Appendix E: Water Quality Tables

Table E-1. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 7/29/15, examining the toxicity of ambient surface water samples collected on 7/28/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.40	7.97	7.66	8.41	8.29	8.08	7.99	8.37	289	24.7	23.7	22.7	24.7
Mokelumne	8.35	7.86	7.60	8.57	8.30	8.00	8.00	8.30	120	24.8	23.9	22.7	24.8
Hood	8.56	7.99	7.61	8.59	8.15	8.10	7.78	8.16	131	24.8	23.6	22.8	24.8
SJR @ Vernalis	8.26	7.97	7.56	8.91	8.45	8.51	8.20	8.55	899	25.1	23.7	22.9	25.1
SJR @ Buckley	8.25	8.02	7.64	8.55	8.41	8.22	8.14	8.43	1304	24.8	23.7	22.4	24.8
Ulatis Creek	8.01	7.92	7.53	8.36	8.19	8.48	8.17	8.65	670	24.7	23.7	22.7	24.7
Bottle Blank	8.33	7.85	7.64	8.53	8.33	7.93	7.66	8.33	285	24.7	23.8	22.8	24.7

Table E-2. Summary of water quality measurements during a *C. dubia* toxicity retest initiated on 8/7/15, examining the toxicity of ambient surface water samples collected on 7/28/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	8.10	7.62	7.62	8.46	8.17	7.76	7.76	8.31	269	25.1	24.4	23.4	25.1
Mokelumne	8.12	7.62	7.62	8.48	8.14	7.74	7.74	8.29	137	25.3	24.4	23.5	25.3
Hood	8.08	7.69	7.69	8.49	8.17	7.80	7.80	8.29	144	25.4	24.4	23.5	25.4
SJR @ Vernalis	8.12	7.69	7.68	8.38	8.51	8.30	8.01	8.62	942	25.3	24.4	23.6	25.3
SJR @ Buckley	8.09	7.82	7.75	8.51	8.38	8.09	8.09	8.54	1356	25.3	24.4	23.7	25.3
Ulatis Creek	8.07	7.77	7.65	8.36	8.57	8.50	8.33	8.80	696	25.1	24.4	23.5	25.1
Bottle Blank	8.06	7.96	7.72	8.52	8.20	7.87	7.87	8.30	264	25.2	24.3	23.4	25.2

Table E-3. Summary of water quality measurements during a *S. capricornutum* toxicity test initiated on 7/29/15, examining the toxicity of ambient surface waters collected on 7/28/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.17	9.75	8.17	9.75	7.75	9.32	7.67	9.32	98	24.3	24.6	24.3	24.6
Mokelumne	8.24	11.03	8.24	11.03	8.24	9.41	8.16	9.41	200	24.3	24.2	24.2	24.3
Hood	8.32	11.62	8.32	11.62	8.11	9.41	8.11	9.41	210	23.8	24.6	23.8	24.6
SJR @ Vernalis	8.36	10.64	8.36	10.64	8.34	9.21	8.34	9.21	955	23.9	24.1	23.9	24.1
SJR @ Buckley	8.39	8.45	8.39	8.45	8.36	8.64	8.36	8.64	1359	24.2	24.3	24.2	24.3
Ulatis Creek	8.40	13.70	8.40	13.70	8.41	9.46	8.41	9.46	756	24.0	24.6	24.0	24.6
Bottle Blank	8.12	9.53	8.12	9.53	7.76	9.21	7.72	9.21	90	23.7	24.5	23.7	24.5

Table E-4. Summary of water quality measurements during an *S. capricornutum* toxicity follow-up test initiated on 8/8/15, examining the toxicity of ambient surface water samples collected on 7/28/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.21	8.07	8.07	8.21	7.71	8.73	7.71	8.73	91	23.8	23.0	23.0	23.8
Mokelumne	8.33	8.20	8.20	8.33	8.08	9.11	8.08	9.11	203	24.2	22.9	22.9	24.2
SJR @ Buckley	8.34	8.24	8.24	8.34	8.24	8.96	8.24	8.96	1394	24.1	22.8	22.6	24.1

Table E-5. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 8/19/15, examining the toxicity of ambient surface water samples collected on 8/18/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.35	7.42	7.42	8.35	8.39	7.85	7.76	8.39	299	24.4	25.7	23.6	25.7
Hood	8.23	7.51	7.40	8.29	8.27	7.93	7.46	8.41	171	24.3	25.3	23.3	25.4
Mokelumne	8.47	7.53	7.49	8.59	8.21	7.79	7.79	8.29	131	24.2	25.3	23.6	25.4
SJR @ Buckley	8.25	7.55	7.37	8.49	8.34	8.05	8.05	8.45	1277	24.2	25.4	23.3	25.5
Dup: SJR @ Buckley	8.29	7.79	7.49	8.86	8.24	8.07	7.97	8.46	1251	24.0	24.7	23.1	25.5
SJR @ Vernalis	8.34	7.53	7.33	8.56	8.38	8.21	8.16	8.55	615	24.0	25.6	23.1	25.6
Ulatis Creek	8.60	7.75	7.37	8.60	8.37	8.42	8.31	8.73	703	23.8	24.8	23.1	25.3
Bottle Blank	8.28	7.51	7.46	8.45	8.38	7.85	7.85	8.38	293	23.8	25.4	23.1	25.4

Table E-6. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated on 8/19/15, examining the toxicity of ambient surface water samples collected on 8/18/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.60	8.89	8.60	8.89	7.83	8.90	7.81	8.90	94	21.9	24.3	21.9	24.3
Hood	8.62	11.16	8.62	11.16	8.10	9.65	8.10	9.65	239	21.8	24.2	21.8	24.2
Mokelumne	8.57	10.80	8.57	10.80	8.23	9.32	8.23	9.32	205	22.0	24.2	22.0	24.2
SJR @ Buckley	8.48	10.31	8.48	10.31	8.28	9.25	8.28	9.25	1321	22.0	24.0	22.0	24.0
Dup: SJR @ Buckley	8.55	10.95	8.55	10.95	8.24	9.18	8.24	9.18	1327	22.1	24.2	22.1	24.2
SJR @ Vernalis	8.66	11.96	8.66	11.96	8.30	9.56	8.30	9.56	653	22.0	24.5	22.0	24.5
Ulatis Creek	8.63	14.57	8.63	14.57	8.45	9.65	8.45	9.65	780	22.0	24.8	22.0	24.8
Bottle Blank	8.60	9.22	8.60	9.22	7.83	9.34	7.83	9.34	95	22.1	24.8	22.1	24.8

