



**State Water Resources Control Board
 Temporary Urgency Change Order (7/20/2019)
 Supplemental Water Quality Report for the Russian River
 June 25 - October 1, 2019**

The following information is provided to the State Water Resources Control Board as a requirement of the Order approving Sonoma County Water Agency's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

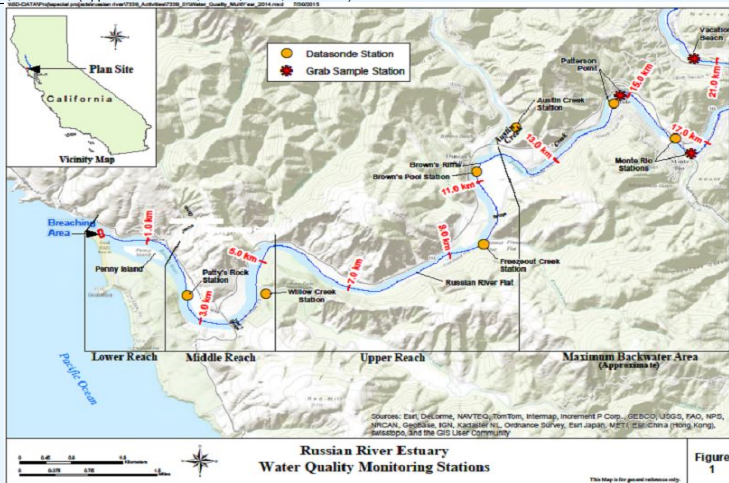


Figure 1



Figure 1. Russian River Ambient Algae Monitoring

Russian River Water Quality Grab Samples

Parameter	MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach	Syar	Jintown	Cloverdale	Hopland
Temperature		°C	6/25/2019	22.7	23.1	22.8	20.9	-	-	-
			6/26/2019	-	-	-	-	19.7	-	15.3
			7/2/2019	22.8	22.0	22.0	21.0	-	-	-
			7/9/2019	22.5	22.9	22.7	21.6	-	-	-
			7/10/2019	-	-	-	-	20.6	-	17.4
			7/16/2019	24.5	24.2	24.6	22.4	-	-	-
			7/23/2019	22.8	23.3	23.3	21.2	-	-	-
			7/24/2019	-	-	-	-	21.4	21.0	15.9
			7/30/2019	24.2	24.6	24.3	21.5	-	-	-
			8/6/2019	23.1	23.5	23.9	21.3	-	-	-
			8/7/2019	-	-	-	-	20.7	19.3	15.0
			8/20/2019	22.9	23.0	23.1	20.2	-	-	-
			8/21/2019	-	-	-	-	20.2	18.1	14.6
			9/3/2019	22.8	23.2	23.2	22.0	-	-	-
			9/4/2019	-	-	-	-	19.8	17.8	14.3
			9/17/2019	21.1	21.0	21.2	18.5	-	-	-
			9/18/2019	-	-	-	-	19.0	16.8	14.7
10/1/2019	17.2	16.9	16.9	15.6	-	-	-			
pH			6/25/2019	8.1	8.0	8.0	20.9	-	-	-
			6/26/2019	-	-	-	-	19.7	-	15.3
			7/2/2019	8.0	8.0	8.0	21.0	-	-	-
			7/9/2019	8.1	8.0	8.1	21.6	-	-	-
			7/10/2019	-	-	-	-	20.6	-	17.4
			7/16/2019	7.8	7.9	8.0	22.4	-	-	-
			7/23/2019	7.9	8.1	8.0	21.2	-	-	-
			7/24/2019	-	-	-	-	21.4	21.0	15.9
			7/30/2019	7.8	8.0	7.9	21.5	-	-	-
			8/6/2019	7.8	7.8	8.1	21.3	-	-	-
			8/7/2019	-	-	-	-	20.7	19.3	15.0
			8/20/2019	7.9	8.0	8.0	20.2	-	-	-
			8/21/2019	-	-	-	-	20.2	18.1	14.6
			9/3/2019	7.8	7.9	8.0	22.0	-	-	-
			9/4/2019	-	-	-	-	19.8	17.8	14.3
			9/17/2019	7.9	7.9	7.9	18.5	-	-	-
			9/18/2019	-	-	-	-	19.0	16.8	14.7
10/1/2019	7.8	7.9	7.9	15.6	-	-	-			

