2	1.1	0.5	0.5
09/19/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	350	0.9	0.8	2.1	1.8	1.2	1.0	0.6	0.6
10/03/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	338	1.0	0.8	2.1	1.8	1.2	1.0	0.6	0.5
10/16/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	308	0.4	0.3	2.1	1.6	0.8	0.6	0.7	0.5
10/30/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	519	N/A	N/A	2.3	3.0	2.5	3.2	1.3	1.6
11/14/01	Stanislaus @Caswell Park	Stan @Ripon (USGS)	380	N/A	N/A	2.2	2.1	1.7	1.6	1.2	1.1
10/12/99	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	660	N/A	N/A	2.5	4.0	1.7	2.7	2.7	4.4
10/26/99	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	454	N/A	N/A	2.4	2.7	1.6	1.8	2.6	2.8
11/09/99	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	454	N/A	N/A	2.3	2.6	0.4	0.4	2.4	2.6
11/30/99	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	411	N/A	N/A	2.2	2.2	1.8	1.8	0.8	0.8
12/21/99	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	379	N/A	N/A	2.1	2.0	0.4	0.4	1.1	1.0
01/08/00	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	355	N/A	N/A	2.3	2.0	1.9	1.7	1.1	1.0
01/22/00	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	377	N/A	N/A	3.6	3.3	5.5	5.1	8.7	8.0
02/05/00	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	411	N/A	N/A	2.3	2.3	1.2	1.2	1.6	1.6
02/21/00	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	2,318	N/A	N/A	7.7	43.8	32.0	181.4	22.4	127.0
03/03/00	Stanislaus @J6 - Escalon Rd	Stan @Ripon (USGS)	3,322	N/A	N/A	2.1	16.7	0.6	4.9	0.5	3.8

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
				cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L
10/12/99	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	553	N/A	N/A	2.3	3.1	1.1	1.5	1.8	2.4
10/26/99	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	515	N/A	N/A	2.7	3.4	2.6	3.2	3.8	4.8
11/09/99	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	506	N/A	N/A	2.2	2.7	1.1	1.3	1.1	1.3
11/30/99	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	424	N/A	N/A	2.7	2.8	4.2	4.4	3.1	3.2
12/21/99	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	417	N/A	N/A	2.4	2.4	2.2	2.2	1.8	1.8
01/08/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	416	N/A	N/A	2.2	2.2	1.6	1.6	0.9	0.9
01/22/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	503	N/A	N/A	2.5	3.1	3.0	3.7	2.5	3.1
02/05/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	362	N/A	N/A	2.2	1.9	0.8	0.7	1.2	1.0
02/21/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	3,930	N/A	N/A	4.3	41.3	10.3	98.6	10.8	103.8
03/03/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	4,245	N/A	N/A	2.1	21.5	0.6	6.4	0.6	6.2
03/20/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	5,290	N/A	N/A	2.4	30.8	1.9	24.7	2.1	26.6
03/31/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	2,769	N/A	N/A	2.2	14.6	1.0	7.0	1.0	6.7
04/16/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	4,481	N/A	N/A	2.2	24.1	1.2	13.0	1.2	13.2
04/29/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	2,027	N/A	N/A	2.2	11.0	1.5	7.5	1.1	5.4
05/13/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	2,025	N/A	N/A	2.1	10.6	1.1	5.7	0.8	4.1
05/26/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	881	N/A	N/A	2.2	4.8	2.1	4.5	0.9	2.0
06/09/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	617	N/A	N/A	2.3	3.5	1.7	2.6	1.5	2.3
06/23/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	762	N/A	N/A	2.3	4.2	2.0	3.7	1.1	2.0
07/12/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	627	N/A	N/A	2.2	3.4	1.1	1.7	1.6	2.4
07/26/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	692	N/A	N/A	2.1	3.6	0.7	1.2	0.8	1.4
08/09/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	478	N/A	N/A	2.1	2.4	0.5	0.6	0.7	0.9
08/23/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,629	N/A	N/A	2.1	8.5	0.9	3.4	1.0	3.8
09/06/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	825	N/A	N/A	2.1	4.3	0.8	1.5	0.9	1.8
09/20/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,093	N/A	N/A	2.2	5.8	0.8	2.2	1.2	3.2
10/04/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	928	N/A	N/A	2.1	4.9	1.0	2.3	0.9	2.1
10/18/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	588	N/A	N/A	2.2	3.2	1.0	1.5	1.4	2.0
11/01/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	652	N/A	N/A	2.0	3.2	0.4	0.7	0.4	0.6
11/15/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	487	N/A	N/A	2.1	2.5	0.7	0.9	0.5	0.6
11/23/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	497	N/A	N/A	2.0	2.5	0.3	0.4	0.4	0.5
12/13/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	455	N/A	N/A	2.1	2.3	0.6	0.7	0.5	0.6
12/29/00	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	442	N/A	N/A	2.1	2.3	1.4	1.6	0.5	0.6
01/09/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	510	N/A	N/A	2.2	2.7	1.7	2.2	0.9	1.1
01/23/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	456	N/A	N/A	2.2	2.4	1.6	1.8	0.9	1.0
02/06/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	442	N/A	N/A	2.2	2.4	1.6	1.7	1.0	1.1
02/21/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,271	N/A	N/A	2.2	7.0	1.2	3.8	1.4	4.5
03/07/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,850	N/A	N/A	2.5	11.1	1.9	8.5	2.6	11.7
03/21/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	607	N/A	N/A	2.2	3.3	1.8	2.7	0.9	1.3
04/04/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	605	N/A	N/A	2.3	3.4	1.9	2.8	1.4	2.1
04/18/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	566	N/A	N/A	2.4	3.3	3.2	4.4	1.1	1.6
05/02/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,507	N/A	N/A	2.2	8.1	1.2	4.5	1.2	4.5
05/16/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	1,078	N/A	N/A	2.3	6.0	1.5	4.0	1.4	3.8
05/30/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	433	N/A	N/A	2.3	2.4	2.7	2.8	1.0	1.1

