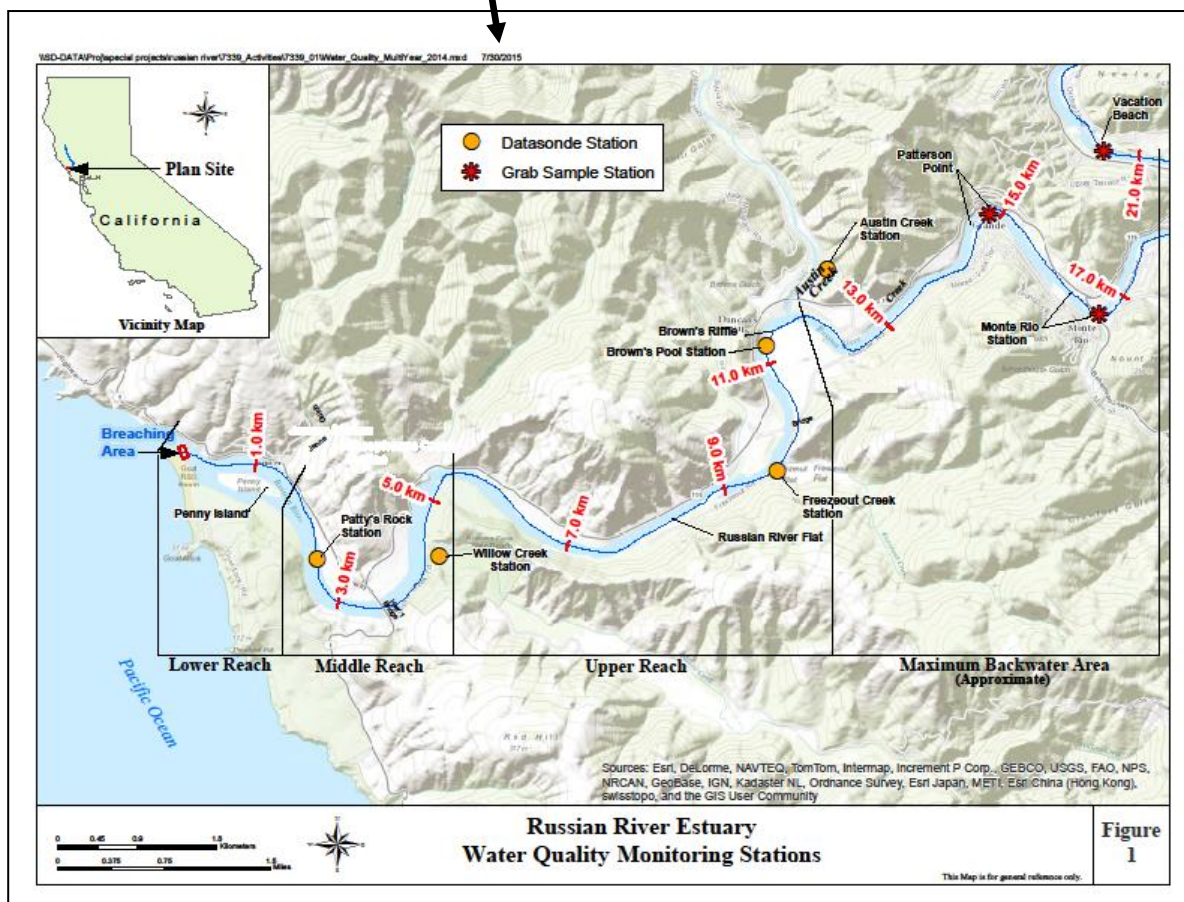
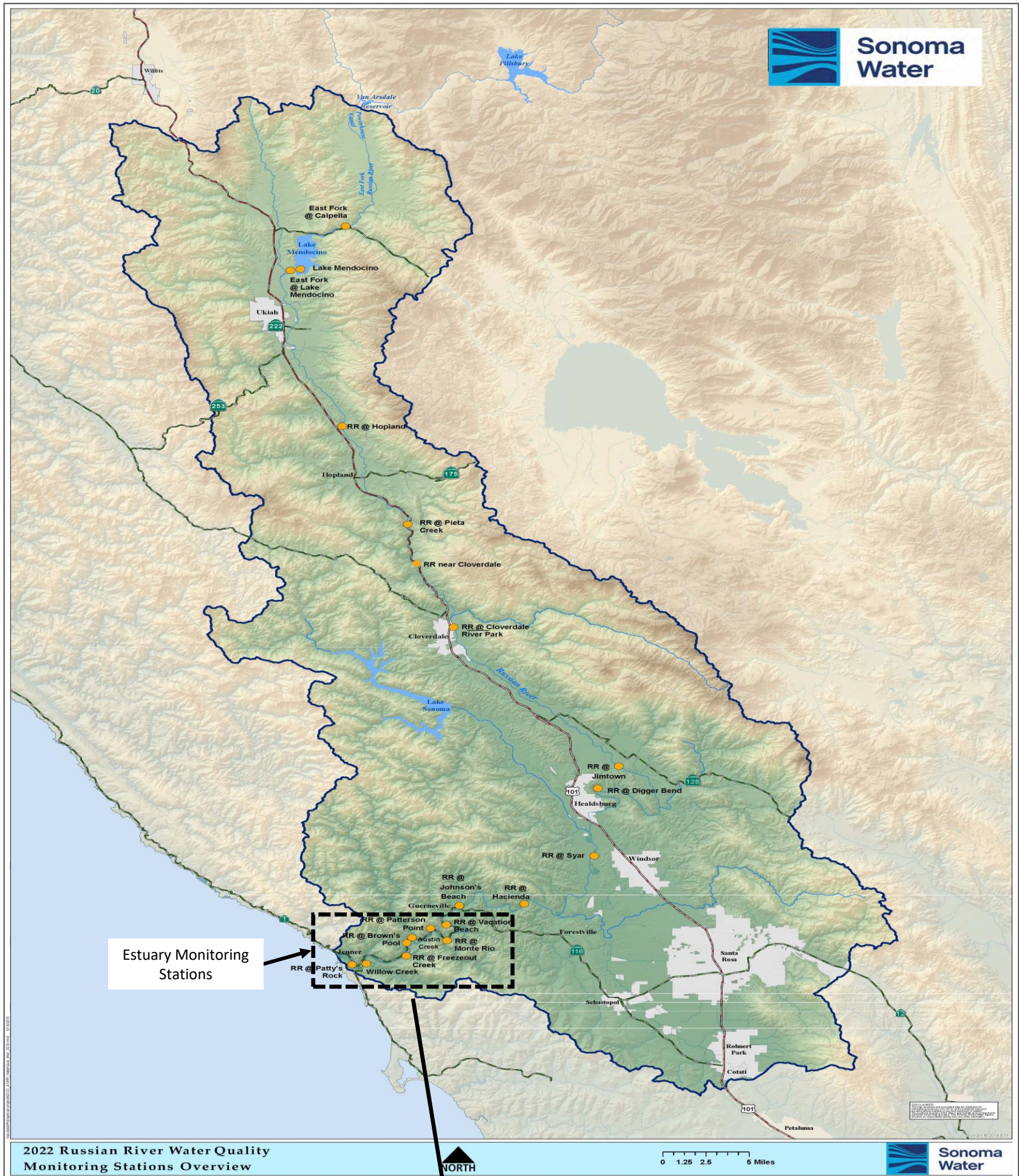