Table E-7. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 9/25/15, examining the toxicity of ambient surface water samples collected on 9/23/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.06	8.29	7.76	8.29	8.19	8.16	7.89	8.37	278	24.5	23.5	23.1	24.5
Hood	8.01	8.17	7.76	8.51	8.21	8.20	7.83	8.27	187	25.2	23.5	23.2	25.2
Mokelumne	8.19	8.14	7.90	8.38	8.14	8.14	7.96	8.26	196	25.3	23.7	23.1	25.3
SJR @ Buckley	8.59	8.10	7.81	8.59	7.87	8.28	7.87	8.40	1347	25.1	23.6	23.0	25.1
SJR @ Vernalis	8.09	8.05	7.88	8.41	8.01	8.34	8.00	8.39	771	25.3	23.6	22.2	25.3
Ulatis Creek	8.02	7.86	7.78	8.40	8.25	8.49	8.18	8.58	1056	25.3	23.2	22.9	25.3

Table E-8. Summary of water quality measurements during a *P. promelas* Pathogen-Related Toxicity follow-up test initiated on 10/1/15, examining the toxicity of ambient surface water samples collected on 9/23/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.22	8.05	7.88	8.30	8.26	7.44	7.44	8.95	290	25.1	24.3	23.2	25.1
Mokelumne	9.86	7.87	7.65	9.86	8.28	7.44	7.44	8.68	204	25.3	24.1	23.6	24.7

Table E-9. Summary of water quality measurements during a *C. dubia* toxicity test initiated on 9/24/15, examining the toxicity of ambient surface water samples collected on 9/23/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	7.80	6.20	5.30	8.00	8.35	8.02	7.84	8.38	290	24.0	24.0	24.0	24.0
Hood	8.20	5.30	5.30	8.20	8.27	7.97	7.81	8.38	179	24.0	24.0	24.0	24.0
Mokelumne	8.20	5.30	5.30	8.20	8.25	7.95	7.81	8.27	198	24.0	24.0	24.0	24.0
SJR @ Buckley	8.00	4.10	4.10	8.20	7.84	7.61	7.53	7.92	1392	24.0	24.0	24.0	24.0
SJR @ Vernalis	8.10	4.90	4.90	8.10	7.86	7.68	7.58	7.94	699	24.0	24.0	24.0	24.0
Ulatis Creek	7.40	5.00	5.00	8.20	7.66	7.59	7.43	8.02	1040	24.0	24.0	24.0	24.0

Table E-10. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated on 9/24/15 examining the toxicity of ambient surface water samples collected on 9/23/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.50	8.17	8.17	8.50	7.85	8.11	7.74	8.11	92	22.8	25.6	22.8	25.6
Hood	8.58	8.28	8.28	8.58	8.02	9.06	8.02	9.06	243	22.9	25.6	22.9	25.6
Mokelumne	8.60	8.12	8.12	8.60	8.14	8.89	8.14	8.89	255	22.8	25.9	22.8	25.9
SJR @ Buckley	8.57	8.13	8.13	8.57	8.13	8.65	8.13	8.65	1405	22.8	25.6	22.8	25.6
SJR @ Vernalis	8.47	8.15	8.15	8.47	8.19	8.75	8.19	8.75	709	22.7	25.6	22.7	25.6
Ulatis Creek	8.59	8.18	8.18	8.59	8.29	9.53	8.29	9.53	1023	22.8	25.6	22.8	25.6

Table E-11. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 10/22/15, examining the toxicity of ambient surface waters collected on 10/21/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.08	8.16	7.55	8.38	8.18	7.85	7.85	8.30	293	24.9	22.9	22.9	24.9
Hood	8.38	8.00	7.92	8.38	8.03	7.83	7.83	8.28	167	24.8	22.8	22.8	24.8
Mokelumne	8.34	8.20	7.95	8.35	7.79	7.50	7.50	8.09	62	24.6	22.9	22.7	24.7
SJR @ Buckley	8.32	7.99	7.65	8.32	8.26	8.15	7.76	8.32	870	25.2	23.0	22.7	25.2
SJR @ Vernalis	8.29	8.08	7.70	8.93	8.02	8.05	7.87	8.35	451	24.9	23.0	22.7	24.9
Ulatis Creek	8.22	7.92	7.45	8.96	8.11	8.40	8.11	8.59	927	25.0	23.1	22.7	25.0
Dup: SJR @ Vernalis	8.23	8.19	7.80	8.83	8.23	8.04	7.90	8.36	281	24.9	22.8	22.7	24.9
Bottle Blank	8.22	8.22	7.56	8.45	8.07	7.59	7.59	8.38	457	25.0	23.0	22.5	25.0
Low EC Control	8.33	8.15	7.89	8.36	7.86	7.81	7.52	8.35	79	24.8	23.2	22.0	24.8

Table E-12. Summary of water quality measurements during a *P. promelas* Pathogen-Related Toxicity follow-up test initiated 10/29/15, examining the toxicity of ambient surface water samples collected 10/21/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	NR	7.80	6.86	8.06	NR	8.04	7.56	8.15	NR	NR	25.1	23.7	25.2
Mokelumne	NR	7.75	6.82	8.36	NR	7.83	7.34	7.90	NR	NR	24.5	23.4	25.2
SJR @ Vernalis	NR	7.83	7.40	8.51	NR	8.11	7.92	8.21	NR	NR	24.3	23.2	25.4
Bottle Blank	NR	7.93	7.31	8.39	NR	7.99	7.68	8.00	NR	NR	24.1	23.2	25.3

NR: Not Reported. Sample was dumped prior to measuring initial water quality at test initiation, due to technician error.