Russian River Water Quality Grab Samples Continued

Parameter	MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach	Syar	Jimtown	Cloverdale	Hopland	
Nutrients	Ammonia as N	0.01	mg/L	6/25/2019	ND	ND	ND	20.9	-	-	-
				6/26/2019	-	-	-	-	19.7	-	15.3
				7/2/2019	ND	ND	ND	21.0	-	-	-
				7/9/2019	ND	ND	ND	21.6	-	-	-
				7/10/2019	-	-	-	-	20.6	-	17.4
				7/16/2019	ND	ND	ND	22.4	-	-	-
				7/23/2019	ND	ND	ND	21.2	-	-	-
				7/24/2019	-	-	-	-	21.4	21.0	15.9
				7/30/2019	ND	ND	ND	21.5	-	-	-
				8/6/2019	ND	ND	ND	21.3	-	-	-
				8/7/2019	-	-	-	-	20.7	19.3	15.0
				8/20/2019	ND	ND	ND	20.2	-	-	-
				8/21/2019	-	-	-	-	20.2	18.1	14.6
				9/3/2019	ND	ND	ND	22.0	-	-	-
				9/4/2019	-	-	-	-	19.8	17.8	14.3
	9/17/2019	ND	ND	ND	18.5	-	-	-			
	9/18/2019	-	-	-	-	19.0	16.8	14.7			
	10/1/2019	ND	ND	ND	15.6	-	-	-			
	6/25/2019	ND	ND	ND	0.05	20.90	-	-	-		
	6/26/2019	-	-	-	-	19.70	-	-	15.30		
	7/2/2019	ND	ND	0.04	21.00	-	-	-	-		
	7/9/2019	ND	ND	ND	21.60	-	-	-	-		
	7/10/2019	-	-	-	-	20.60	-	-	17.40		
	7/16/2019	ND	ND	ND	22.40	-	-	-	-		
	7/23/2019	ND	ND	ND	21.20	-	-	-	-		
	7/24/2019	-	-	-	-	21.40	21.00	15.90	-		
	7/30/2019	0.04	ND	ND	21.50	-	-	-	-		
	8/6/2019	ND	ND	ND	21.30	-	-	-	-		
	8/7/2019	-	-	-	-	20.70	19.30	15.00	-		
	8/20/2019	ND	ND	ND	20.20	-	-	-	-		
	8/21/2019	-	-	-	-	20.20	18.10	14.60	-		
	9/3/2019	ND	ND	ND	22.00	-	-	-	-		
	9/4/2019	-	-	-	-	19.80	17.80	14.30	-		
	9/17/2019	ND	ND	ND	18.50	-	-	-	-		
	9/18/2019	-	-	-	-	19.00	16.80	14.70	-		
	10/1/2019	ND	ND	ND	15.60	-	-	-	-		
	6/25/2019	ND	ND	ND	20.90	-	-	-	-		
	6/26/2019	-	-	-	-	19.70	-	-	15.30		
	7/2/2019	ND	ND	ND	21.00	-	-	-	-		
	7/9/2019	ND	ND	ND	21.60	-	-	-	-		
	7/10/2019	-	-	-	-	20.60	-	-	17.40		
	7/16/2019	ND	ND	ND	22.40	-	-	-	-		
	7/23/2019	ND	ND	ND	21.20	-	-	-	-		
	7/24/2019	-	-	-	-	21.40	21.00	15.90	-		
	7/30/2019	ND	ND	ND	21.50	-	-	-	-		
8/6/2019	ND	ND	ND	21.30	-	-	-	-			
8/7/2019	-	-	-	-	20.70	19.30	15.00	-			
8/20/2019	ND	ND	ND	20.20	-	-	-	-			
8/21/2019	-	-	-	-	20.20	18.10	14.60	-			
9/3/2019	ND	ND	ND	22.00	-	-	-	-			
9/4/2019	-	-	-	-	19.80	17.80	14.30	-			
9/17/2019	ND	ND	ND	18.50	-	-	-	-			
9/18/2019	-	-	-	-	19.00	16.80	14.70	-			
10/1/2019	ND	ND	ND	15.60	-	-	-	-			
6/25/2019	ND	ND	ND	20.90	-	-	-	-			
6/26/2019	-	-	-	-	19.70	-	-	15.30			
7/2/2019	ND	ND	ND	21.00	-	-	-	-			
7/9/2019	ND	ND	ND	21.60	-	-	-	-			
7/10/2019	-	-	-	-	20.60	-	-	17.40			
7/16/2019	ND	ND	ND	22.40	-	-	-	-			
7/23/2019	ND	ND	ND	21.20	-	-	-	-			
7/24/2019	-	-	-	-	21.40	21.00	15.90	-			
7/30/2019	ND	ND	ND	21.50	-	-	-	-			
8/6/2019	ND	ND	ND	21.30	-	-	-	-			
8/7/2019	-	-	-	-	20.70	19.30	15.00	-			
8/20/2019	ND	ND	ND	20.20	-	-	-	-			
8/21/2019	-	-	-	-	20.20	18.10	14.60	-			
9/3/2019	ND	ND	ND	22.00	-	-	-	-			
9/4/2019	-	-	-	-	19.80	17.80	14.30	-			
9/17/2019	ND	ND	ND	18.50	-	-	-	-			
9/18/2019	-	-	-	-	19.00	16.80	14.70	-			
10/1/2019	ND	ND	ND	15.60	-	-	-	-			
6/25/2019	ND	ND	ND	20.90	-	-	-	-			
6/26/2019	-	-	-	-	19.70	-	-	15.30			
7/2/2019	0.03	0.04	0.04	21.00	-	-	-	-			
7/9/2019	0.03	0.03	0.04	21.60	-	-	-	-			
7/10/2019	-	-	-	-	20.60	-	-	17.40			
7/16/2019	0.04	0.04	0.04	22.40	-	-	-	-			
7/23/2019	0.04	0.04	0.03	21.20	-	-	-	-			
7/24/2019	-	-	-	-	21.40	21.00	15.90	-			
7/30/2019	0.04	0.04	0.03	21.50	-	-	-	-			
8/6/2019	0.04	0.04	0.03	21.30	-	-	-	-			
8/7/2019	-	-	-	-	20.70	19.30	15.00	-			
8/20/2019	0.04	0.03	0.03	20.20	-	-	-	-			
8/21/2019	-	-	-	-	20.20	18.10	14.60	-			
9/3/2019	0.03	0.03	0.03	22.00	-	-	-	-			
9/4/2019	-	-	-	-	19.80	17.80	14.30	-			
9/17/2019	0.03	0.02	0.02	18.50	-	-	-	-			
9/18/2019	-	-	-	-	19.00	16.80	14.70	-			
10/1/2019	0.02	0.02	0.02	15.60	-	-	-	-			