Sonoma Water

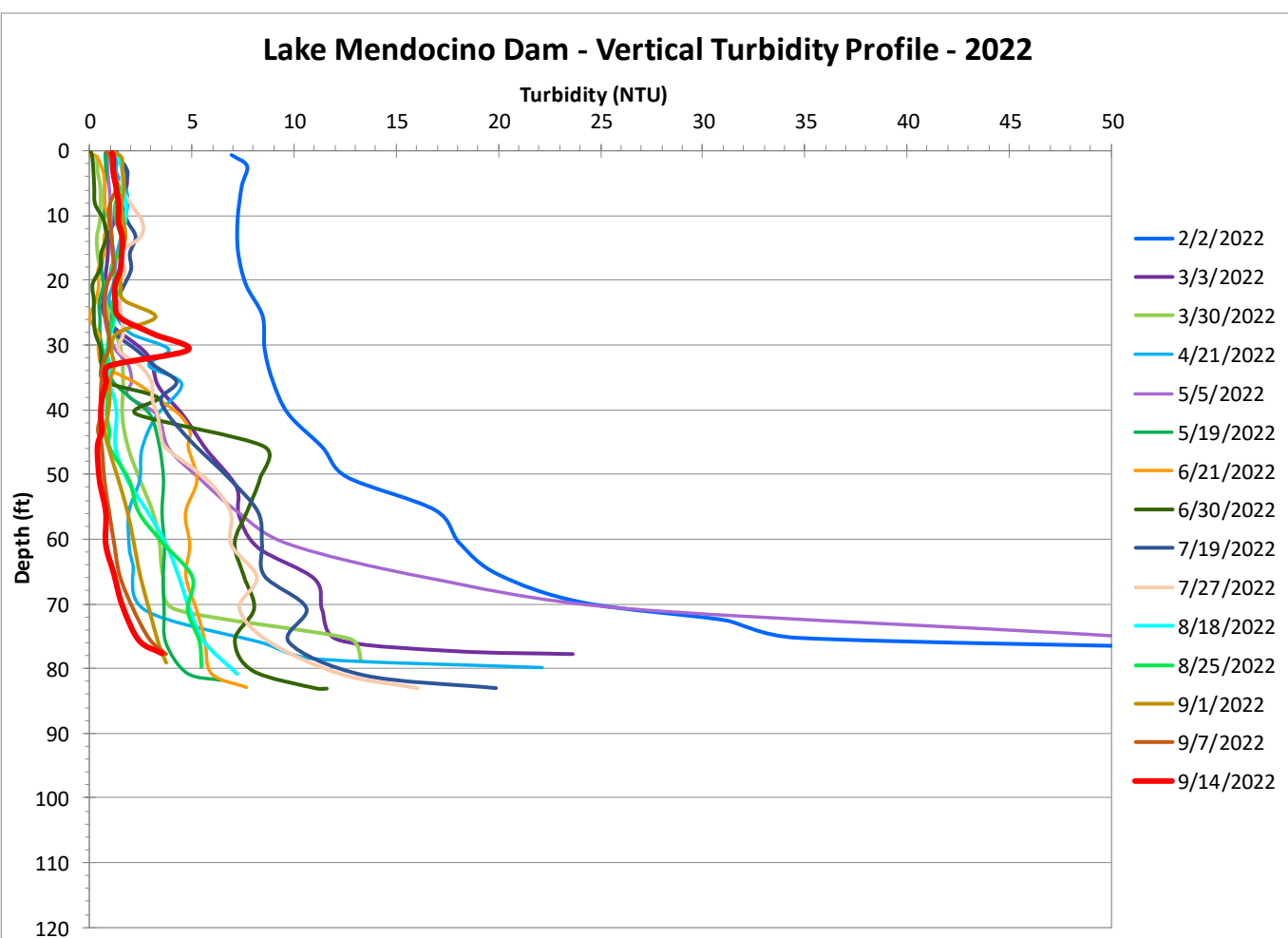
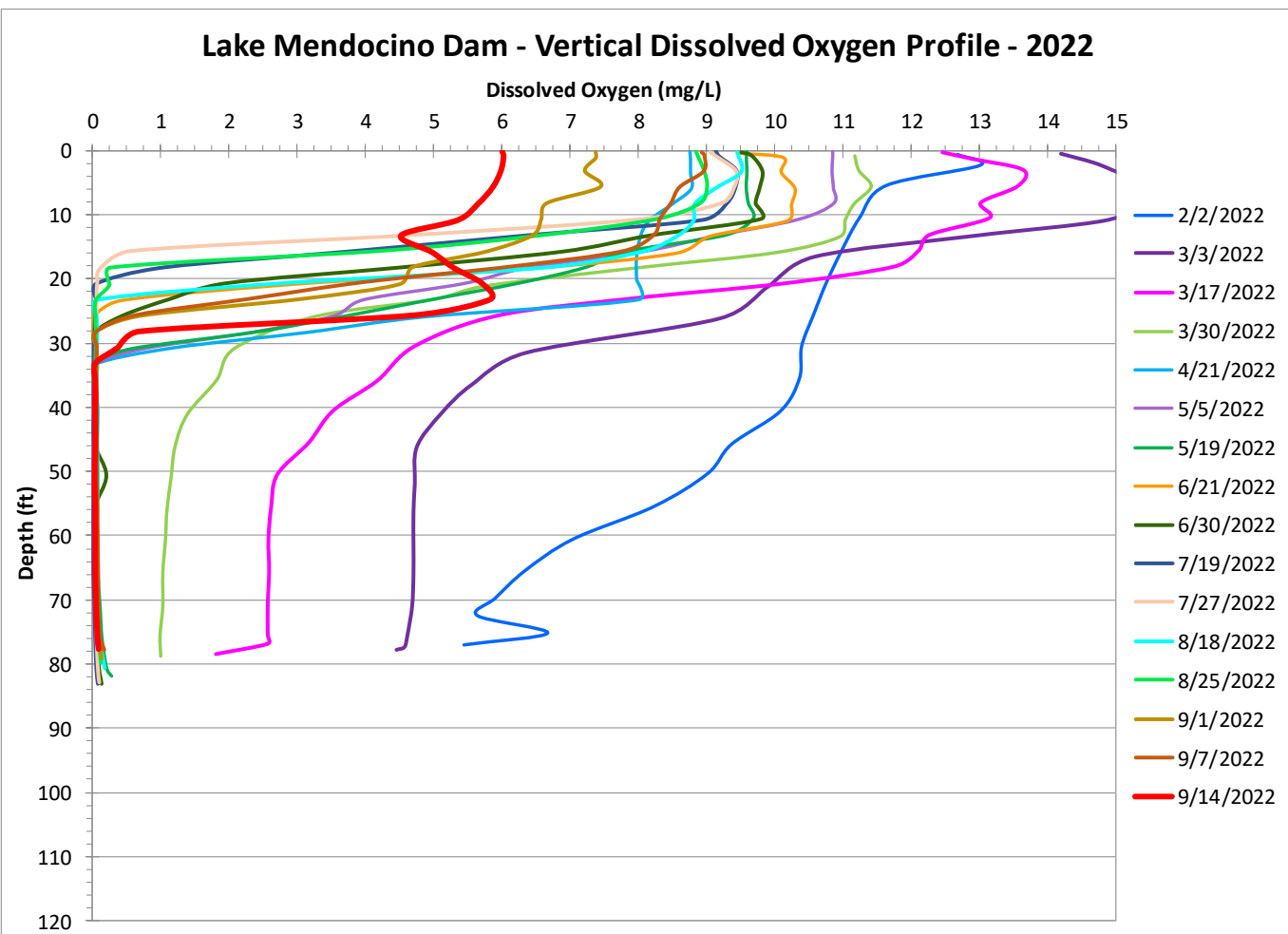
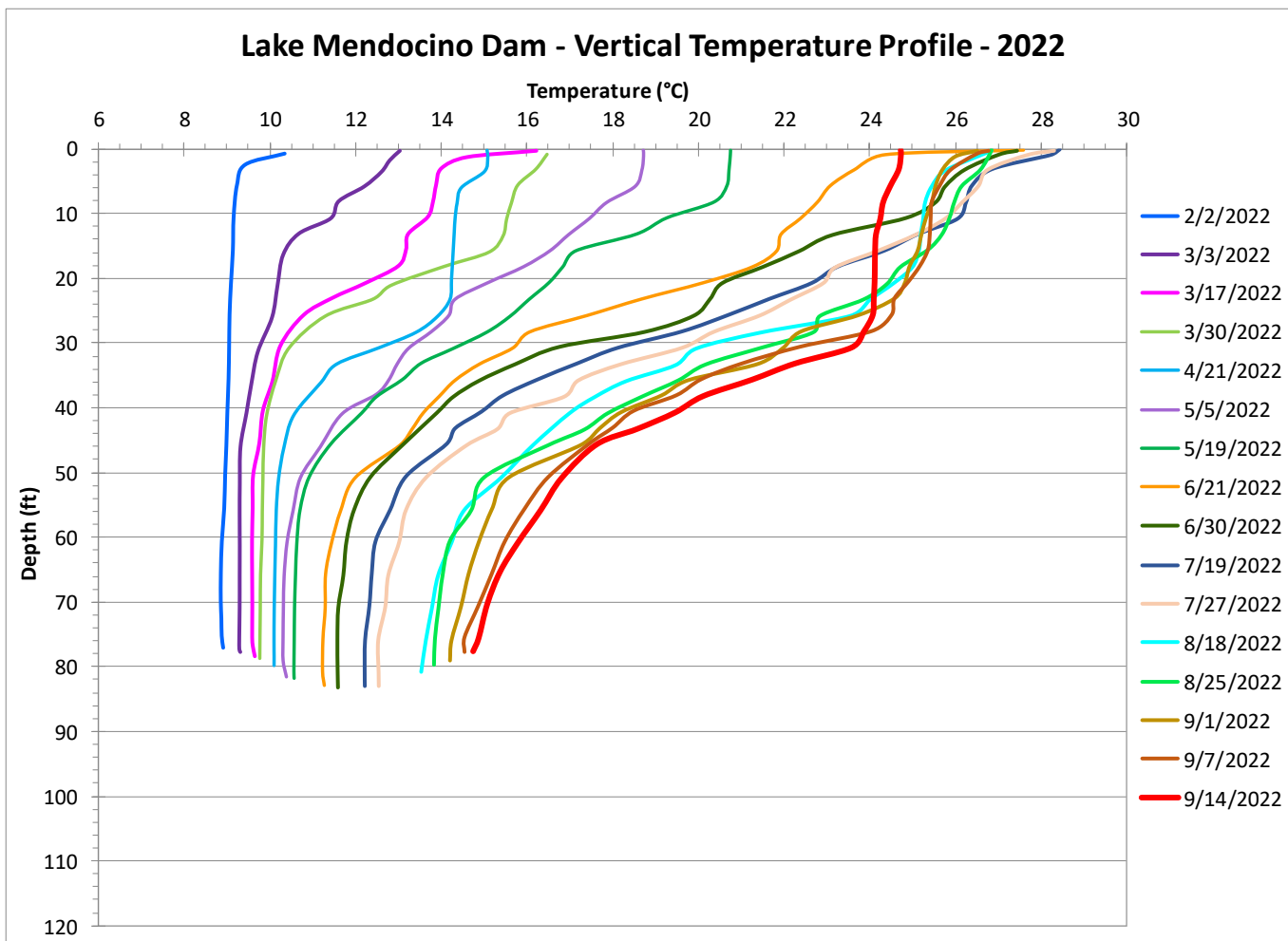
State Water Resources Control Board  
Temporary Urgency Change Order (6/17/2022)  
Russian River Water Quality Report  
September 09, 2022 – September 15, 2022