Table E-13. Summary of water quality measurements during a *C. dubia* toxicity test initiated on 10/22/15, examining the toxicity of ambient surface water samples collected on 10/21/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	8.16	7.74	7.36	8.25	8.20	7.82	7.81	8.20	312	24.9	24.5	24.4	25.5
Hood	8.22	7.97	7.42	8.24	8.24	7.86	7.86	8.24	183	24.9	23.8	23.8	25.3
Mokelumne	8.26	7.99	7.37	8.26	7.95	7.46	7.46	7.95	79	24.8	23.9	23.9	25.2
SJR @ Buckley	8.24	7.85	7.47	8.55	8.41	8.11	7.89	8.41	868	24.7	23.9	23.4	25.2
SJR @ Vernalis	8.38	7.98	7.72	8.38	8.39	8.02	7.99	8.39	519	24.7	23.9	23.9	25.5
Ulatis Creek	8.53	7.83	7.58	8.53	8.51	8.40	8.24	8.54	1057	24.7	23.6	23.4	25.6
Dup: SJR @ Vernalis	8.45	7.84	7.55	8.45	8.33	7.97	7.97	8.33	495	24.6	23.7	23.2	25.3
Bottle Blank	8.18	7.89	7.69	8.64	8.38	7.82	7.79	8.38	448	24.7	24.1	23.4	25.0
Low EC Control	8.48	7.90	7.55	8.48	7.90	7.43	7.43	7.90	64	24.6	23.7	23.7	25.1

Table E-14. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated on 10/22/15, examining the toxicity of ambient surface water samples collected on 10/21/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.32	8.02	8.02	8.32	7.60	7.85	7.60	7.85	106	24.0	24.2	24.0	24.2
Hood	8.55	8.56	8.55	8.56	8.02	8.15	8.02	8.16	246	24.2	24.7	24.2	24.7
Mokelumne	8.42	8.11	8.11	8.42	7.81	7.97	7.81	7.97	144	24.3	24.5	24.3	24.5
SJR @ Buckley	8.47	8.23	8.23	8.47	8.10	8.42	8.10	8.43	923	24.2	24.7	24.2	24.7
SJR @ Vernalis	8.56	8.28	8.28	8.56	8.00	8.55	8.00	8.55	526	24.3	24.7	24.3	24.7
Ulatis Creek	8.40	8.91	8.40	8.91	8.26	9.25	8.26	9.25	983	24.4	24.8	24.4	24.8
Dup: SJR @ Vernalis	8.52	8.24	8.24	8.52	8.01	8.59	8.01	8.59	527	24.5	24.5	24.5	24.5
Bottle Blank	8.37	8.18	8.18	8.37	7.72	7.84	7.52	7.84	98	24.4	24.5	24.4	24.5

Table E-15. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 11/11/15, examining the toxicity of ambient surface water samples collected on 11/10/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.26	7.75	7.75	8.37	8.17	7.84	7.84	8.20	280	23.7	23.2	22.1	23.9
Hood	8.41	7.67	7.67	8.63	8.10	7.83	7.83	8.17	193	24.0	23.3	22.2	24.0
Mokelumne	8.42	7.37	7.37	8.79	8.10	7.58	7.30	8.10	59	23.8	22.8	22.6	24.0
SJR @ Buckley	8.46	7.53	7.53	8.46	8.00	7.78	7.78	8.19	370	24.0	23.3	22.2	24.0
SJR @ Vernalis	8.46	7.59	7.59	8.46	8.00	7.74	7.74	8.21	250	24.0	23.0	22.1	24.0
Ulatis Creek	8.38	7.61	7.61	8.53	8.31	8.34	8.22	8.54	990	23.8	23.1	22.4	23.8
Low EC Control	8.40	7.28	7.28	8.40	7.81	7.64	7.20	8.18	81	23.7	23.0	22.3	23.9

Table E-16. Summary of water quality measurements during a *C. dubia* toxicity test initiated 11/11/15, examining the toxicity of ambient surface water samples collected on 11/10/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	8.09	7.82	7.63	8.18	8.16	7.93	7.92	8.25	300	24.1	23.9	23.9	25.0
Hood	8.14	8.05	7.51	8.28	8.05	7.88	7.88	8.19	191	24.6	23.5	23.5	24.9
Mokelumne	8.15	7.99	7.44	8.47	7.86	7.64	7.36	8.04	64	24.8	23.2	23.2	24.8
SJR @ Buckley	8.16	8.06	7.71	8.21	8.16	7.72	7.72	8.21	371	24.7	23.4	23.4	24.8
SJR @ Vernalis	8.10	8.16	7.48	8.32	8.17	7.76	7.76	8.25	249	24.7	23.6	23.6	24.7
Ulatis Creek	8.12	8.05	7.60	8.31	8.49	8.42	8.22	8.62	1031	24.8	23.5	23.5	24.8
Low EC Control	8.17	8.24	7.68	8.30	7.81	7.52	7.46	8.14	63	24.4	23.5	23.5	24.8

Table E-17. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated 11/11/15, examining the toxicity of ambient surface water samples collected 11/10/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.39	8.24	8.24	8.39	7.63	7.95	7.63	7.95	92	23.3	24.8	23.3	24.8
Hood	8.46	8.25	8.25	8.46	7.91	9.49	7.91	9.49	255	23.5	24.9	23.5	24.9
Mokelumne	8.50	8.40	8.40	8.50	7.79	9.37	7.79	9.37	141	23.4	24.8	23.4	24.8
SJR @ Buckley	8.48	8.48	8.48	8.48	7.98	9.04	7.98	9.04	433	23.5	24.9	23.5	24.9
SJR @ Vernalis	8.54	8.52	8.52	8.54	7.99	9.69	7.99	9.69	318	23.6	24.9	23.6	24.9
Ulatis Creek	8.60	8.55	8.55	8.60	8.29	9.46	8.29	9.46	1038	23.6	24.9	23.6	24.9

