

Jenner Boat Ramp	Time	Temperature	pH	Total Organic Nitrogen	Ammonia as N	Ammonia as N Unionized	Nitrate as N	Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen**	Phosphorus, Total	Total Orthophosphate	Dissolved Organic Carbon	Total Organic Carbon	Total Dissolved Solids	Turbidity	Chlorophyll-a	Total Coliforms (Colilert)	Total Coliforms Diluted 1:10 (Colilert)	E. coli (Colilert)	E. coli Diluted 1:10 (Colilert)	Enterococcus (Enterolert)	USGS 11467000 RR near Guerneville (Hacienda)***
MDL*				0.200	0.10	0.00010	0.030	0.030	0.10		0.020	0.020	0.0400	0.0400	4.2	0.020	0.000050	20		20		2	Flow Rate****
Date		°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	MPN/100mL	MPN/100mL	MPN/100mL	MPN/100mL	MPN/100mL	(cfs)
5/15/2014	9:40:00	18.4	8.4	ND	0.21	0.013	2.0	ND	0.24	2.2	0.06	0.13	1.22	1.13	10000	2.2	0.00068	>2419.6	----	16.8	----	15	147
5/20/2014	9:40:00	16.9	8.3	ND	0.070	0.0032	ND	ND	0.24	0.24	0.056	0.12	1.06	1.28	11000	2.4	0.0011	>2419.6	----	4.1	----	8.6	109
5/27/2014	9:40:00	18.9	8.1	0.28	0.070	0.0024	ND	ND	0.35	0.35	0.067	0.12	1.46	1.51	9700	2.6	0.0079	>2419.6	----	1.0	----	1.0	85
6/3/2014	10:00:00	16.2	8.0	0.21	ND	ND	ND	ND	0.21	0.21	0.067	0.13	1.09	1.07	11000	2.7	0.0056	>2419.6	----	3.0	----	3.1	105
6/10/2014	9:40:00	19.0	8.6	ND	0.10	0.011	ND	ND	0.24	0.24	0.035	0.13	1.20	1.03	10000	2.5	0.00074	>2419.6	6131	74.9	85	195.6	106
6/17/2014	8:40:00	15.6	8.2	ND	ND	ND	ND	ND	ND	0.10	0.051	0.13	0.801	0.939	19000	2.7	0.00031	2419.6	7270	5.2	<10	33.7	96
6/24/2014	9:20:00	18.2	8.1	0.49	ND	ND	ND	ND	0.49	0.49	0.11	0.17	1.19	1.05	16000	20	0.019	>2419.6	24196	81.3	<10	145.5	94
7/1/2014	9:20:00	17.5	8.2	0.21	ND	ND	ND	ND	0.21	0.21	0.047	0.088	1.13	0.974	15000	2.4	0.0014	>2419.6	4884	222.4	120	344.1	100
7/8/2014	10:20:00	19.0	8.1	0.56	ND	ND	ND	ND	0.56	0.56	0.053	0.11	1.51	1.45	10000	5.9	0.0019	>2419.7	14136	22.3	10	22.6	95
7/15/2014	9:30:00	18.2	7.9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	>2419.6	10462	579.4	20	435.2	134
7/22/2014	9:50:00	19.7	7.9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	>2419.6	10462	28.8	10	613.1	132