# Lake Mendocino Water Quality Vertical Profiles (February 2 – September 14, 2022)

Provisional Data Subject to Revision

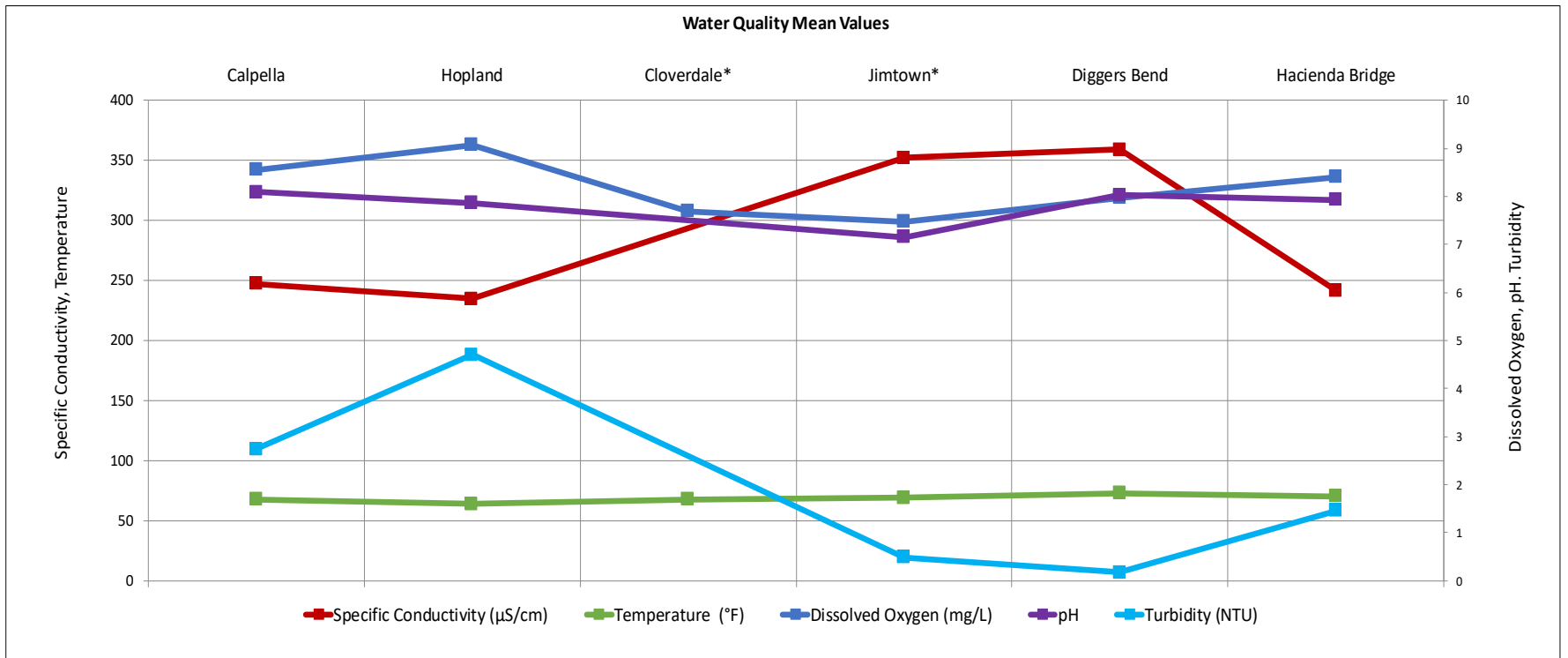


## Russian River Water Quality Sondes (September 09, 2022 – September 15, 2022)

Provisional Data Subject to Revision

Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	61.5	59.2	62.8	65.1	68.0		66.2	
	Max	73.6	68.5	72.9	72.9	78.1		75.0	
	Mean	67.7	63.8	67.8	69.1	73.1		70.5	
Specific Conductivity (µS/cm)	Min	238.0	232.0		348.0	354.0		238.0	
	Max	254.0	237.0		358.0	363.0		250.0	
	Mean	247.5	235.0		352.1	359.0		241.7	
Dissolved Oxygen (mg/L)	Min	7.5	7.5	5.3	4.7	5.3		7.5	
	Max	10.2	11.3	10.8	11.6	10.8		9.4	
	Mean	8.6	9.1	7.7	7.5	8.0		8.4	
Dissolved Oxygen (% Saturation)	Min	84.4	78.4	57.9	51.9	61.5		81.8	
	Max	108.6	120.8	118.6	134.4	131.9		104.2	
	Mean	93.8	95.4	84.5	83.6	93.0		95.0	
pH	Min	7.9	7.6		7.0	7.7		7.7	
	Max	8.4	8.4		7.4	8.4		8.1	
	Mean	8.1	7.9		7.2	8.0		7.9	
Turbidity (NTU)	Min	1.3	2.8		0.1	0.0		0.7	
	Max	5.9	6.5		1.0	0.8		3.0	
	Mean	2.7	4.7		0.5	0.2		1.5	