Table E-18. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 12/16/15, examining the toxicity of ambient surface water samples collected on 12/15/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.44	8.11	8.01	8.55	8.10	8.02	7.92	8.31	292	24.9	23.7	22.0	24.9
Hood	8.36	8.25	8.10	8.52	8.15	8.06	7.99	8.31	189	24.4	23.4	22.0	24.4
SJR @ Buckley	8.40	8.28	8.09	8.60	8.11	8.08	7.98	8.28	592	24.6	23.5	22.0	24.6
SJR @ Vernalis	8.63	8.37	8.12	8.63	8.00	8.18	8.00	8.37	501	24.5	23.3	22.1	24.5
Ulatis Creek	8.56	8.24	7.95	8.61	8.20	8.43	8.20	8.45	799	24.4	23.5	22.1	24.4
Dup: Hood	8.41	8.14	8.12	8.63	8.09	8.11	8.02	8.48	191	24.4	23.5	22.1	24.4
PRT: ROEPAMH	8.40	7.77	7.52	8.40	8.13	8.11	7.67	8.32	267	24.2	24.4	23.3	27.0
PRT: Mokelumne	8.62	7.72	7.49	8.62	7.86	7.82	7.44	8.03	66	25.2	24.6	23.2	25.9
PRT: Low EC Control	8.37	7.62	7.44	8.43	7.87	7.91	7.22	8.06	68	24.3	24.5	23.1	25.1

Table E-19. Summary of water quality measurements during a *C. dubia* toxicity retest initiated on 12/16/15, examining the toxicity of ambient surface water samples collected on 12/15/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	8.30	7.40	7.40	8.30	8.13	7.79	7.79	8.26	260	23.9	23.8	23.8	25.1
Hood	8.50	7.46	7.46	8.50	8.18	7.81	7.81	8.33	186	23.9	23.6	23.4	24.7
Mokelumne	8.23	7.52	7.52	8.36	7.86	7.47	7.47	8.13	64	24.9	23.9	23.1	24.9
SJR @ Buckley	8.23	7.47	7.44	8.32	8.22	7.85	7.85	8.27	584	23.8	23.8	23.0	24.7
SJR @ Vernalis	8.33	7.50	7.25	8.41	8.19	7.86	7.86	8.35	499	23.8	23.7	23.3	24.8
Ulatis Creek	8.30	7.62	7.27	8.41	8.26	8.27	8.26	8.50	797	23.8	23.7	23.4	25.2
Dup: Hood	8.48	7.78	7.21	8.48	8.22	7.93	7.93	8.35	187	23.8	23.8	23.3	25.0
Low EC Control	8.36	7.76	7.44	8.36	7.81	7.39	7.39	8.06	66	23.7	23.6	22.8	25.0

Table E-20. Summary of water quality measurements during a *S. capricornutum* toxicity test initiated on 12/16/15, examining the toxicity of ambient surface waters collected on 12/15/15 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.66	8.66	8.66	8.66	7.02	8.76	7.02	8.76	90	23.5	25.3	23.2	25.3
Hood	8.72	10.67	8.72	10.67	7.91	9.66	7.91	9.66	268	23.4	25.3	23.4	25.3
Mokelumne	8.61	10.71	8.61	10.71	7.68	9.51	7.68	9.51	147	23.4	24.9	23.4	25.0
SJR @ Buckley	8.50	10.66	8.50	10.66	7.94	9.65	7.94	9.65	667	23.3	25.3	23.3	25.4
SJR @ Vernalis	8.69	10.59	8.69	10.59	8.00	9.48	8.00	9.48	573	23.4	25.2	23.4	25.2
Ulatis Creek	8.58	10.99	8.58	10.99	8.18	9.58	8.18	9.58	869	23.5	24.9	23.5	25.3
Dup: Hood	8.58	10.53	8.58	10.53	8.01	9.63	8.01	9.63	270	23.2	24.4	23.2	24.8

Table E-21. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 1/20/16, examining the toxicity of ambient surface water samples collected on 1/19/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	7.86	7.75	7.75	8.33	8.29	8.05	7.87	8.29	274	24.7	23.7	22.9	24.8
Hood	7.88	7.76	7.68	8.48	8.30	7.93	7.88	8.30	152	24.9	23.7	22.8	24.9
SJR @ Buckley	7.91	7.55	7.55	8.55	8.22	7.91	7.62	8.22	419	25.1	23.8	22.8	25.1
SJR @ Vernalis	8.01	7.73	7.73	8.56	8.33	8.06	7.75	8.33	445	24.9	23.8	22.7	24.9
Ulatis Creek	7.83	7.40	7.31	8.40	8.11	7.80	7.57	8.11	153	25.0	23.8	22.7	25.0
Dup: Ulatis Creek	7.78	7.39	7.39	8.51	8.11	7.85	7.57	8.28	155	25.3	23.9	22.6	25.3
PRT: ROEPAMH	7.92	8.11	7.38	8.34	8.25	8.08	7.69	8.25	278	24.0	23.4	22.4	24.7
PRT: Mokelumne	7.86	7.97	7.51	8.45	8.02	7.66	7.32	8.02	64	23.9	23.9	23.1	24.8
PRT: Low EC Control	7.92	8.13	7.54	8.39	7.77	7.57	7.15	7.85	67	23.9	23.4	21.6	25.4

Table E-22. Summary of water quality measurements during a *C. dubia* toxicity test initiated on 1/20/16, examining the toxicity of ambient surface water samples collected on 1/19/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	7.98	7.62	7.29	8.24	8.31	7.57	7.57	8.31	286	24.8	25.0	23.1	25.1
Hood	8.04	7.70	7.42	8.26	8.22	7.73	7.69	8.22	142	24.7	25.0	22.6	25.0
Mokelumne	8.02	7.60	7.45	8.24	7.99	7.38	7.25	7.99	55	24.5	25.3	22.6	25.3
SJR @ Buckley	7.99	7.50	7.50	7.99	8.30	7.92	7.92	8.30	407	24.4	24.9	24.4	24.9
SJR @ Vernalis	7.99	7.66	7.50	8.44	8.33	7.81	7.77	8.33	437	24.4	25.1	22.6	25.1
Ulatis Creek	7.84	6.93	5.90	8.29	8.22	7.59	7.53	8.22	147	24.5	24.6	23.2	26.2
Dup: Ulatis Creek	7.81	6.34	5.95	8.26	8.11	7.52	7.49	8.11	143	24.4	24.5	22.8	26.1
Low EC Control	8.03	7.70	7.58	8.35	7.94	7.32	7.32	7.94	62	24.3	24.5	22.7	26.0