Casini Ranch	Time	Temperature	pH	Total Organic Nitrogen	Ammonia as N	Ammonia as N Unionized	Nitrate as N	Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen**	Phosphorus, Total	Total Orthophosphate	Dissolved Organic Carbon	Total Organic Carbon	Total Dissolved Solids	Turbidity	Chlorophyll-a	Total Coliforms (Colilert)	Total Coliforms Diluted 1:10 (Colilert)	E. coli (Colilert)	E. coli Diluted 1:10 (Colilert)	Enterococcus (Enterolert)	USGS 11467000 RR near Guerneville (Hacienda)***
MDL*				0.200	0.10	0.00010	0.030	0.030	0.10		0.020	0.020	0.0400	0.0400	4.2	0.020	0.000050	20		20		2	Flow Rate****
Date		°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	MPN/100mL	MPN/100mL	MPN/100mL	MPN/100mL	MPN/100mL	(cfs)
5/15/2014	10:00:00	22.5	8.4	ND	0.070	0.0071	0.12	ND	ND	0.30	0.058	0.12	1.78	1.88	190	2.0	0.0011	1553.1		21.8		13.2	147
5/20/2014	10:10:00	22.0	8.4	ND	0.070	0.0068	0.11	ND	ND	0.28	0.056	0.12	1.54	2.02	180	2.5	0.0020	1732.9		2.0		6.3	109
5/27/2014	10:10:00	22.3	8.2	0.21	ND	ND	0.13	ND	0.21	0.34	0.064	0.14	1.63	2.03	190	2.3	0.0031	>2419.6		6.3		5.2	85
6/3/2014	10:30:00	21.1	8.1	0.24	ND	ND	0.12	ND	0.24	0.37	0.081	0.12	1.61	1.92	160	2.0	0.0014	1553.1		4.1		2.0	105
6/10/2014	11:10:00	22.6	8.9	ND	ND	ND	0.12	ND	ND	0.30	0.044	0.11	2.03	1.55	170	1.6	ND	>2419.6	2909	9.8	20	3.0	106
6/17/2014	9:00:00	20.6	8.9	ND	ND	ND	ND	ND	ND	0.14	0.047	0.12	1.72	2.11	160	1.0	0.00021	>2419.6	2143	5.1	<10	6.2	96
6/24/2014	9:50:00	23.4	8.4	ND	ND	ND	ND	ND	ND	0.18	0.057	0.13	2.04	2.36	150	3.6	0.0015	>2419.6	1918	6.3	10	17.7	94
7/1/2014	9:40:00	22.4	8.2	0.28	ND	ND	0.12	ND	0.28	0.40	0.058	0.14	1.61	2.05	150	1.4	0.0014	>2419.6	2909	<1.0	<10	13.2	100
7/8/2014	10:40:00	22.8	8.0	ND	0.21	0.0097	0.12	ND	0.32	0.44	0.055	0.11	1.88	2.50	140	1.8	0.0026	1732.9	1401	4.1	<10	5.2	95
7/15/2014	9:50:00	24.1	8.2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1413.6	1500	5.1	10	11.8	134
7/22/2014	10:10:00	23.0	8.4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1203.3	1956	3.0	10	4.1	132

Patterson Point	Time	Temperature	pH	Total Organic Nitrogen	Ammonia as N	Ammonia as N Unionized	Nitrate as N	Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen**	Phosphorus, Total	Total Orthophosphate	Dissolved Organic Carbon	Total Organic Carbon	Total Dissolved Solids	Turbidity	Chlorophyll-a	Total Coliforms (Colilert)	Total Coliforms Diluted 1:10 (Colilert)	E. coli (Colilert)	E. coli Diluted 1:10 (Colilert)	Enterococcus (Enterolert)	USGS 11467000 RR near Guerneville (Hacienda)***
MDL*				0.200	0.10	0.00010	0.030	0.030	0.10		0.020	0.020	0.0400	0.0400	4.2	0.020	0.000050	20		20		2	Flow Rate****
Date		°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	MPN/100mL	MPN/100mL	MPN/100mL	MPN/100mL	MPN/100mL	(cfs)
5/15/2014	10:30:00	21.3	8.3	ND	0.21	0.016	0.13	ND	0.32	0.44	0.051	0.11	1.49	1.87	180	1.9	0.0018	1553.1		7.5		2.0	147
5/20/2014	10:30:00	21.6	8.2	ND	0.070	0.0044	0.11	ND	0.21	0.32	0.055	0.13	1.64	2.17	190	2.8	0.0024	1732.9		4.1		3.1	109
5/27/2014	10:40:00	22.7	8.0	ND	0.070	0.0030	0.13	ND	0.24	0.38	0.063	0.15	1.76	1.96	180	2.4	0.0043	>2419.6		4.1		6.3	85
6/3/2014	10:50:00	21.5	8.0	0.24	ND	ND	0.12	ND	0.24	0.37	0.081	0.98	1.51	1.87	160	2.2	0.0021	1203.3		8.6		10.6	105
6/10/2014	11:30:00	24.2	8.6	0.21	ND	ND	ND	ND	0.21	0.21	0.034	0.097	1.32	2.29	170	1.9	0.00092	2419.6	1850	39.3	52	22.1	106
6/17/2014	9:20:00	21.9	8.5	ND	ND	ND	ND	ND	ND	0.14	0.046	0.12	1.62	2.05	170	3.0	ND	1732.9	1872	4.1	<10	29.9	96
6/24/2014	10:10:00	24.0	8.2	0.32	ND	ND	ND	ND	0.32	0.32	0.054	0.12	1.60	1.94	150	3.0	0.0010	>2419.6	1553	16.1	<10	66.8	94
7/1/2014	10:00:00	24.1	7.9	0.21	ND	ND	0.13	ND	0.21	0.34	0.054	0.12	1.54	1.97	160	2.2	0.0013	>2419.6	4611	12	<10	55.6	100
7/8/2014	11:00:00	23.4	7.8	0.32	ND	ND	0.12	ND	0.32	0.44	0.050	0.11	1.81	2.18	140	4.6	0.0018	1986.3	2595	13.4	20	7.2	95
7/15/2014	10:10:00	23.6	7.9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1986.3	2247	8.6	10	19.3	134
7/22/2014	10:30:00	22.1	8.1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1686.3	3255	11.0	31	14.6	132