Russian River Water Quality Grab Samples Continued

Parameter		MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach	Syar	Jimtown	Cloverdale	Hopland
Nutrients	Total Orthophosphate	0.02	mg/L	6/25/2019	0.06	0.06	0.06	20.90	-	-	-
				6/26/2019	-	-	-	-	19.70	-	15.30
				7/2/2019	0.05	0.05	0.05	21.00	-	-	-
				7/9/2019	0.05	0.05	0.06	21.60	-	-	-
				7/10/2019	-	-	-	-	20.60	-	17.40
				7/16/2019	0.05	0.05	0.05	22.40	-	-	-
				7/23/2019	0.04	0.05	0.05	21.20	-	-	-
				7/24/2019	-	-	-	-	21.40	21.00	15.90
				7/30/2019	0.05	0.05	0.04	21.50	-	-	-
				8/6/2019	0.06	0.05	0.03	21.30	-	-	-
				8/7/2019	-	-	-	-	20.70	19.30	15.00
				8/20/2019	0.04	0.05	0.04	20.20	-	-	-
				8/21/2019	-	-	-	-	20.20	18.10	14.60
				9/3/2019	0.06	0.05	0.05	22.00	-	-	-
				9/4/2019	-	-	-	-	19.80	17.80	14.30
				9/17/2019	ND	0.03	0.04	18.50	-	-	-
				9/18/2019	-	-	-	-	19.00	16.80	14.70
10/1/2019	0.03	0.11	0.04	15.60	-	-	-				
6/25/2019	0.0037	0.0046	0.0028	20.9000	-	-	-				
6/26/2019	-	-	-	-	19.7000	-	15.3000				
7/2/2019	0.0074	0.0060	0.0059	21.0000	-	-	-				
7/9/2019	0.0022	0.0072	0.0057	21.6000	-	-	-				
7/10/2019	-	-	-	-	20.6000	-	17.4000				
7/16/2019	0.0062	0.0069	0.0069	22.4000	-	-	-				
7/23/2019	2.1700	2.1300	2.0900	21.2000	-	-	-				
7/24/2019	-	-	-	-	21.4000	21.0000	15.9000				
7/30/2019	0.0036	0.0036	0.0040	21.5000	-	-	-				
8/6/2019	1.7400	1.7500	1.7900	21.3000	-	-	-				
8/7/2019	-	-	-	-	20.7000	19.3000	15.0000				
8/20/2019	0.0016	ND	ND	20.2000	-	-	-				
8/21/2019	-	-	-	-	20.2000	18.1000	14.6000				
9/3/2019	0.0012	0.0013	0.0019	22.0000	-	-	-				
9/4/2019	-	-	-	-	19.8000	17.8000	14.3000				
9/17/2019	ND	0.1100	ND	18.5000	-	-	-				
9/18/2019	-	-	-	-	19.0000	16.8000	14.7000				
10/1/2019	0.0012	ND	ND	15.6000	-	-	-				
6/25/2019	1.83	1.87	1.93	20.90	-	-	-				
6/26/2019	-	-	-	-	19.70	-	15.30				
7/2/2019	1.78	1.80	1.78	21.00	-	-	-				
7/9/2019	1.79	1.79	1.79	21.60	-	-	-				
7/10/2019	-	-	-	-	20.60	-	17.40				
7/16/2019	1.83	1.81	1.79	22.40	-	-	-				
7/23/2019	2.17	2.13	2.09	21.20	-	-	-				
7/24/2019	-	-	-	-	21.40	21.00	15.90				
7/30/2019	1.78	1.85	1.78	21.50	-	-	-				
8/6/2019	1.74	1.75	1.79	21.30	-	-	-				
8/7/2019	-	-	-	-	20.70	19.30	15.00				
8/20/2019	1.77	1.87	1.78	20.20	-	-	-				
