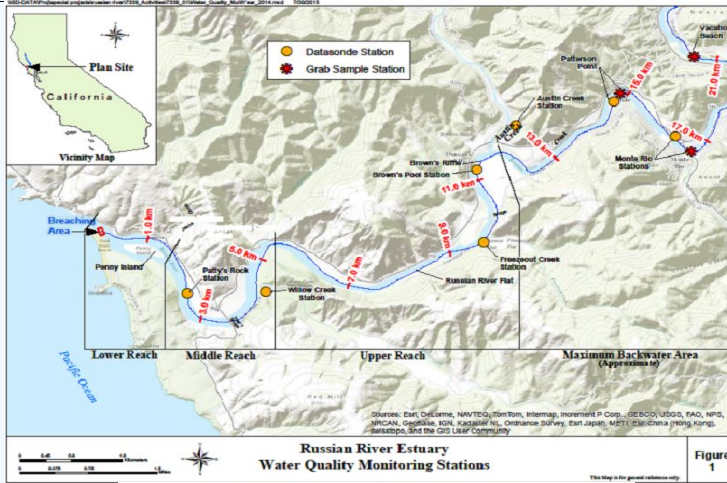




**State Water Resources Control Board
 Temporary Urgency Change Order (7/20/2019)
 Supplemental Water Quality Report for the Russian River
 July 9 - September 19, 2019**

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).



Russian River Water Quality Grab Samples

Parameter	MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach	Syar	Jintown	Cloverdale	Hopland	
Temperature		°C	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	
			8/13/2019	23.3	23.5	23.6	-	-	-	-	
			8/20/2019	22.9	23.0	23.1	20.2	-	20.2	18.1	14.6
			8/21/2019	-	-	-	-	-	-	-	-
			8/27/2019	22.9	23.2	23.5	-	-	-	-	-
			9/3/2019	22.8	23.2	23.2	22.0	-	-	-	-
			9/4/2019	-	-	-	-	19.8	17.8	14.3	-
			9/10/2019	21.4	21.4	21.4	-	-	-	-	-
			9/17/2019	21.1	21.0	21.2	18.5	-	-	-	-
			9/18/2019	-	-	-	-	19.0	16.8	14.7	-
			9/19/2019	20.8	20.2	20.2	-	-	-	-	-
			pH			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	
8/13/2019	7.9	7.8				7.9	-	-	-	-	
8/20/2019	7.9	8.0				8.0	20.2	-	-	-	
8/21/2019	-	-				-	-	20.2	18.1	14.6	
8/27/2019	8.0	7.9				8.1	-	-	-	-	
9/3/2019	7.8	7.9				8.0	22.0	-	-	-	
9/4/2019	-	-				-	-	19.8	17.8	14.3	
9/10/2019	7.9	7.9				7.9	-	-	-	-	
9/17/2019	7.9	7.9				7.9	18.5	-	-	-	
9/18/2019	-	-				-	-	19.0	16.8	14.7	
9/19/2019	7.8	7.9				7.9	-	-	-	-	