Monte Rio	Time	Temperature	pH	Total Organic Nitrogen	Ammonia as N	Ammonia as N Unionized	Nitrate as N	Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen**	Phosphorus, Total	Total Orthophosphate	Dissolved Organic Carbon	Total Organic Carbon	Total Dissolved Solids	Turbidity	Chlorophyll-a	Total Coliforms (Colilert)	Total Coliforms Diluted 1:10 (Colilert)	E. coli (Colilert)	E. coli Diluted 1:10 (Colilert)	Enterococcus (Enterolert)	USGS 11467000 RR near Guerneville (Hacienda)***
MDL*				0.200	0.10	0.00010	0.030	0.030	0.10		0.020	0.020	0.0400	0.0400	4.2	0.020	0.000050	20		20		2	Flow Rate****
Date		°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	MPN/100mL	MPN/100mL	MPN/100mL	MPN/100mL	MPN/100mL	(cfs)
5/15/2014	10:50:00	21.6	8.3	ND	0.21	0.016	0.12	ND	ND	0.29	0.048	0.11	1.49	1.91	180	1.9	0.0018	1553.1		11.8		11.0	147
5/20/2014	11:00:00	21.3	8.3	ND	0.070	0.0053	0.12	ND	0.21	0.33	0.060	0.12	1.63	2.13	180	2.7	0.0027	>2419.6		12.2		11.0	109
5/27/2014	11:10:00	23.2	8.1	ND	0.070	0.0039	0.13	ND	ND	0.31	0.057	0.13	1.68	1.94	170	3.1	0.0037	>2419.6		7.5		2.0	85
6/3/2014	11:10:00	21.6	8.1	ND	ND	ND	0.12	ND	ND	0.30	0.099	0.094	1.52	1.85	160	2.1	0.0017	2419.6		7.5		6.3	105
6/10/2014	12:00:00	24.4	8.7	ND	0.070	0.014	ND	ND	ND	0.14	0.040	0.10	1.58	2.14	160	1.8	0.00055	2419.6	1515	18.7	10	4.1	106
6/17/2014	9:40:00	21.9	8.5	ND	ND	ND	ND	ND	ND	0.18	0.041	0.11	1.58	1.98	150	1.7	0.00073	1732.9	1985	7.4	10	18.7	96
6/24/2014	10:30:00	23.3	8.2	ND	ND	ND	ND	ND	ND	0.10	0.045	0.12	1.61	1.82	140	1.8	0.0010	1553.1	1187	14.5	31	44.8	94
7/1/2014	10:20:00	24.4	8.0	ND	ND	ND	ND	ND	ND	0.18	0.050	0.13	1.53	1.95	150	3.1	0.0023	>2419.6	1956	22	10	24.7	100
7/8/2014	11:30:00	24.1	8.0	ND	ND	ND	ND	ND	ND	0.14	0.045	0.087	1.79	2.25	140	2.6	0.0020	2419.6	1935	14.5	10	6.3	95
7/15/2014	10:30:00	24.0	8.0	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2419.6	1989	4.1	<10	7.3	134
7/22/2014	10:50:00	22.3	8.1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2419.6	1500	4.1	20	23.8	132