\*Station operated seasonally

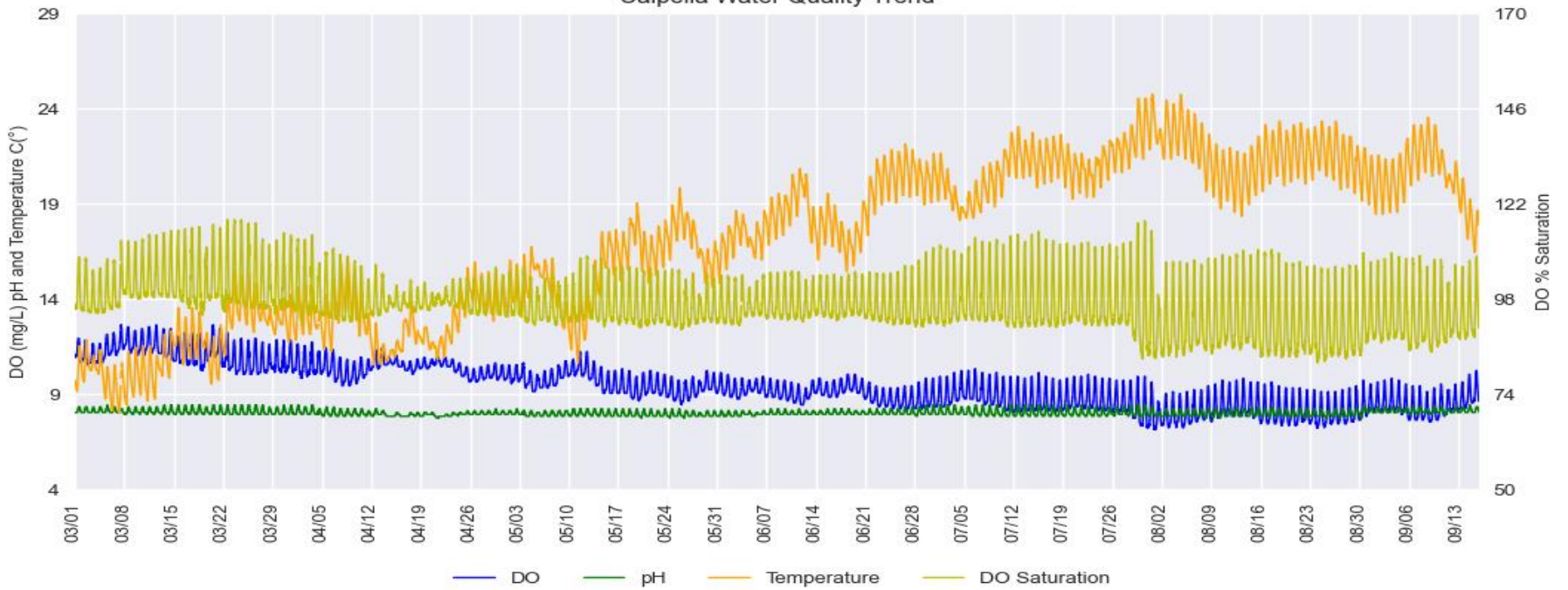


## Russian River Water Quality (March 01, 2022 - September 15, 2022)

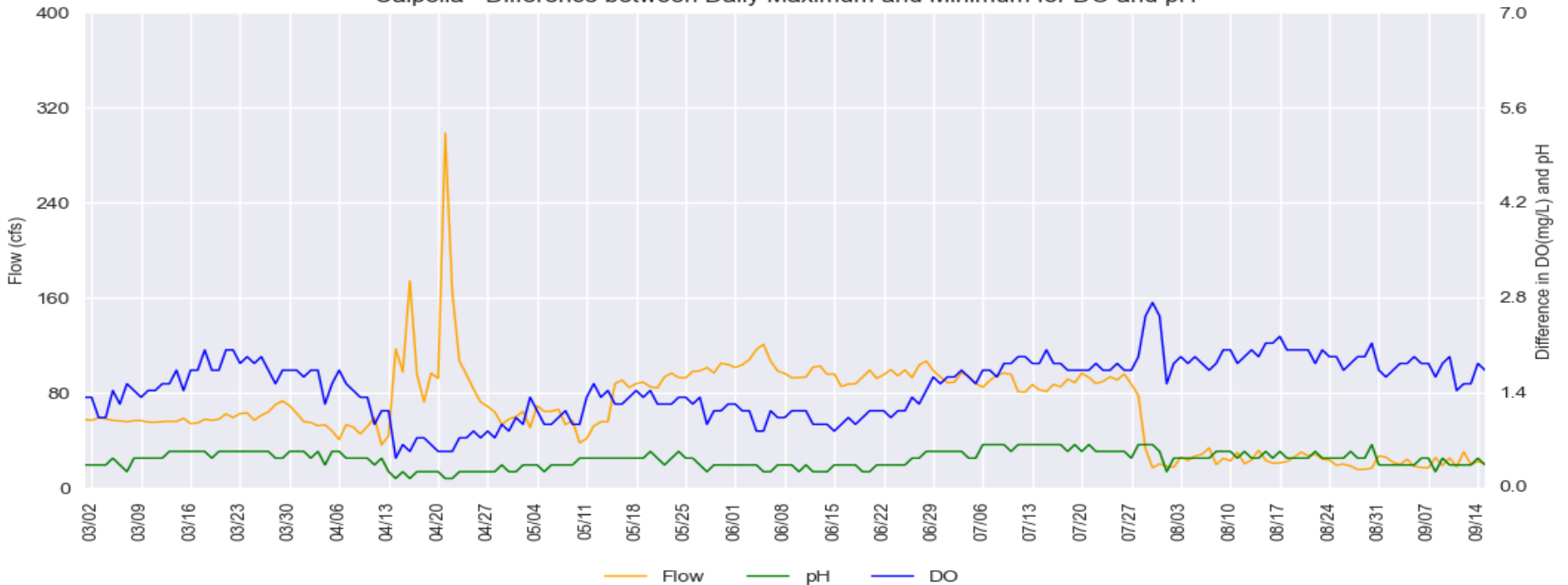
Provisional Data Subject to Revision

### Calpella (East Fork Russian River)

#### Calpella Water Quality Trend



#### Calpella - Difference between Daily Maximum and Minimum for DO and pH



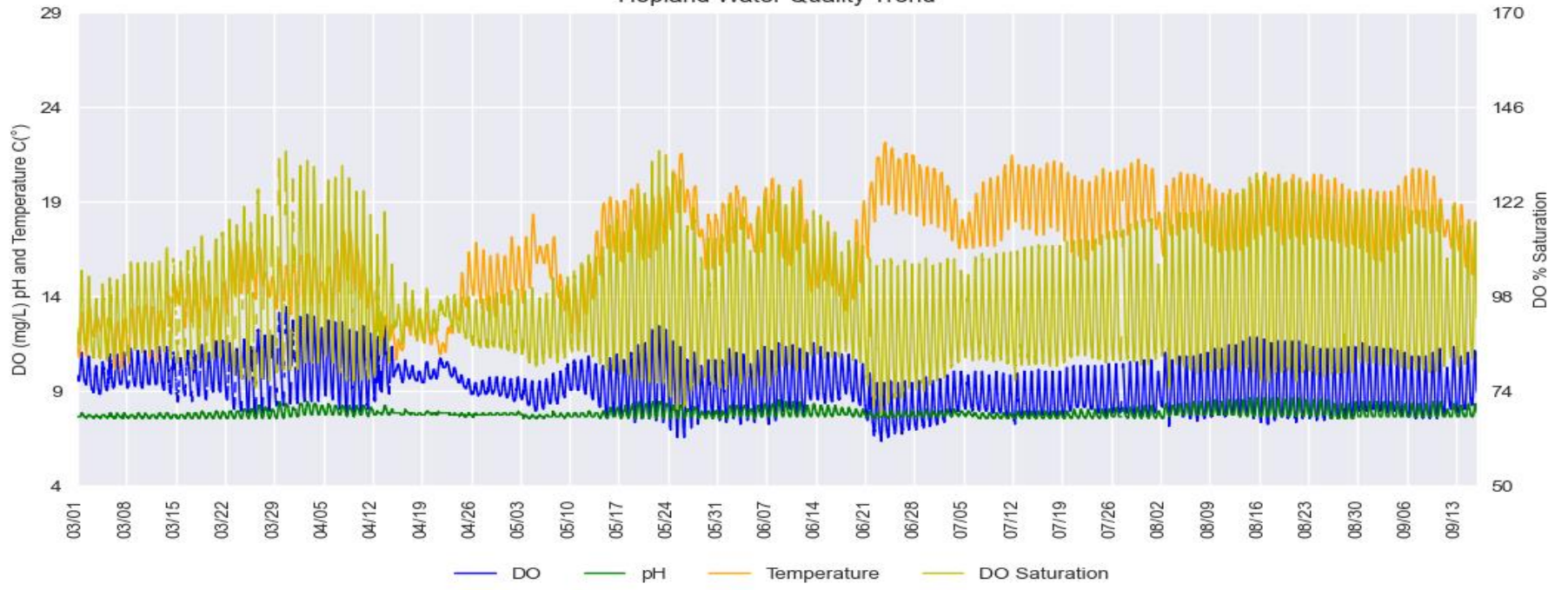


# Russian River Water Quality (March 01, 2022 - September 15, 2022)

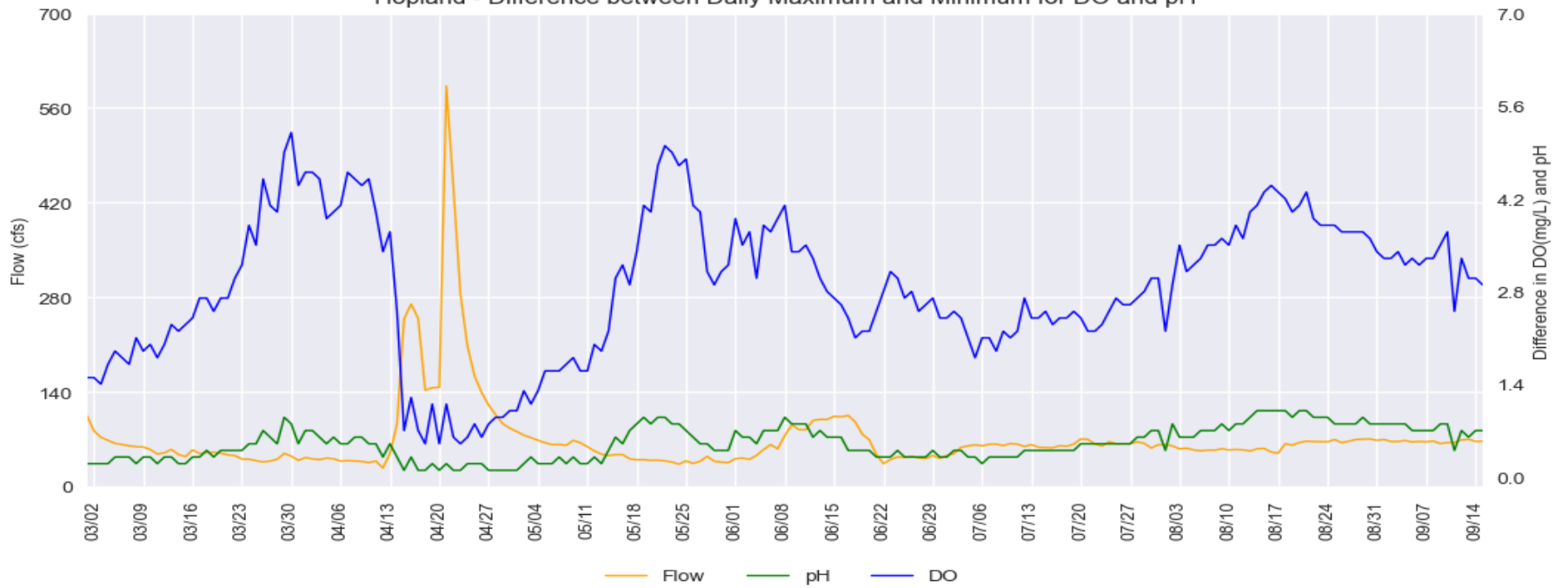
Provisional Data Subject to Revision

## Hopland

### Hopland Water Quality Trend

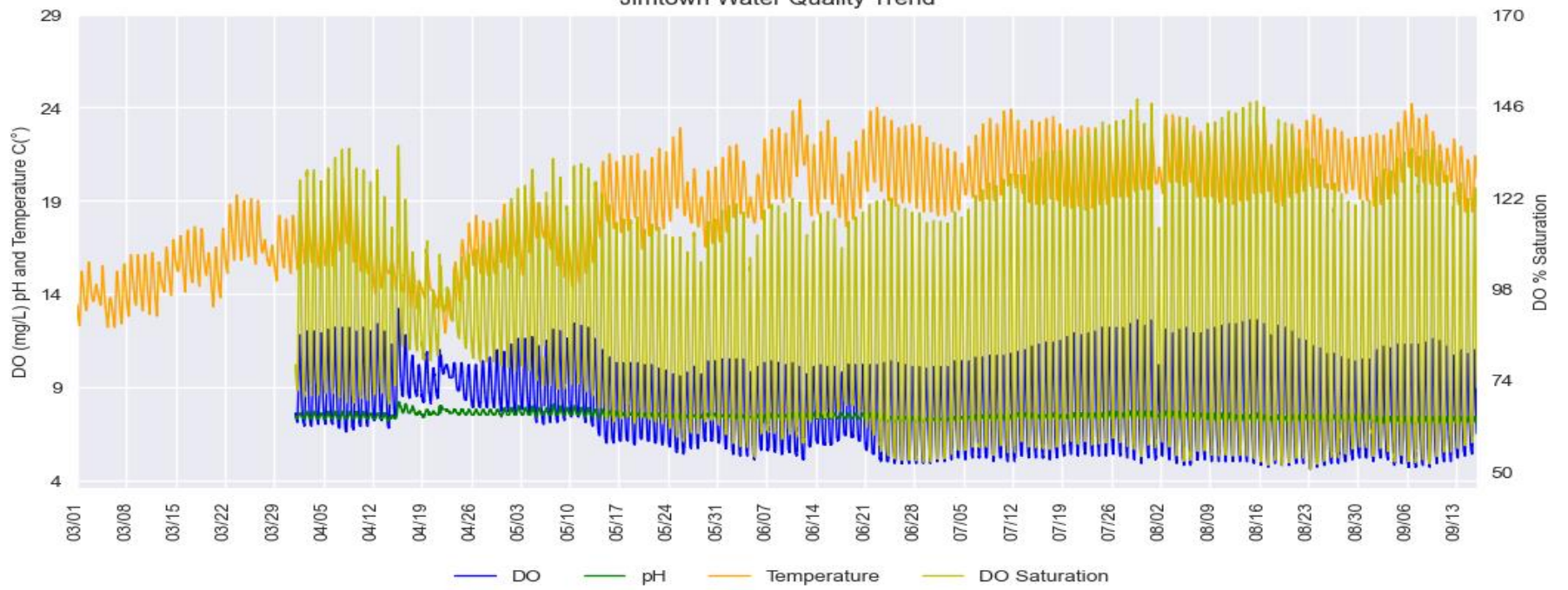