Table E-23. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated on 1/20/16, examining the toxicity of ambient surface water samples collected on 1/19/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	7.86	8.43	7.86	8.43	7.91	7.9	7.53	7.94	92	25.7	25.3	25.2	25.7
Hood	8.13	8.93	8.13	8.93	8.17	9.1	8.06	9.10	232	25.8	25.2	24.5	25.8
Mokelumne	7.94	9.23	7.94	9.23	7.96	8.8	7.88	8.78	144	25.9	24.6	24.6	25.9
SJR @ Buckley	8.02	9.06	8.02	9.06	8.15	8.8	8.08	8.75	491	26.0	25.1	24.7	26.0
SJR @ Vernalis	8.00	9.11	8.00	9.11	8.22	9.1	8.21	9.07	532	25.7	25.2	24.8	25.7
Ulatis Creek	8.04	8.98	8.04	8.98	8.19	9.0	8.08	9.03	231	25.7	25.1	24.3	25.7
Dup: Ulatis Creek	8.01	8.95	8.01	8.95	8.12	9.0	8.10	9.03	228	25.9	24.8	24.8	25.9

Table E-24. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 2/18/16, examining the toxicity of ambient surface water samples collected on 2/17/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	7.55	8.14	7.52	8.38	8.14	7.92	7.87	8.22	288	24.1	23.2	23.0	24.1
Hood	8.12	8.22	7.20	8.35	8.28	8.02	7.91	8.28	191	23.9	23.1	23.0	23.9
SJR @ Buckley	7.73	8.11	7.28	8.40	8.03	8.05	7.95	8.18	592	24.2	23.4	22.9	24.2
SJR @ Vernalis	7.35	8.18	7.18	8.42	8.26	8.22	8.14	8.26	952	24.2	23.3	23.0	24.2
Ulatis Creek	7.67	8.13	7.67	8.56	8.47	8.51	8.27	8.54	1095	24.0	23.3	22.7	24.0
Field Blank	7.65	8.17	7.65	8.48	8.21	7.91	7.86	8.22	290	24.3	23.2	22.9	24.3
PRT: ROEPAMH	8.19	NR	6.90	8.20	8.21	NR	7.70	8.21	282	23.9	NR	23.9	25.9
PRT: Mokelumne	7.97	NR	6.51	8.31	7.91	NR	7.30	7.91	75	24.0	NR	24.0	26.7
PRT: Low EC Control	8.10	NR	6.79	8.29	7.83	NR	7.20	7.96	70	24.0	NR	24.0	26.0

NR: Not reported. Sample was dumped prior to measuring final water quality at test termination, due to technician error.

Table E-25. Summary of water quality measurements during a *C. dubia* toxicity test initiated on 2/18/16, examining the toxicity of ambient surface water samples collected on 2/17/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	7.98	7.70	6.61	8.20	8.25	7.97	7.86	8.25	311	24.0	25.0	24.0	25.4
Hood	8.18	7.55	7.18	8.35	8.31	8.01	7.94	8.31	200	24.2	24.7	24.1	25.5
Mokelumne	8.22	7.58	7.37	8.48	8.10	7.58	7.58	8.10	70	24.1	24.8	24.1	25.6
SJR @ Buckley	8.14	7.59	7.34	8.52	8.31	8.05	7.94	8.31	587	24.0	24.1	24.0	25.5
SJR @ Vernalis	8.09	7.47	6.83	8.35	8.46	8.20	8.15	8.46	942	23.9	24.7	23.9	25.5
Ulatis Creek	8.11	7.64	6.65	8.40	8.68	8.54	8.33	8.68	1070	24.0	25.0	23.8	25.4
Field Blank	8.16	7.52	6.51	8.42	8.28	7.93	7.81	8.28	295	24.0	24.9	23.7	25.5
Low EC Control	8.09	7.71	6.67	8.50	8.02	7.55	7.42	8.56	75	23.9	24.8	23.9	25.3

Table E-26. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated on 2/18/16 examining the toxicity of ambient surface water samples collected on 2/17/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	6.31	8.20	6.31	8.20	9.10	7.74	7.73	9.10	134	19.8	24.8	19.8	25.3
Hood	7.87	8.80	7.87	8.80	7.94	9.06	7.94	9.06	270	19.7	24.9	19.7	25.3
Mokelumne	8.02	8.45	8.02	8.45	7.89	9.07	7.89	9.07	150	19.8	25.6	19.8	25.8
SJR @ Buckley	7.91	8.37	7.91	8.37	8.06	8.85	8.06	8.85	640	20.3	25.8	20.3	25.8
SJR @ Vernalis	7.97	8.41	7.97	8.41	8.17	9.10	8.17	9.10	1017	20.8	25.8	20.8	25.9
Ulatis Creek	8.01	8.75	8.01	8.75	8.38	8.95	8.38	8.95	1175	21.1	25.5	21.1	25.5
Field Blank	7.88	8.47	7.88	8.47	7.77	8.24	7.77	8.24	93	21.4	24.9	21.4	25.2

Table E-27. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 3/8/16, examining the toxicity of ambient surface waters collected on 3/7/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.03	7.68	7.68	8.52	8.25	7.83	7.83	8.25	291	24.7	23.2	21.3	24.7
Hood	8.06	7.84	7.72	8.54	8.16	7.78	7.78	8.18	163	24.6	23.4	20.5	24.6
SJR @ Buckley	8.05	7.93	7.57	8.49	8.27	7.88	7.88	8.27	648	24.7	23.1	22.2	24.7
SJR @ Vernalis	8.11	7.90	7.63	8.45	8.39	7.90	7.90	8.39	728	24.6	23.2	21.7	24.6
Ulatis Creek	8.12	8.03	7.62	8.40	8.25	7.89	7.89	8.25	220	24.5	23.4	22.4	24.5
PRT: ROEPAMH	8.08	7.82	6.92	8.24	8.22	7.91	7.71	8.22	285	24.4	23.4	23.1	24.9
PRT: Mokelumne	8.10	7.90	7.20	8.33	7.87	7.52	7.42	7.99	73	24.3	23.1	23.1	24.7
PRT: Low EC Control	8.06	7.70	7.31	8.36	7.75	7.49	7.31	8.00	65	24.4	23.3	23.3	25.2

Table E-28. Summary of water quality measurements during a *P. promelas* Pathogen-Related Toxicity follow-up test initiated 3/15/16, examining the toxicity of 510SACC3A collected 3/7/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.04	NR	6.99	8.43	8.12	NR	7.84	8.31	280	24.7	NR	24.1	25.8
Hood	8.14	NR	7.01	8.34	8.02	NR	7.75	8.26	144	25.0	NR	24.2	25.3

NR: Not Reported. Sample dumped prior to final water quality measurements, due to technician error.