8/21/2019	-	-	-	-	20.20	18.10	14.60				
9/3/2019	1.87	1.89	1.84	22.00	-	-	-				
9/4/2019	-	-	-	-	19.80	17.80	14.30				
9/17/2019	1.79	1.81	1.76	18.50	-	-	-				
9/18/2019	-	-	-	-	19.00	16.80	14.70				
10/1/2019	1.68	1.70	1.72	15.60	-	-	-				
6/25/2019	1.49	1.52	1.36	20.90	-	-	-				
6/26/2019	-	-	-	-	19.70	-	15.30				
7/2/2019	1.30	1.37	1.32	21.00	-	-	-				
7/9/2019	1.33	1.34	1.25	21.60	-	-	-				
7/10/2019	-	-	-	-	20.60	-	17.40				
7/16/2019	1.53	1.59	1.56	22.40	-	-	-				
7/23/2019	1.40	1.41	1.34	21.20	-	-	-				
7/24/2019	-	-	-	-	21.40	21.00	15.90				
7/30/2019	1.38	1.37	1.36	21.50	-	-	-				
8/6/2019	1.27	1.22	1.28	21.30	-	-	-				
8/7/2019	-	-	-	-	20.70	19.30	15.00				
8/20/2019	1.32	1.61	1.31	20.20	-	-	-				
8/21/2019	-	-	-	-	20.20	18.10	14.60				
9/3/2019	1.22	1.31	1.39	22.00	-	-	-				
9/4/2019	-	-	-	-	19.80	17.80	14.30				
9/17/2019	1.49	1.46	1.43	18.50	-	-	-				
9/18/2019	-	-	-	-	19.00	16.80	14.70				
10/1/2019	1.38	1.23	1.33	15.60	-	-	-				
6/25/2019	2.6	2.5	2.3	20.9	-	-	-				
6/26/2019	-	-	-	-	19.7	-	15.3				
7/2/2019	2.2	2.1	1.8	21.0	-	-	-				
7/9/2019	1.3	1.3	1.3	21.6	-	-	-				
7/10/2019	-	-	-	-	20.6	-	17.4				
7/16/2019	3.1	2.6	2.5	22.4	-	-	-				
7/23/2019	1.4	1.4	1.3	21.2	-	-	-				
7/24/2019	-	-	-	-	21.4	21.0	15.9				
7/30/2019	1.7	2.0	2.0	21.5	-	-	-				
8/6/2019	1.3	1.2	1.3	21.3	-	-	-				
8/7/2019	-	-	-	-	20.7	19.3	15.0				
8/20/2019	2.0	1.8	3.2	20.2	-	-	-				
8/21/2019	-	-	-	-	20.2	18.1	14.6				
9/3/2019	2.4	1.9	3.4	22.0	-	-	-				
9/4/2019	-	-	-	-	19.8	17.8	14.3				
9/17/2019	1.6	1.4	3.4	18.5	-	-	-				
9/18/2019	-	-	-	-	19.0	16.8	14.7				
10/1/2019	1.3	1.4	3.2	15.6	-	-	-				
6/25/2019	160	160	170	21	-	-	-				
6/26/2019	-	-	-	-	20	-	15				
7/2/2019	150	170	160	21	-	-	-				
7/9/2019	150	160	140	22	-	-	-				
7/10/2019	-	-	-	-	21	-	17				
7/16/2019	170	160	220	22	-	-	-				
7/23/2019	0	0	0	21	-	-	-				
7/24/2019	-	-	-	-	21	21	16				
7/30/2019	140	150	170	22	-	-	-				
8/6/2019	0	0	0	21	-	-	-				
8/7/2019	-	-	-	-	21	19	15				
8/20/2019	140	130	140	20	-	-	-				
8/21/2019	-	-	-	-	20	18	15				
9/3/2019	130	140	130	22	-	-	-				
9/4/2019	-	-	-	-	20	18	14				
9/17/2019	140	130	130	19	-	-	-				
9/18/2019	-	-	-	-	19	17	15				
10/1/2019	130	120	130	16	-	-	-				

*Method Detection Limit
 **No Detection