### Hopland - Difference between Daily Maximum and Minimum for DO and pH

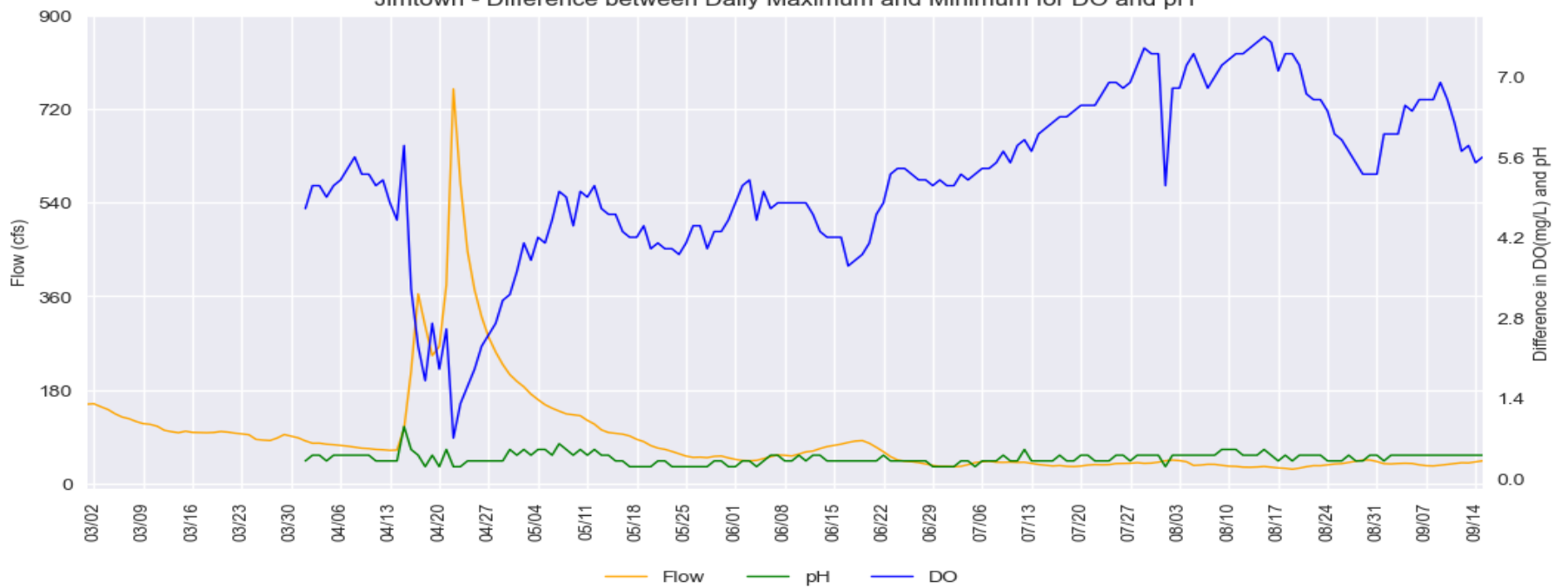


## Jimtown

### Jimtown Water Quality Trend



### Jimtown - Difference between Daily Maximum and Minimum for DO and pH

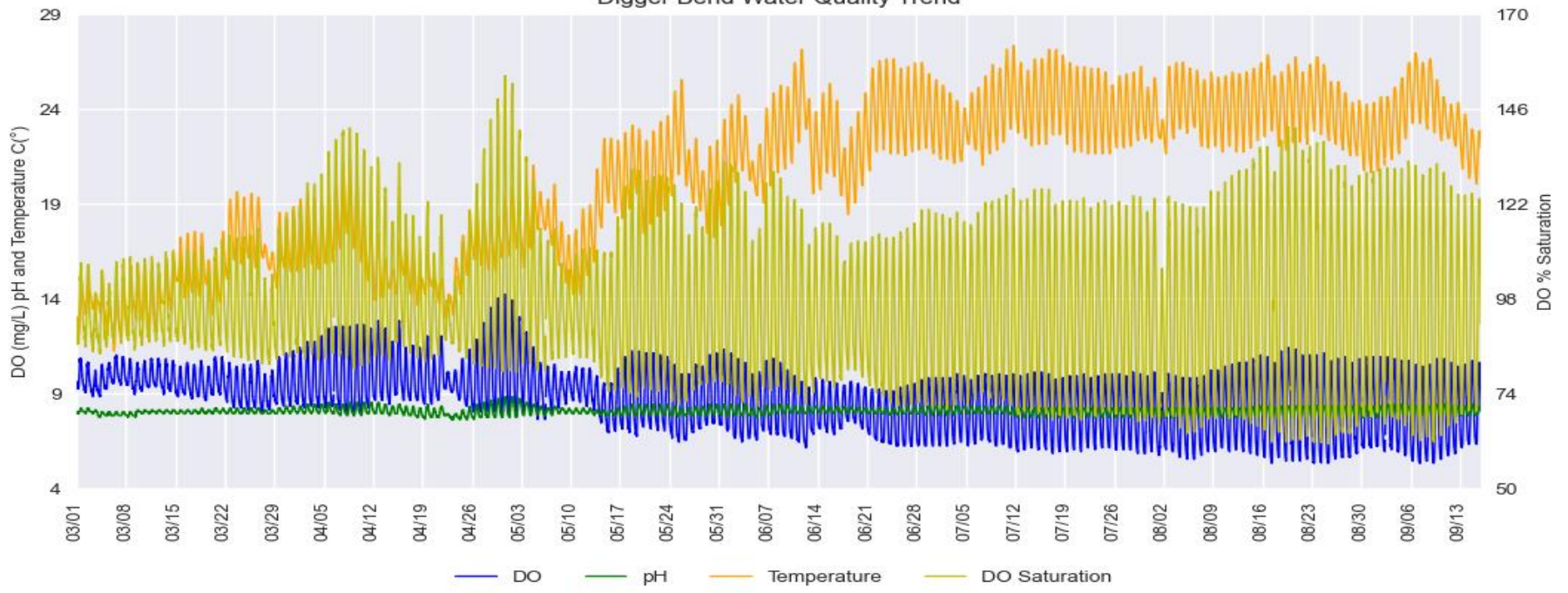


# Russian River Water Quality (March 01, 2022 - September 15, 2022)

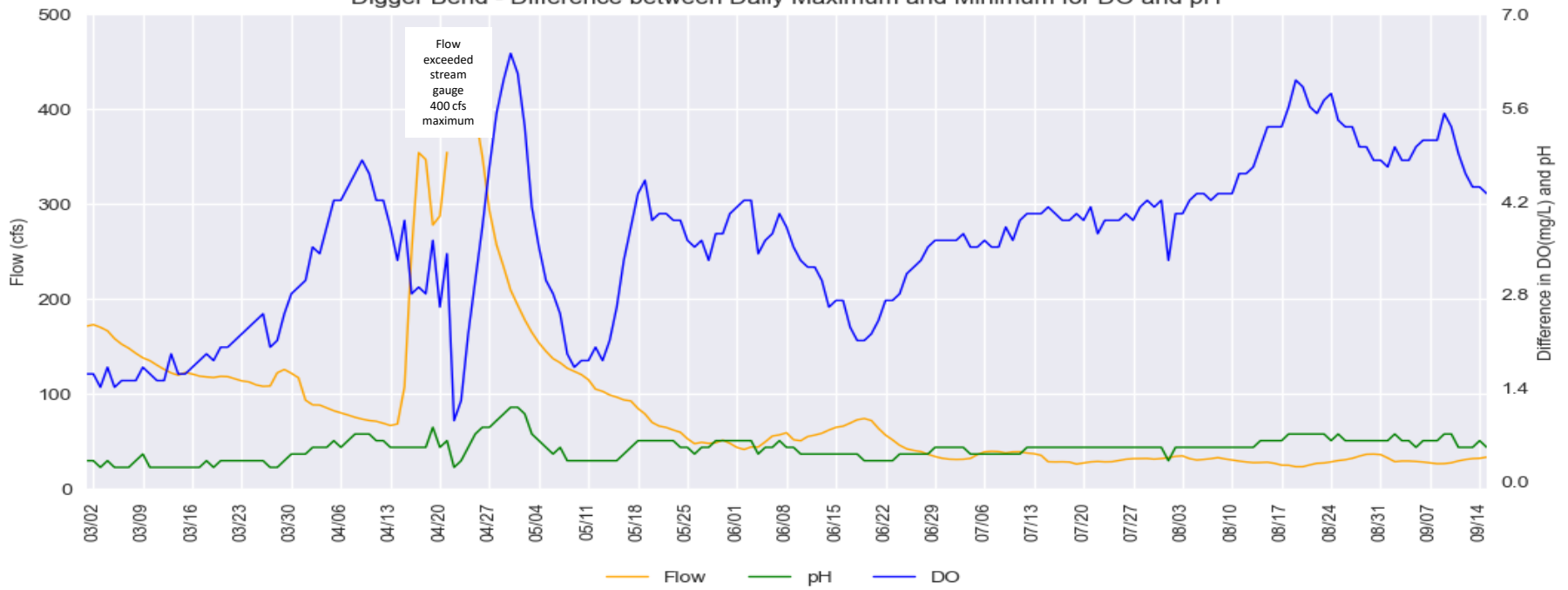
Provisional Data Subject to Revision

## Digger Bend

### Digger Bend Water Quality Trend

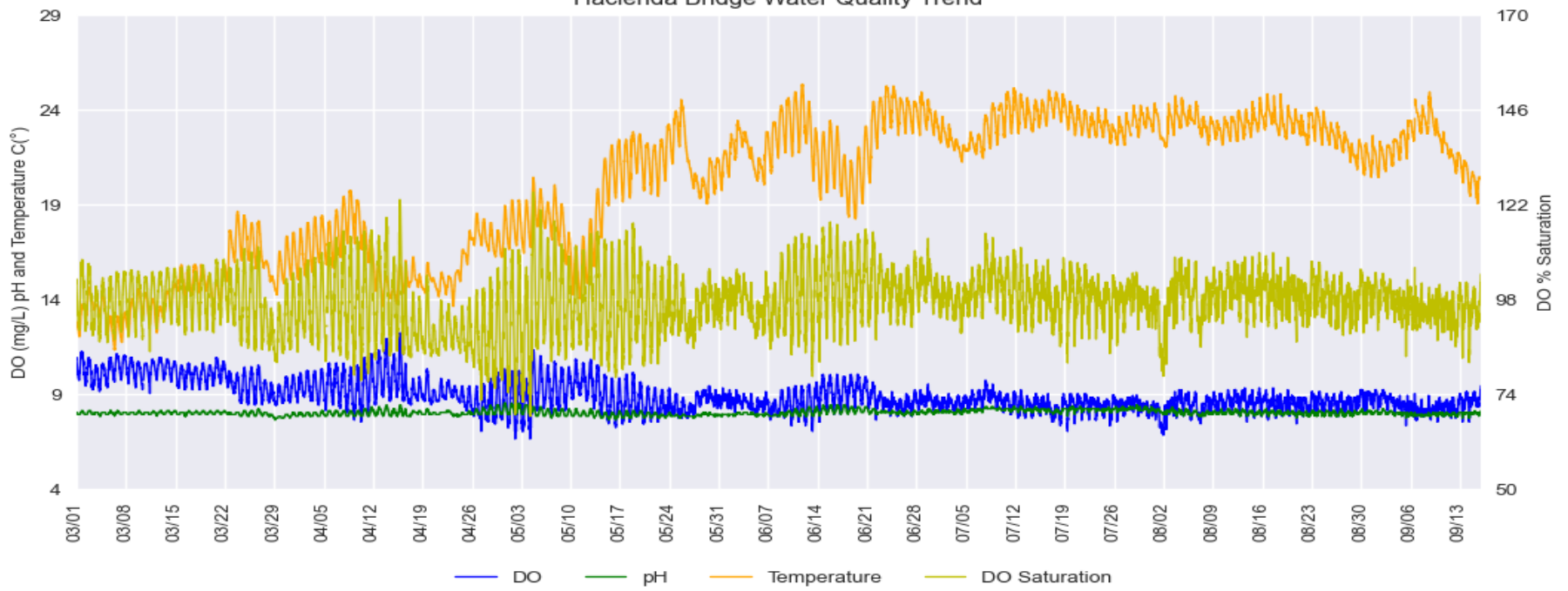


### Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