Table E-29. Summary of water quality measurements during a *C. dubia* toxicity test initiated on 3/8/16, examining the toxicity of ambient surface water samples collected on 3/7/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	8.07	7.58	7.58	8.25	8.17	7.90	7.78	8.27	308	24.1	24.7	23.6	24.7
Hood	8.09	7.62	7.48	8.33	8.13	7.78	7.78	8.17	143	23.8	24.6	23.6	24.6
Mokelumne	8.10	7.51	7.42	8.21	7.76	7.36	7.36	7.89	59	23.9	24.4	23.0	24.4
SJR @ Buckley	8.08	7.48	7.48	8.35	8.16	7.87	7.87	8.32	643	23.9	24.4	23.5	24.4
SJR @ Vernalis	8.10	7.55	7.23	8.38	8.31	8.02	8.02	8.43	720	23.9	24.4	23.3	24.4
Ulatis Creek	8.06	7.33	7.33	8.58	8.23	7.89	7.89	8.29	211	24.0	24.4	23.4	24.4
Low EC Control	8.08	7.67	7.46	8.41	7.76	7.29	7.29	8.02	63	24.0	24.4	23.4	24.4

Table E-30. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated on 3/8/16, examining the toxicity of ambient surface water samples collected on 3/7/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.36	8.28	8.28	8.36	7.63	8.40	7.30	8.40	91	23.6	25.1	23.6	25.1
Hood	8.42	8.85	8.42	8.85	7.87	9.45	7.87	9.45	222	23.7	25.3	23.7	25.3
Mokelumne	8.53	8.40	8.40	8.53	7.69	8.90	7.69	8.90	142	23.5	24.5	23.5	24.5
SJR @ Buckley	8.49	8.47	8.47	8.49	7.94	9.15	7.94	9.15	693	23.6	25.4	23.6	25.4
SJR @ Vernalis	8.54	8.69	8.54	8.69	8.12	9.46	8.12	9.46	784	23.7	25.3	23.7	25.3
Ulatis Creek	8.50	8.95	8.50	8.95	8.07	9.46	8.05	9.46	287	23.4	24.6	23.4	24.6

Table E-31. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 4/20/16, examining the toxicity of ambient surface water samples collected on 4/19/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.45	8.28	7.50	8.45	8.11	8.05	7.76	8.27	296	24.9	23.0	23.0	24.9
Hood	8.41	8.27	7.42	8.41	8.08	8.03	7.61	8.14	130	24.7	23.1	23.0	24.7
SJR @ Buckley	8.36	8.20	7.45	8.44	8.13	8.20	7.97	8.24	844	24.7	23.1	23.1	24.7
SJR @ Vernalis	8.51	8.39	7.59	8.51	8.12	8.03	7.71	8.22	373	24.6	23.2	23.2	24.6
Ulatis Creek	8.40	8.17	7.21	8.40	8.61	8.53	7.94	8.78	800	24.6	23.2	23.2	24.6
Dup: Hood	8.40	8.35	7.39	8.50	8.26	8.26	7.94	8.34	839	24.6	22.8	22.8	24.6
PRT: ROEPAMH	8.33	NR	4.73	8.55	8.14	NR	7.43	8.26	290	24.2	NR	23.3	25.1
PRT: Mokelumne	8.39	NR	3.63	8.55	7.93	NR	6.97	7.98	62	23.9	NR	23.9	25.1
PRT: Low EC Control	8.42	8.34	6.75	8.60	7.69	7.75	7.10	7.94	80	24.1	24.2	24.1	26.0

NR: Not reported. Sample was dumped prior to final water quality measurements at test termination, due to technician error.

Table E-32. Summary of water quality measurements during a *C. dubia* toxicity test initiated 4/20/16, examining the toxicity of ambient surface water samples collected on 4/19/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	8.45	7.80	7.53	8.87	8.04	8.01	7.95	8.24	240	23.6	25.2	23.6	25.8
Hood	8.39	7.90	7.53	8.46	8.01	7.87	7.87	8.23	131	23.5	25.1	23.5	25.1
Mokelumne	8.40	7.96	7.64	8.44	7.79	7.58	7.58	8.26	61	23.8	25.0	23.8	25.1
SJR @ Buckley	8.51	8.01	7.63	8.51	8.21	8.08	8.08	8.36	840	23.7	25.2	23.7	25.2
SJR @ Vernalis	8.50	7.99	7.62	8.52	8.11	7.90	7.90	8.20	374	23.6	25.2	23.6	25.3
Ulatis Creek	8.46	7.96	7.50	8.46	8.60	8.42	5.56	8.78	793	23.5	25.0	23.5	25.0
Dup: SJR @ Buckley	8.51	8.03	7.50	8.53	8.24	8.17	8.16	8.45	844	23.7	25.1	23.7	25.1
Low EC Control	8.56	8.15	7.98	8.56	7.65	7.71	7.53	8.29	70	23.6	25.1	23.6	25.1