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	7/9/2019	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
				8/13/2019	ND	ND	ND	-	-	-	-
				8/20/2019	ND	ND	ND	20.2	-	-	-
				8/21/2019	-	-	-	-	20.2	18.1	14.6
				8/27/2019	ND	ND	ND	-	-	-	-
				9/3/2019	ND	ND	ND	22.0	-	-	-
				9/4/2019	-	-	-	-	19.8	17.8	14.3
				9/10/2019	ND	ND	ND	-	-	-	-
				9/17/2019	ND	ND	ND	18.5	-	-	-
				9/18/2019	-	-	-	-	19.0	16.8	14.7
				9/19/2019	ND	ND	ND	-	-	-	-
				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			
	8/13/2019	ND	ND	ND	-	-	-	-			
	8/20/2019	ND	ND	ND	20.20	-	-	-			
	8/21/2019	-	-	-	-	20.20	18.10	14.60			
	8/27/2019	ND	ND	ND	-	-	-	-			
	9/3/2019	ND	ND	ND	22.00	-	-	-			
	9/4/2019	-	-	-	-	19.80	17.80	14.30			
	9/10/2019	ND	ND	ND	-	-	-	-			
	9/17/2019	ND	ND	ND	18.50	-	-	-			
	9/18/2019	-	-	-	-	19.00	16.80	14.70			
	9/19/2019	0.14	ND	ND	-	-	-	-			
	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			
	8/13/2019	ND	ND	ND	-	-	-	-			
	8/20/2019	ND	ND	ND	20.2	-	-	-			
	8/21/2019	-	-	-	-	20.2	18.1	14.6			
	8/27/2019	ND	ND	ND	-	-	-	-			
	9/3/2019	ND	ND	ND	22.0	-	-	-			
	9/4/2019	-	-	-	-	19.8	17.8	14.3			
	9/10/2019	ND	ND	ND	-	-	-	-			
	9/17/2019	ND	ND	ND	18.5	-	-	-			
	9/18/2019	-	-	-	-	19.0	16.8	14.7			
	9/19/2019	ND	ND	ND	-	-	-	-			
	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			
	8/13/2019	24.00	ND	ND	-	-	-	-			
	8/20/2019	ND	ND	ND	20.20	-	-	-			
	8/21/2019	-	-	-	-	20.20	18.10	14.60			
	8/27/2019	ND	ND	ND	-	-	-	-			
	9/3/2019	ND	ND	ND	22.00	-	-	-			
	9/4/2019	-	-	-	-	19.80	17.80	14.30			
	9/10/2019	0.26	ND	ND	-	-	-	-			
	9/17/2019	ND	ND	ND	18.50	-	-	-			
	9/18/2019	-	-	-	-	19.00	16.80	14.70			
	9/19/2019	ND	ND	ND	-	-	-	-			
	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			
	8/13/2019	24.00	ND	ND	-	-	-	-			
	8/20/2019	ND	ND	ND	20.20	-	-	-			
	8/21/2019	-	-	-	-	20.20	18.10	14.60			
	8/27/2019	ND	ND	ND	-	-	-	-			
	9/3/2019	ND	ND	ND	22.00	-	-	-			
	9/4/2019	-	-	-	-	19.80	17.80	14.30			
	9/10/2019	0.26	ND	ND	-	-	-	-			
	9/17/2019	ND	ND	ND	18.50	-	-	-			
	9/18/2019	-	-	-	-	19.00	16.80	14.70			
	9/19/2019	ND	ND	ND	-	-	-	-			
	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			
	8/13/2019	0.06	0.03	0.03	-	-	-	-			
	8/20/2019	0.04	0.03	0.03	20.20	-	-	-			
8/21/2019	-	-	-	-	20.20	18.10	14.60				
8/27/2019	0.04	0.04	0.03	-	-	-	-				
9/3/2019	0.03	0.03	0.03	22.00	-	-	-				
9/4/2019	-	-	-	-	19.80	17.80	14.30				
9/10/2019	0.03	0.03	0.03	-	-	-	-				
9/17/2019	0.03	0.02	0.02	18.50	-	-	-				
9/18/2019	-	-	-	-	19.00	16.80	14.70				
9/19/2019	0.02	0.02	0.03	-	-	-	-				