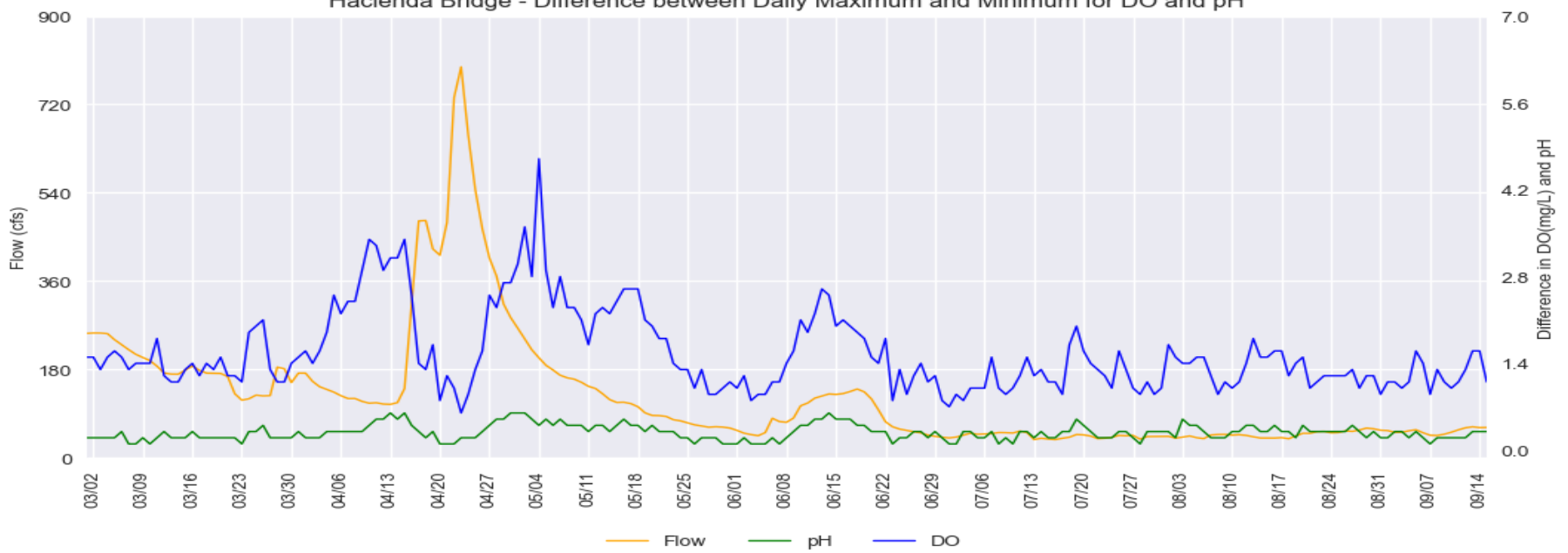


## Hacienda Bridge

### Hacienda Bridge Water Quality Trend



### Hacienda Bridge - Difference between Daily Maximum and Minimum for DO and pH



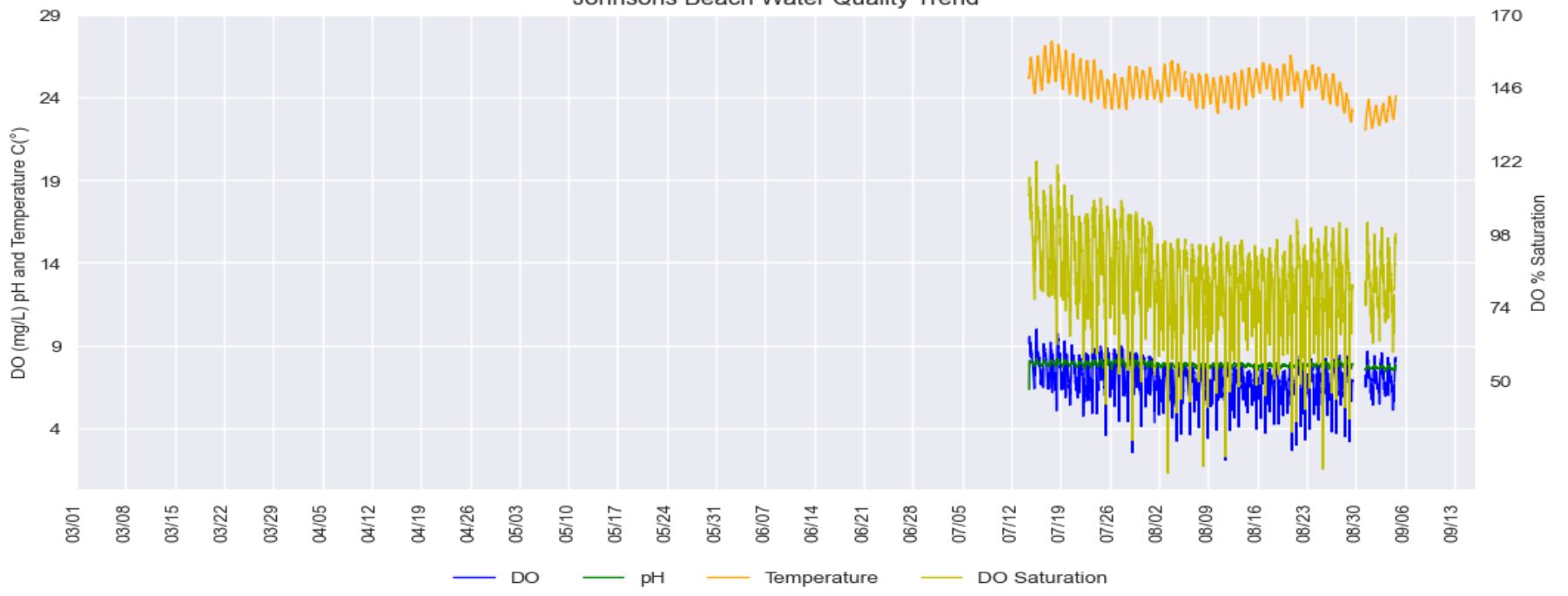


Russian River Water Quality (March 01, 2022 - September 15, 2022)

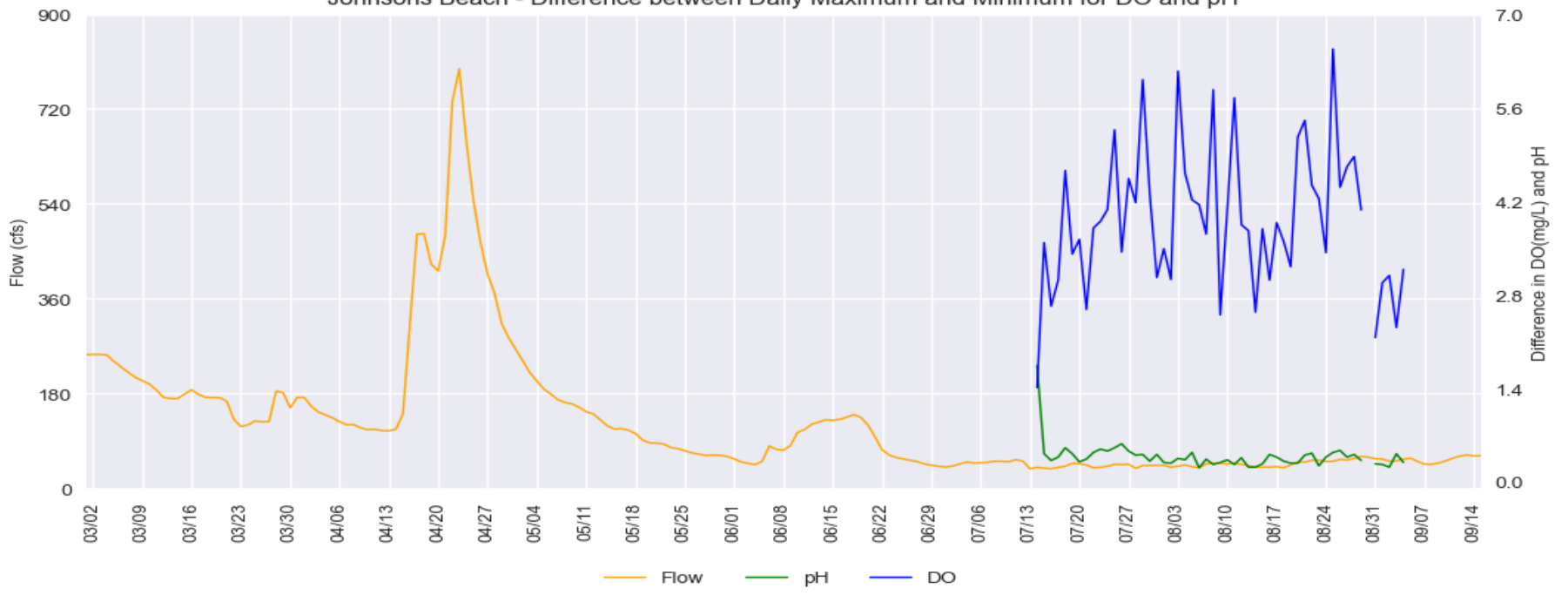
Provisional Data Subject to Revision

Johnsons Beach

Johnsons Beach Water Quality Trend



Johnsons Beach - Difference between Daily Maximum and Minimum for DO and pH

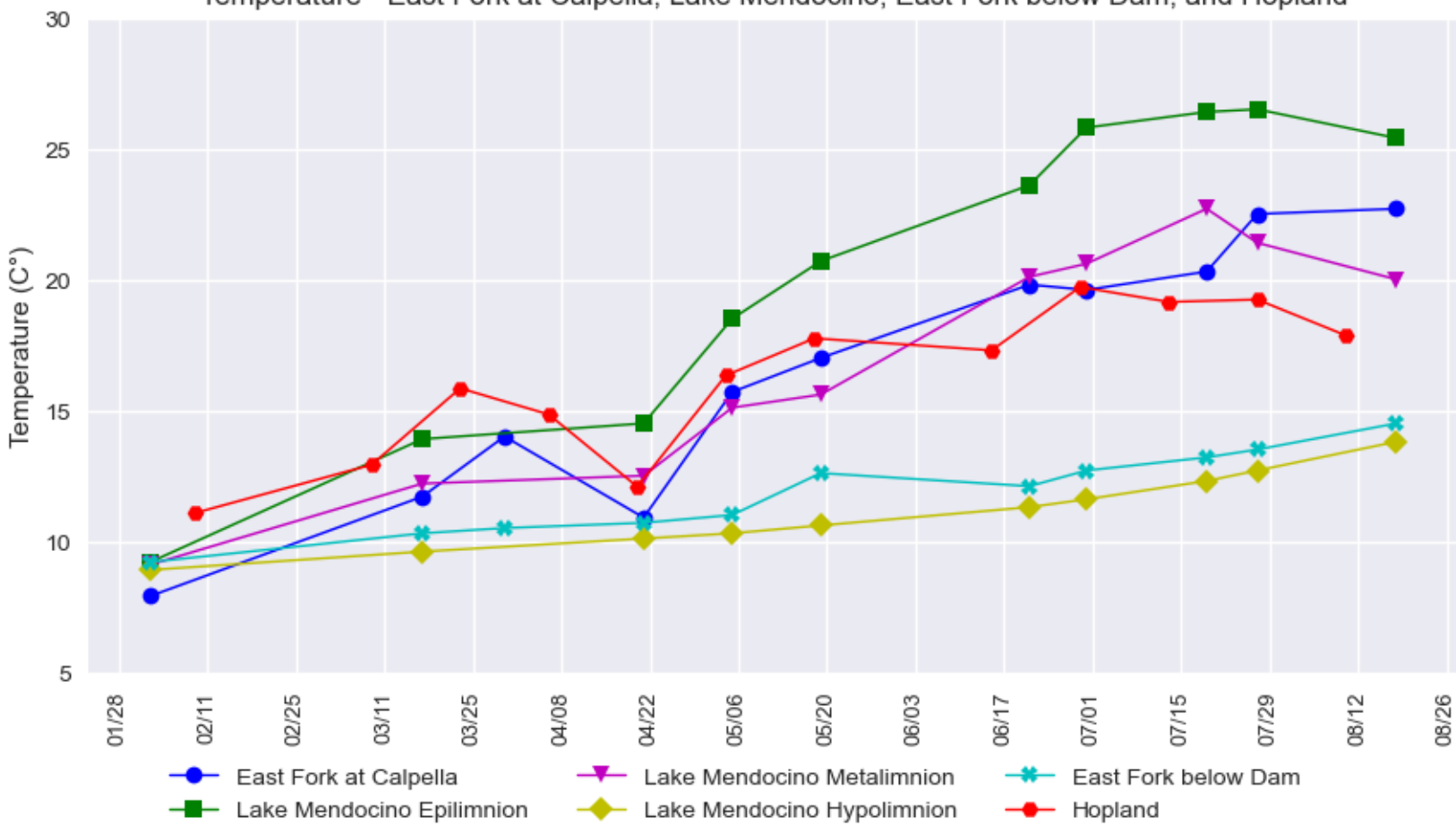


Russian River Water Quality Grab Samples (February 02 - August 18, 2022)