Vacation Beach	Time	Temperature	pH	Total Organic Nitrogen	Ammonia as N	Ammonia as N Unionized	Nitrate as N	Nitrite as N	Total Kjeldahl Nitrogen	Total Nitrogen**	Phosphorus, Total	Total Orthophosphate	Dissolved Organic Carbon	Total Organic Carbon	Total Dissolved Solids	Turbidity	Chlorophyll-a	Total Coliforms (Coliort)	Total Coliforms Diluted 1:10 (Coliort)	E. coli (Coliort)	E. coli Diluted 1:10 (Coliort)	Enterococcus (Enterolort)	USGS 11467000 RR near Guerneville (Hacienda)***
MDL*				0.200	0.10	0.00010	0.030	0.030	0.10		0.020	0.020	0.0400	0.0400	4.2	0.020	0.000050	20		20		2	Flow Rate****
Date		°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	MPN/100mL	MPN/100mL	MPN/100mL	MPN/100mL	MPN/100mL	(cfs)
5/15/2014	11:10:00	21.5	8.4	ND	0.070	0.0066	0.11	ND	0.21	0.32	0.046	0.094	1.54	1.83	180	1.8	0.0026	1413.6		9.7		8.5	147
5/20/2014	11:10:00	20.7	8.3	ND	0.070	0.0055	0.11	ND	0.24	0.36	0.056	0.12	1.67	2.12	180	2.9	0.0026	1986.3		8.4		9.7	109
5/27/2014	11:30:00	22.9	8.2	ND	0.070	ND	0.13	ND	0.21	0.34	0.041	0.11	1.72	1.96	170	2.2	0.0034	>2419.6		17.3		5.2	85
6/3/2014	11:30:00	21.1	8.0	0.35	ND	ND	0.13	ND	0.35	0.48	0.059	0.078	1.56	1.82	150	1.8	0.0017	>2419.6		16.0		26.6	105
6/10/2014	12:20:00	23.6	8.6	ND	0.070	0.012	0.12	ND	ND	0.26	0.041	0.11	1.57	2.14	190	1.7	0.00037	>2419.6	3143	15.6	20	6.3	106
6/17/2014	10:00:00	21.6	8.3	ND	ND	ND	ND	ND	ND	ND	0.039	0.091	1.82	1.93	160	2.4	0.00063	2419.6	1785	32.7	20	32.7	96
6/24/2014	10:50:00	23.9	8.3	0.24	ND	ND	ND	ND	0.24	0.24	0.041	0.087	1.58	1.77	150	2.0	0.0017	>2419.6	2382	19.9	31	47.3	94
7/1/2014	10:40:00	24.9	8.1	ND	ND	ND	0.12	ND	ND	0.26	0.035	0.084	1.59	1.92	140	2.6	0.0021	1553.1	2187	22.6	<10	49.6	100
7/8/2014	11:50:00	24.3	8.0	0.38	ND	ND	ND	ND	0.38	0.38	0.036	0.075	1.83	2.18	150	2.3	0.0024	2419.6	2613	13.5	<10	28.1	95
7/15/2014	10:40:00	24.1	8.1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1732.9	2909	14.5	10	28.1	134
7/22/2014	11:10:00	22.1	8.1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1413.6	1616	4.1	<10	17.7	132

* Method Detection Limit - limits can vary for individual samples depending on matrix interference and dilution factors, all results are preliminary and subject to final revision.

** Total nitrogen is calculated through the summation of the different components of total nitrogen: organic and ammoniacal nitrogen (together referred to as Total Kjeldahl Nitrogen or TKN) and nitrate/nitrite nitrogen.

*** United States Geological Survey (USGS) Continuous-Record Gaging Station

**** Flow rates are preliminary and subject to final revision by USGS.

Recommended EPA Criteria based on Aggregate Ecoregion III

Total Phosporus: 0.02188 mg/L (21.88 ug/L) ≈ 0.022 mg/L

Total Nitrogen: 0.38 mg/L

Chlorophyll a : 0.00178 mg/L (1.78 ug/L) ≈ 0.0018 mg/L

Turbidity: 2.34 FTU/NTU

CDPH Draft Guidance for Fresh Water Beaches - Single Sample Values:

Beach posting is recommended when indicator organisms exceed any of the following levels:

Total coliforms: 10,000 per 100 ml

E. coli: 235 per 100 ml

Enterococcus: 61 per 100 ml