Table E-33. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated 4/20/16, examining the toxicity of ambient surface water samples collected 4/19/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.33	8.16	8.16	8.33	7.53	8.1	7.53	8.13	92	23.2	26.0	23.2	26.0
Hood	8.38	8.73	8.38	8.73	7.82	8.7	7.82	8.73	209	23.2	26.0	23.2	26.0
Mokelumne	8.36	8.47	8.36	8.47	7.74	9.4	7.74	9.44	140	23.2	25.9	23.2	25.9
SJR @ Buckley	8.42	7.84	7.84	8.42	8.02	8.5	8.02	8.50	907	23.2	25.8	23.2	25.8
SJR @ Vernalis	8.38	7.94	7.94	8.38	7.96	8.4	7.96	8.35	444	23.2	25.9	23.2	25.9
Ulatis Creek	8.40	8.60	8.40	8.60	8.65	9.3	8.65	9.31	842	23.2	25.9	23.2	25.9
Dup: SJR @ Buckley	8.37	7.88	7.88	8.37	8.02	8.5	8.02	8.46	884	23.3	25.8	23.3	25.8

Table E-34. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 5/19/16, examining the toxicity of ambient surface water samples collected on 5/18/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.16	8.09	7.90	8.56	8.13	8.00	7.98	8.32	269	24.4	23.9	25.0	24.4
Hood	8.10	8.03	7.87	8.45	8.12	7.90	7.89	8.13	119	23.9	23.9	24.9	23.9
SJR @ Buckley	8.14	8.05	7.88	8.50	8.02	7.79	7.47	8.12	263	24.1	23.7	24.8	24.1
SJR @ Vernalis	8.11	7.82	7.82	8.56	8.12	7.94	7.94	8.37	300	24.0	24.0	24.9	24.0
Ulatis Creek	8.15	7.96	7.89	8.55	8.56	8.45	7.88	8.64	750	23.8	23.8	25.0	23.8
PRT: ROEPAMH	8.13	8.07	7.22	8.42	8.12	7.90	7.80	8.22	272	23.1	23.1	25.3	23.1
PRT: Mokelumne	8.20	7.87	7.40	8.40	7.74	7.61	7.30	7.98	75	23.6	23.3	25.7	23.6
PRT: Low EC Control	7.88	8.11	7.25	8.57	7.77	7.55	7.44	7.98	72	22.8	22.8	25.3	22.8

Table E-35. Summary of water quality measurements during a *C. dubia* toxicity test initiated 5/19/16, examining the toxicity of ambient surface water samples collected on 5/18/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	8.17	7.68	7.47	8.42	8.06	7.83	7.83	8.20	310	24.4	24.5	24.4	25.8
Hood	8.03	7.71	7.37	8.36	8.08	7.77	7.69	8.17	110	24.3	24.6	24.3	25.8
Mokelumne	8.09	7.65	7.30	8.31	7.79	7.58	7.52	7.97	58	24.3	24.5	24.3	25.7
SJR @ Buckley	8.12	7.62	7.44	8.42	7.93	7.57	7.57	8.11	274	24.4	24.5	24.4	25.8
SJR @ Vernalis	8.14	7.60	7.36	8.45	8.07	7.78	7.75	8.30	329	24.2	24.6	24.2	25.9
Ulatis Creek	8.10	7.72	7.37	8.38	8.60	8.41	8.20	8.65	757	24.3	24.5	24.3	27.1
Low EC Control	8.15	7.70	7.53	8.70	8.05	7.65	7.46	8.05	69	24.2	24.4	24.2	25.7

Table E-36. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated 5/19/16, examining the toxicity of ambient surface water samples collected 5/18/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	7.82	8.03	7.82	8.03	7.64	7.9	7.64	8.08	97	26.4	27.0	26.4	27.0
Hood	7.91	8.20	7.91	8.20	7.87	9.0	7.87	9.03	202	26.0	27.0	26.0	27.0
Mokelumne	7.89	8.39	7.89	8.39	7.71	9.0	7.71	8.96	142	26.1	26.6	26.1	26.6
SJR @ Buckley	7.92	7.86	7.86	7.92	7.83	8.1	7.83	8.34	367	26.1	26.5	26.1	26.5
SJR @ Vernalis	7.96	7.88	7.88	7.96	8.10	8.1	8.10	8.40	404	26.0	26.5	26.0	26.5
Ulatis Creek	7.93	8.63	7.93	8.63	8.25	9.3	8.25	9.25	868	25.7	26.6	25.7	26.6

Table E-37. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 6/16/16, examining the toxicity of ambient surface water samples collected on 6/15/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.05	8.03	7.61	8.48	8.05	7.75	7.75	8.27	419	24.3	23.5	21.1	24.8
Hood	8.07	7.90	7.64	8.40	8.06	7.83	7.80	8.18	162	24.5	23.3	21.0	24.9
SJR @ Buckley	8.03	7.77	7.56	8.35	8.12	7.88	7.88	8.16	581	24.7	23.8	21.0	25.0
SJR @ Vernalis	8.31	7.94	7.76	8.42	8.43	8.03	8.03	8.79	427	24.7	23.5	21.3	24.9
Ulatis Creek	7.89	7.70	7.53	8.56	8.57	8.49	8.32	8.60	945	24.4	23.8	21.3	24.8
Field Blank	8.11	7.92	7.60	8.50	8.11	7.95	7.94	8.31	317	24.6	24.0	21.0	24.8
PRT: ROEPAMH	8.09	7.81	7.33	8.36	8.11	7.70	7.70	8.21	302	24.7	24.4	24.3	25.4
PRT: Mokelumne	8.09	7.84	7.49	8.32	7.75	7.60	7.60	7.98	93	24.5	24.3	24.2	25.7
PRT: Low EC Control	NR	7.90	7.50	8.39	NR	7.32	7.32	7.96	NR	NR	24.3	24.2	25.7

NR: Not reported. Sample was lost prior to initial water quality measurements at test initiation, due to technician error.