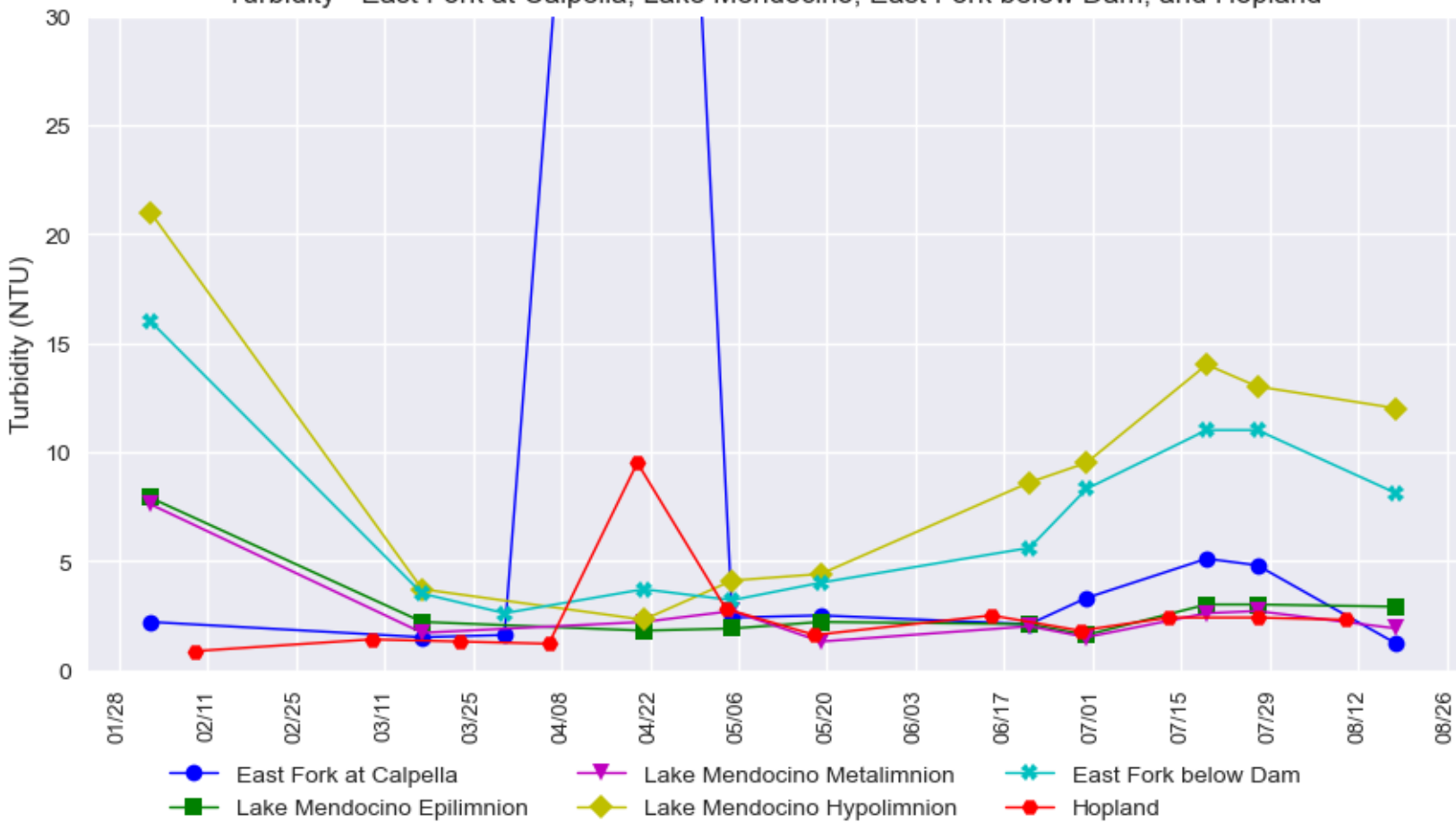
Provisional Data Subject to Revision

Lake Mendocino to Hopland Water Quality

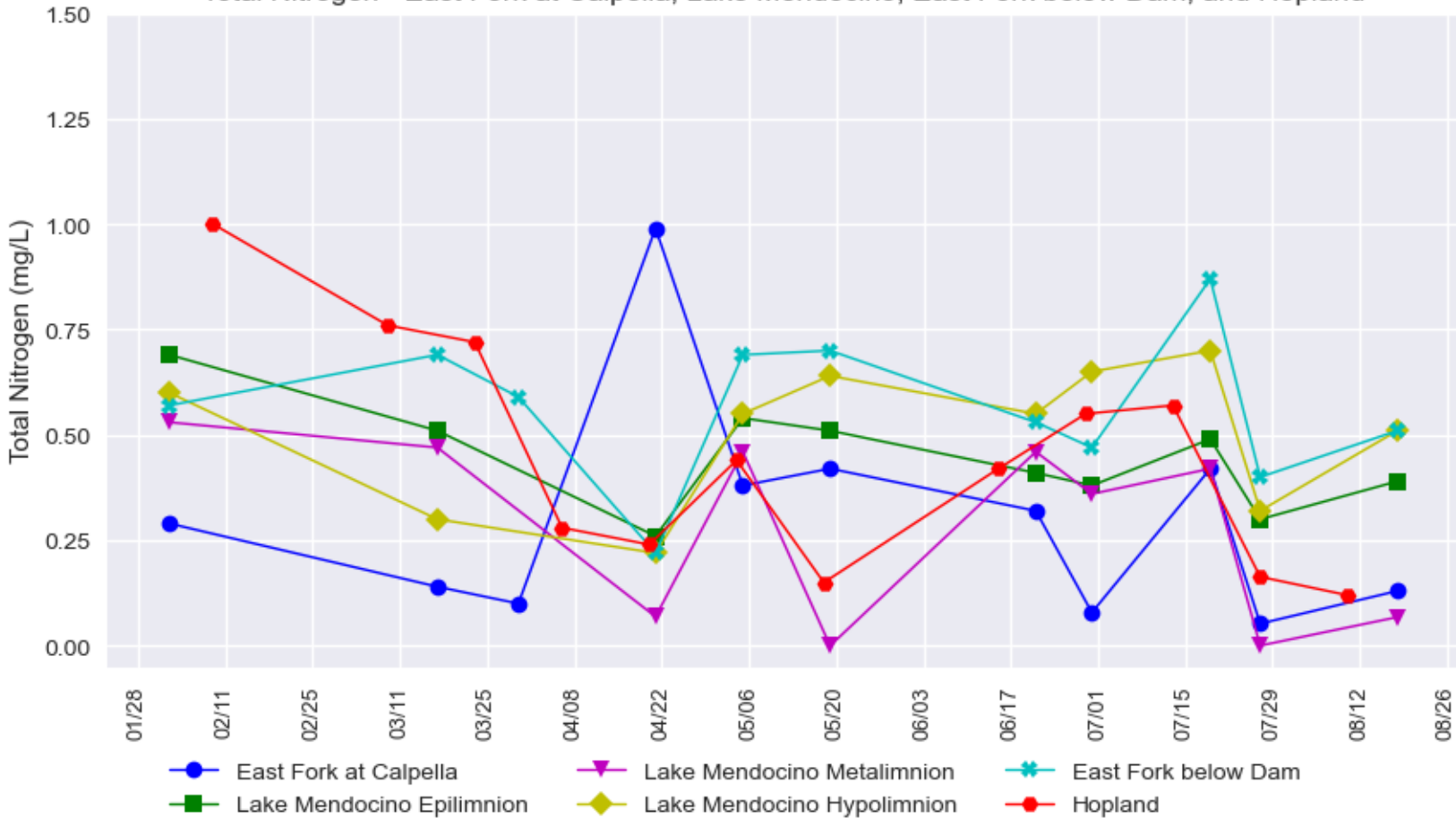
Temperature - East Fork at Calpella, Lake Mendocino, East Fork below Dam, and Hopland



Turbidity - East Fork at Calpella, Lake Mendocino, East Fork below Dam, and Hopland



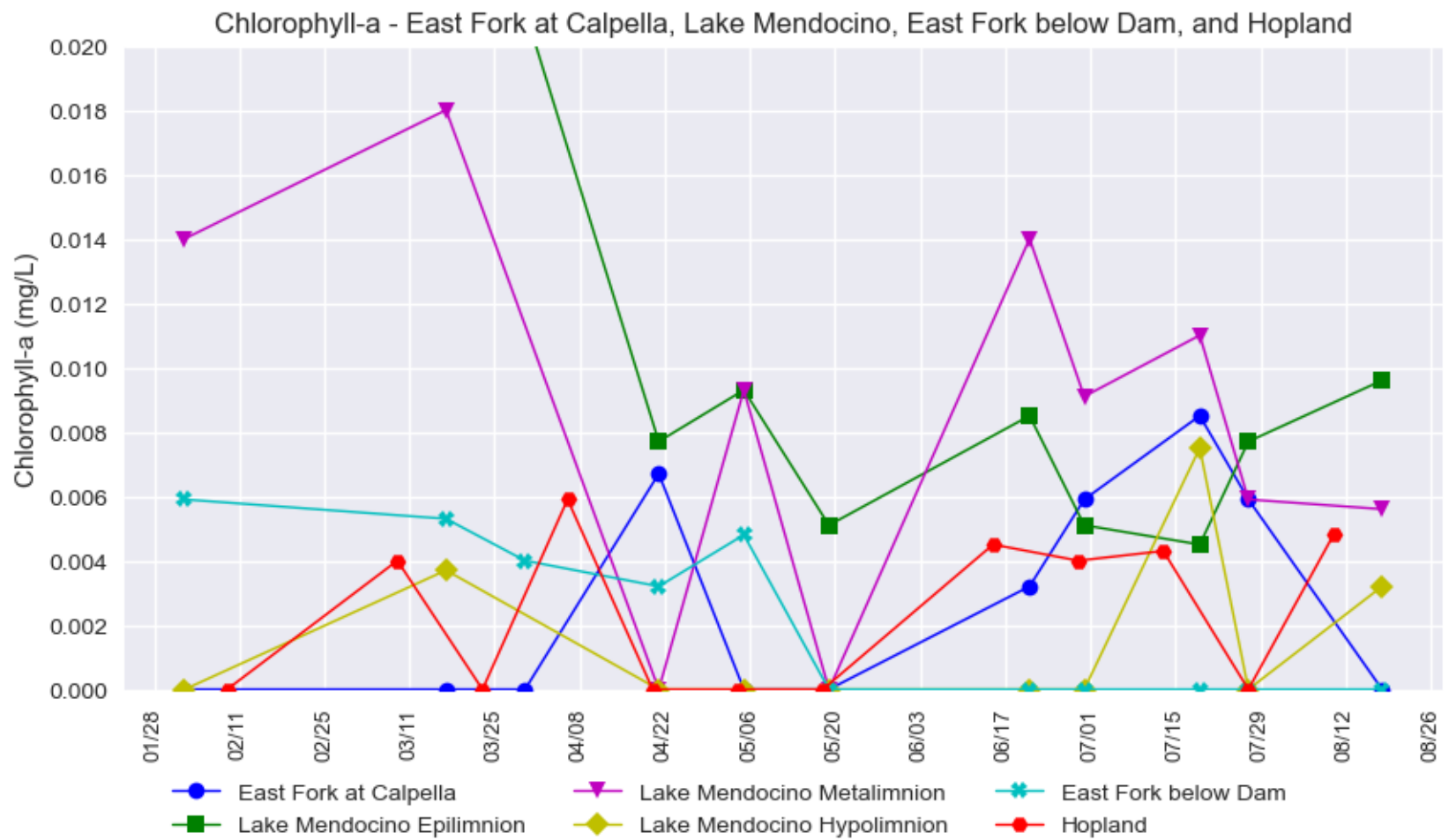
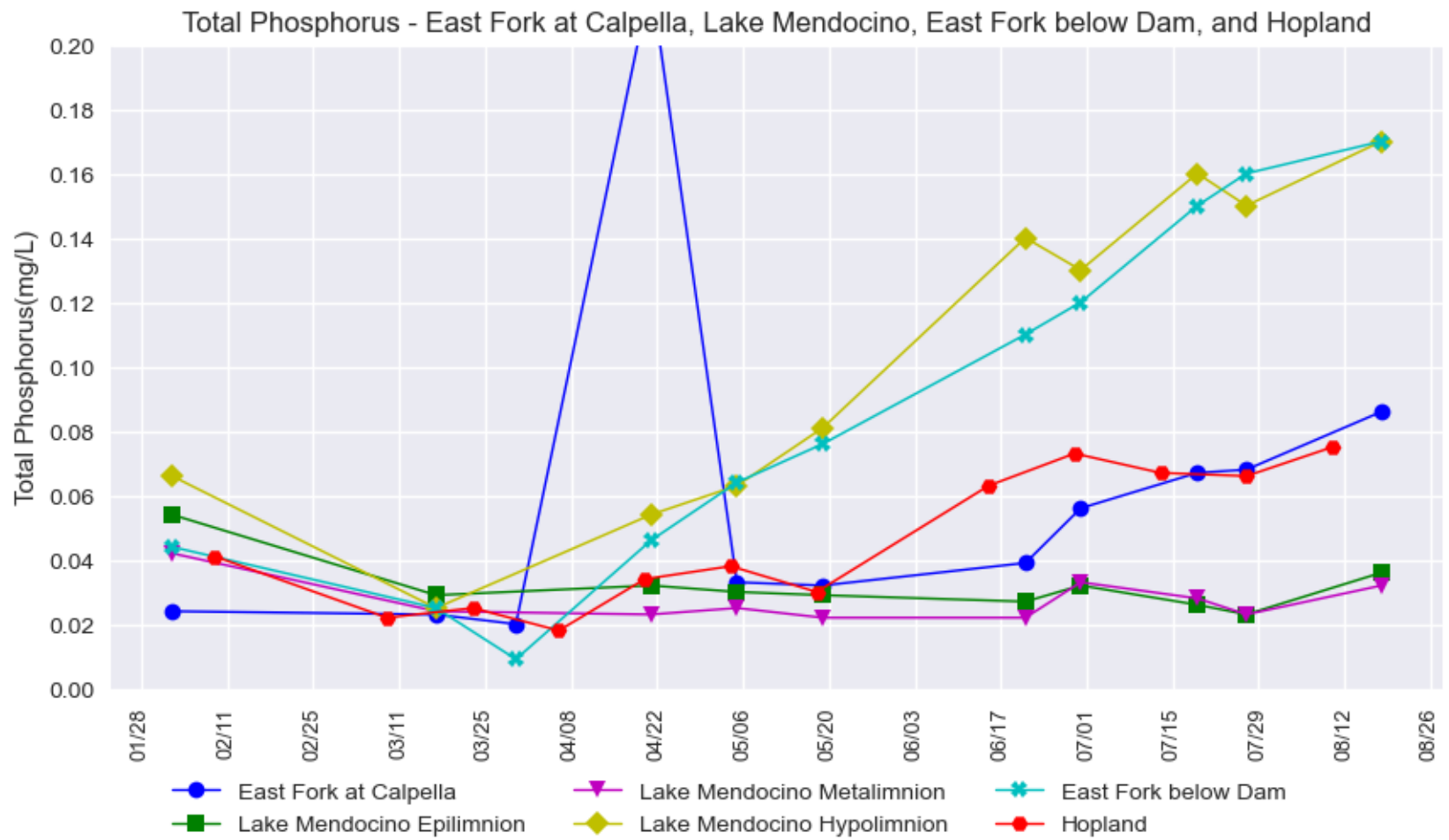
Total Nitrogen - East Fork at Calpella, Lake Mendocino, East Fork below Dam, and Hopland