Appendix A. Flow, BOD, chlorophyll and pheophytin concentrations and loads in the San Joaquin River watershed. Data from UC Davis.

Date	Sampling Site	Flow Site	Flow	BOD ₁₀		Apparent BOD ₁₀		Chlorophyll a		Pheophytin	
				(conc)	(load)	(conc)	(load)	(conc)	(load)	(conc)	(load)
			cfs	mg/L	kg	mg/L	kg	ug/L	kg	ug/L	kg
06/13/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	336	N/A	N/A	2.6	2.1	2.4	2.0	3.0	2.5
06/27/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	340	N/A	N/A	2.8	2.4	4.3	3.6	3.8	3.2
07/11/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	215	1.0	0.5	2.2	1.2	2.4	1.3	0.5	0.3
07/25/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	315	1.2	0.9	2.3	1.8	3.3	2.6	0.6	0.4
08/07/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	303	1.4	1.0	2.5	1.8	3.2	2.4	1.9	1.4
08/22/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	327	1.5	1.2	2.6	2.1	3.7	2.9	2.4	1.9
09/05/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	327	1.0	0.8	2.3	1.8	2.1	1.7	1.0	0.8
09/19/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	336	1.3	1.1	2.3	1.9	2.5	2.1	1.4	1.2
10/03/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	327	1.0	0.8	2.3	1.9	3.2	2.5	0.9	0.7
10/16/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	328	0.7	0.6	2.4	1.9	2.9	2.3	1.7	1.4
10/30/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	289	N/A	N/A	2.5	1.8	3.6	2.5	1.9	1.4
11/14/01	Tuolomne @Shiloh Rd	Tuol @Modesto (USGS)	269	N/A	N/A	2.2	1.5	1.9	1.2	1.0	0.7