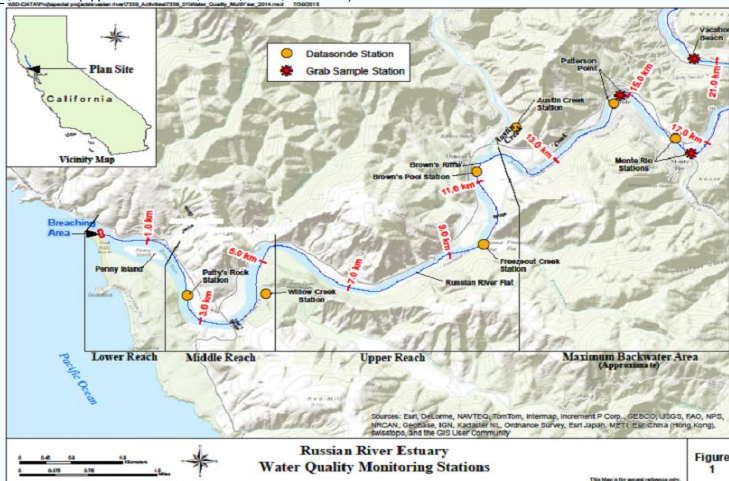




**State Water Resources Control Board
 Temporary Urgency Change Order (7/20/2019)
 Supplemental Water Quality Report for the Russian River
 June 25 - September 10, 2019**

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	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			
			8/13/2019	23.3	23.5	23.6	-	-	-	-			
			8/20/2019	22.9	23.0	23.1	20.2	-	-	-			
			8/21/2019	-	-	-	-	20.2	18.1	14.6			
			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	-	-	-	-			
			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			
8/13/2019	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	-	-	-	-						

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
				8/13/2019	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	-	-	-	-
				6/25/2019	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			
	8/13/2019	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	-	-	-	-			
	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			
	8/13/2019	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	-	-	-	-			
	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			
	8/13/2019	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	-	-	-	-			
	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			
	8/13/2019	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	-	-	-	-			
	6/25/2019	0.04	0.04	0.04	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				
8/13/2019	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	-	-	-	-				

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				
				8/13/2019	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	-	-	-	-				
				Chlorophyll	Chlorophyll A	0.00005	mg/L	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				
8/13/2019	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	0.0012	0.0013	0.0019					22.0000	-	-	-				
9/4/2019	-	-	-					-	19.8000	17.8000	14.3000				
9/10/2019	ND	ND	ND					-	-	-	-				
Carbon	Total Organic Carbon	0.04	mg/L					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				
				8/13/2019	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	-	-	-	-				
				Carbon	Dissolved Organic Carbon	0.04	mg/L	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				
8/13/2019	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					-	-	-	-				
Solids	Turbidity	0.02	NTU					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				
				8/13/2019	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	2.4	1.9	3.4	22.0	-	-	-				
				9/4/2019	-	-	-	-	19.8	17.8	14.3				
				9/10/2019	1.0	1.0	2.6	-	-	-	-				
				Solids	TDS	4.2	mg/L	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				
8/13/2019	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	130	140	130					22	-	-	-				
9/4/2019	-	-	-					-	20	18	14				
9/10/2019	82	130	120					-	-	-	-				

*Method Detection Limit
 **No Detection