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	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				
				8/13/2019	0.06	0.04	0.04	-	-	-	-				
				8/20/2019	0.04	0.05	0.04	20.20	-	-	-				
				8/21/2019	-	-	-	-	20.20	18.10	14.60				
				8/27/2019	0.05	0.05	0.03	-	-	-	-				
				9/3/2019	0.06	0.05	0.05	22.00	-	-	-				
				9/4/2019	-	-	-	-	19.80	17.80	14.30				
				9/10/2019	0.05	0.04	0.05	-	-	-	-				
				9/17/2019	ND	0.03	0.04	18.50	-	-	-				
				9/18/2019	-	-	-	-	19.00	16.80	14.70				
				9/19/2019	0.03	0.03	0.04	-	-	-	-				
				Chlorophyll	Chlorophyll A	0.00005	mg/L	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	0.0052	0.0067	ND					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				
8/13/2019	ND	ND	0.0014					-	-	-	-				
8/20/2019	1.7700	1.8700	1.7800					20.2000	-	-	-				
8/21/2019	-	-	-					-	20.2000	18.1000	14.6000				
8/27/2019	ND	ND	0.0015					-	-	-	-				
9/3/2019	1.8700	1.8900	1.8400					22.0000	-	-	-				
9/4/2019	-	-	-					-	19.8000	17.8000	14.3000				
9/10/2019	ND	ND	ND					-	-	-	-				
9/17/2019	ND	0.1100	ND					18.5000	-	-	-				
9/18/2019	-	-	-					-	19.0000	16.8000	14.7000				
9/19/2019	ND	ND	ND					-	-	-	-				
Carbon	Total Organic Carbon	0.04	mg/L					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				
				8/13/2019	1.68	1.63	1.66	-	-	-	-				
				8/20/2019	1.77	1.87	1.78	20.20	-	-	-				
	8/21/2019	-	-	-	-	20.20	18.10	14.60							
	8/27/2019	1.93	1.90	1.90	-	-	-	-							
	9/3/2019	1.87	1.89	1.84	22.00	-	-	-							
	9/4/2019	-	-	-	-	19.80	17.80	14.30							
	9/10/2019	1.79	1.79	1.76	-	-	-	-							
	9/17/2019	1.79	1.81	1.76	18.50	-	-	-							
	9/18/2019	-	-	-	-	19.00	16.80	14.70							
	9/19/2019	1.78	1.80	1.76	-	-	-	-							
	Dissolved Organic Carbon	0.04	mg/L	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					
8/13/2019				1.57	1.35	1.43	-	-	-	-					
8/20/2019				1.32	1.61	1.31	20.20	-	-	-					
8/21/2019	-	-	-	-	20.20	18.10	14.60								
8/27/2019	1.39	1.27	1.33	-	-	-	-								
9/3/2019	1.22	1.31	1.39	22.00	-	-	-								
9/4/2019	-	-	-	-	19.80	17.80	14.30								
9/10/2019	1.39	1.26	1.33	-	-	-	-								
9/17/2019	1.49	1.46	1.43	18.50	-	-	-								
9/18/2019	-	-	-	-	19.00	16.80	14.70								
9/19/2019	1.30	1.31	1.28	-	-	-	-								
Solids	Turbidity	0.02	NTU	7/9/2019	1.6	1.7	1.5	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				
				8/13/2019	1.7	1.3	3.0	-	-	-	-				
				8/20/2019	1.3	1.6	1.3	20.2	-	-	-				
	8/21/2019	-	-	-	-	20.2	18.1	14.6							
	8/27/2019	1.6	1.5	3.1	-	-	-	-							
	9/3/2019	1.2	1.3	1.4	22.0	-	-	-							
	9/4/2019	-	-	-	-	19.8	17.8	14.3							
	9/10/2019	1.0	1.0	2.6	-	-	-	-							
	9/17/2019	1.6	1.4	3.4	18.5	-	-	-							
	9/18/2019	-	-	-	-	19.0	16.8	14.7							
	9/19/2019	1.1	1.2	4.0	-	-	-	-							
	TDS	4.2	mg/L	7/9/2019	150	160	140	22	-	-	-				
				7/10/2019	-	-	-	-	21	-	17				
7/16/2019				170	160	220	22	-	-	-					
7/23/2019				190	140	160	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					
8/13/2019				160	140	140	-	-	-	-					
8/20/2019				0	0	0	20	-	-	-					
8/21/2019	-	-	-	-	20	18	15								
8/27/2019	140	140	140	-	-	-	-								
9/3/2019	0	0	0	22	-	-	-								
9/4/2019	-	-	-	-	20	18	14								
9/10/2019	82	130	120	-	-	-	-								
9/17/2019	140	130	130	19	-	-	-								
9/18/2019	-	-	-	-	19	17	15								
9/19/2019	160	130	140	-	-	-	-								

*Method Detection Limit
 **No Detection