Table E-38. Summary of water quality measurements during a *C. dubia* toxicity test initiated 6/16/16, examining the toxicity of ambient surface water samples collected on 6/15/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	8.29	7.45	7.30	8.36	8.23	7.64	7.64	8.23	272	24.2	23.7	23.7	25.7
Hood	8.26	7.24	7.24	8.29	8.15	7.55	7.55	8.18	118	24.0	23.8	23.8	25.6
Mokelumne	8.35	7.13	7.13	8.35	7.92	7.30	7.30	8.01	74	24.1	23.9	23.9	25.5
SJR @ Buckley	8.24	7.28	7.23	8.36	8.15	7.62	7.62	8.23	538	24.1	23.8	23.8	25.6
SJR @ Vernalis	8.46	7.74	7.30	8.59	8.68	7.92	7.92	8.68	379	24.0	24.6	24.0	25.3
Ulatis Creek	8.18	7.05	7.05	8.44	8.63	8.46	8.16	8.63	887	23.9	24.7	23.9	25.2
Low EC Control	8.29	7.56	7.56	8.29	7.88	7.46	7.43	7.99	82	24.1	23.8	23.8	25.3
Field Blank	8.19	7.47	7.47	8.19	8.22	7.68	7.68	8.23	286	24.4	24.2	24.2	25.6

Table E-39. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated 6/16/16, examining the toxicity of ambient surface water samples collected 6/15/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.05	8.34	8.05	8.34	7.41	8.2	6.88	8.19	95	25.7	25.3	25.3	25.7
Hood	8.19	8.56	8.19	8.56	7.84	8.8	7.84	8.77	186	25.6	25.4	25.4	25.6
Mokelumne	8.25	9.03	8.25	9.03	7.83	9.2	7.77	9.20	136	25.8	25.3	25.3	25.8
SJR @ Buckley	8.09	8.05	8.05	8.09	8.01	8.3	8.01	8.32	619	25.7	25.2	25.2	25.7
SJR @ Vernalis	8.39	8.28	8.28	8.39	8.61	8.4	8.19	8.61	492	25.6	25.3	25.3	25.6
Ulatis Creek	8.05	8.63	8.05	8.63	8.34	9.1	8.34	9.08	1000	25.8	25.3	25.3	25.8
Field Blank	8.14	8.72	8.14	8.72	7.72	8.6	7.63	8.56	111	25.7	25.2	25.2	25.7

Table E-40. Summary of water quality measurements during a *P. promelas* toxicity test initiated on 7/14/16, examining the toxicity of ambient surface water samples collected on 7/13/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
ROEPAMH	8.01	8.13	7.70	8.50	8.24	8.16	7.97	8.33	262	24.6	23.3	22.6	24.6
Hood	8.06	8.02	7.73	8.31	8.23	8.05	7.77	8.35	110	24.7	23.2	23.2	24.7
SJR @ Buckley	8.07	8.10	7.64	8.22	8.18	8.12	7.91	8.24	451	24.6	23.2	23.0	24.6
SJR @ Vernalis	8.06	8.50	7.84	8.69	9.01	8.47	8.35	9.01	550	24.8	23.2	22.9	24.8
Ulatis Creek	8.11	7.89	7.64	8.29	8.45	8.56	8.29	8.64	895	24.8	23.1	23.1	24.8
PRT: ROEPAMH	8.14	8.00	7.07	8.44	8.28	8.09	7.93	8.28	260	24.6	24.6	23.8	24.6
PRT: Mokelumne	8.20	7.92	7.05	8.45	8.19	7.91	7.58	8.19	58	24.5	24.3	23.9	24.8
PRT: Dup Mokelumne	8.24	7.95	7.01	8.45	8.13	7.82	7.55	8.13	56	24.6	24.2	24.0	24.9
PRT: Low EC Control	8.18	8.08	7.10	8.61	8.04	7.69	7.22	8.04	58	24.7	24.3	24.0	24.8

Table E-41. Summary of water quality measurements during a *C. dubia* toxicity test initiated 7/14/16, examining the toxicity of ambient surface water samples collected on 7/13/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
L1650	8.25	7.51	7.24	8.42	8.12	7.91	7.83	8.28	252	24.5	25.3	23.7	25.3
Hood	8.10	7.48	6.84	8.51	8.24	7.84	7.69	8.24	106	24.9	24.7	23.6	24.9
Mokelumne	8.11	7.56	6.90	8.62	8.16	7.59	7.57	8.16	54	24.5	24.5	23.6	24.5
SJR @ Buckley	8.05	7.43	7.02	8.46	8.19	7.88	7.58	8.27	439	24.8	24.2	23.3	24.8
SJR @ Vernalis	8.30	7.87	7.31	8.50	8.58	8.23	8.13	8.94	517	24.6	24.5	23.3	24.6
Ulatis Creek	8.06	7.73	6.93	8.34	8.60	8.50	8.41	8.77	867	24.6	24.3	23.5	24.6
Dup: Mokelumne	8.11	7.53	7.16	8.54	8.18	7.60	7.55	8.18	112	24.6	24.0	23.3	24.6
Low EC Control	8.14	7.91	7.13	8.41	8.11	7.63	7.57	8.32	82	24.9	24.2	23.3	24.9

Table E-42. Summary of water quality measurements during an *S. capricornutum* toxicity test initiated 7/14/16, examining the toxicity of ambient surface water samples collected 7/13/16 by USGS.

Sample	DO (mg/L)				pH				Initial EC (µS/cm)	Temperature (°C)			
	Initial	Final	Min	Max	Initial	Final	Min	Max		Initial	Final	Min	Max
Distilled Water	8.24	9.63	8.24	9.63	8.10	9.17	7.71	9.17	106	24.6	24.5	24.5	24.6
Hood	8.25	10.61	8.25	10.61	8.12	9.50	8.02	9.50	192	24.5	24.6	24.5	24.6
Mokelumne	8.30	12.41	8.30	12.41	8.05	9.67	7.83	9.67	145	24.8	24.4	24.4	24.8
SJR @ Buckley	8.22	9.22	8.22	9.22	8.18	8.73	8.18	8.73	590	24.7	24.6	24.6	24.7
SJR @ Vernalis	8.47	11.50	8.47	11.50	8.92	9.43	8.39	9.43	646	24.6	24.5	24.5	24.6
Ulatis Creek	8.23	12.59	8.23	12.59	8.32	9.36	8.32	9.36	992	24.7	24.5	24.5	24.7
Dup: Mokelumne	8.27	11.73	8.27	11.73	8.12	9.63	8.12	9.63	163	24.9	24.3	24.3	24.9