\*Each marker in the plot represents a grab sample. The lines are used to help visualize the data, but do not represent a continuous data measurement.

Russian River Water Quality Grab Samples (February 02 - August 18, 2022)

Provisional Data Subject to Revision  
 Lake Mendocino to Hopland Water Quality



\*Each marker in the plot represents a grab sample. The lines are used to help visualize the data, but do not represent a continuous data measurement.

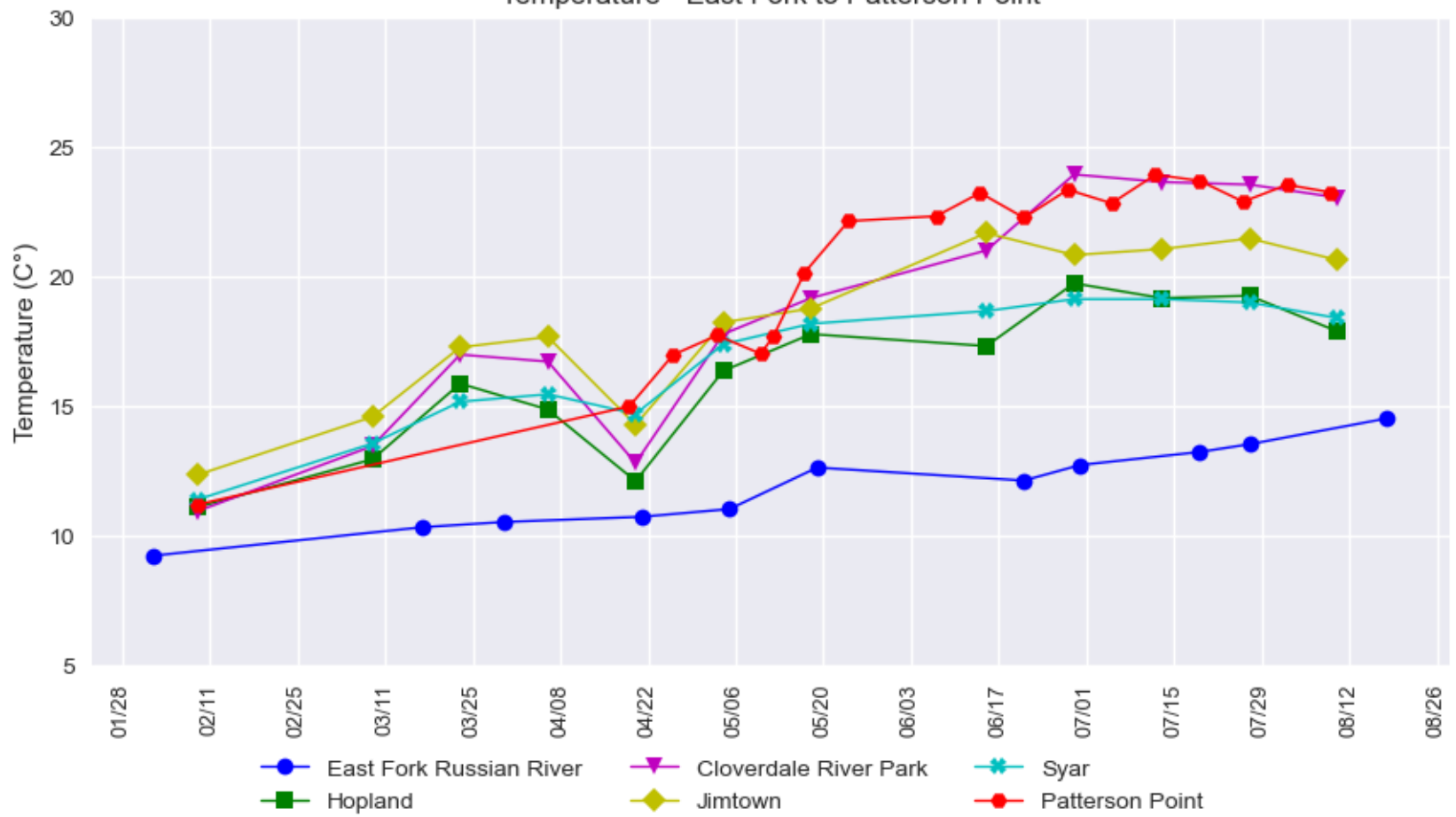


Russian River Water Quality Grab Samples(February 02 - August 18, 2022)

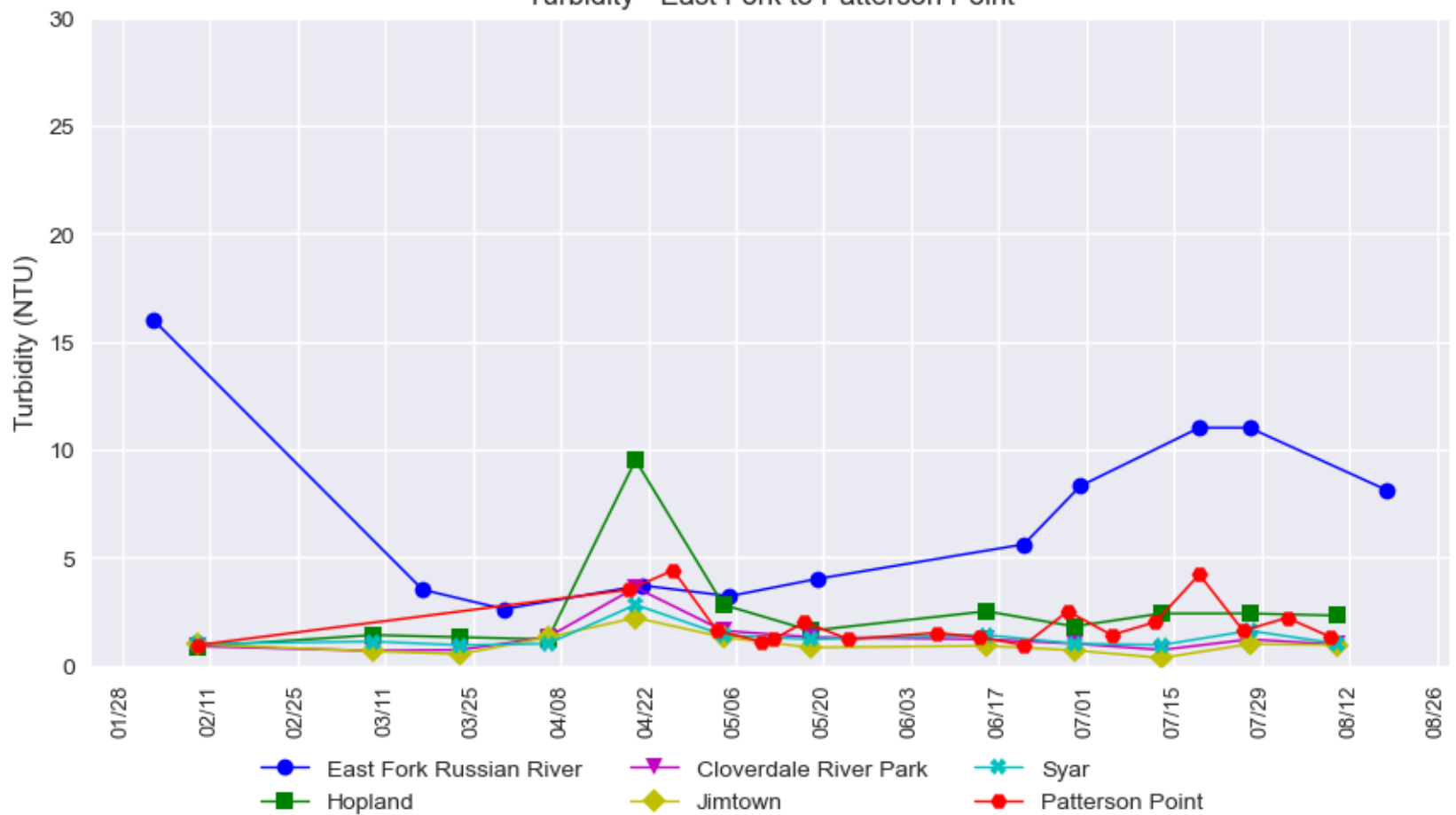
Provisional Data Subject to Revision

East Fork (below Lake Mendocino) to Patterson Point Water Quality

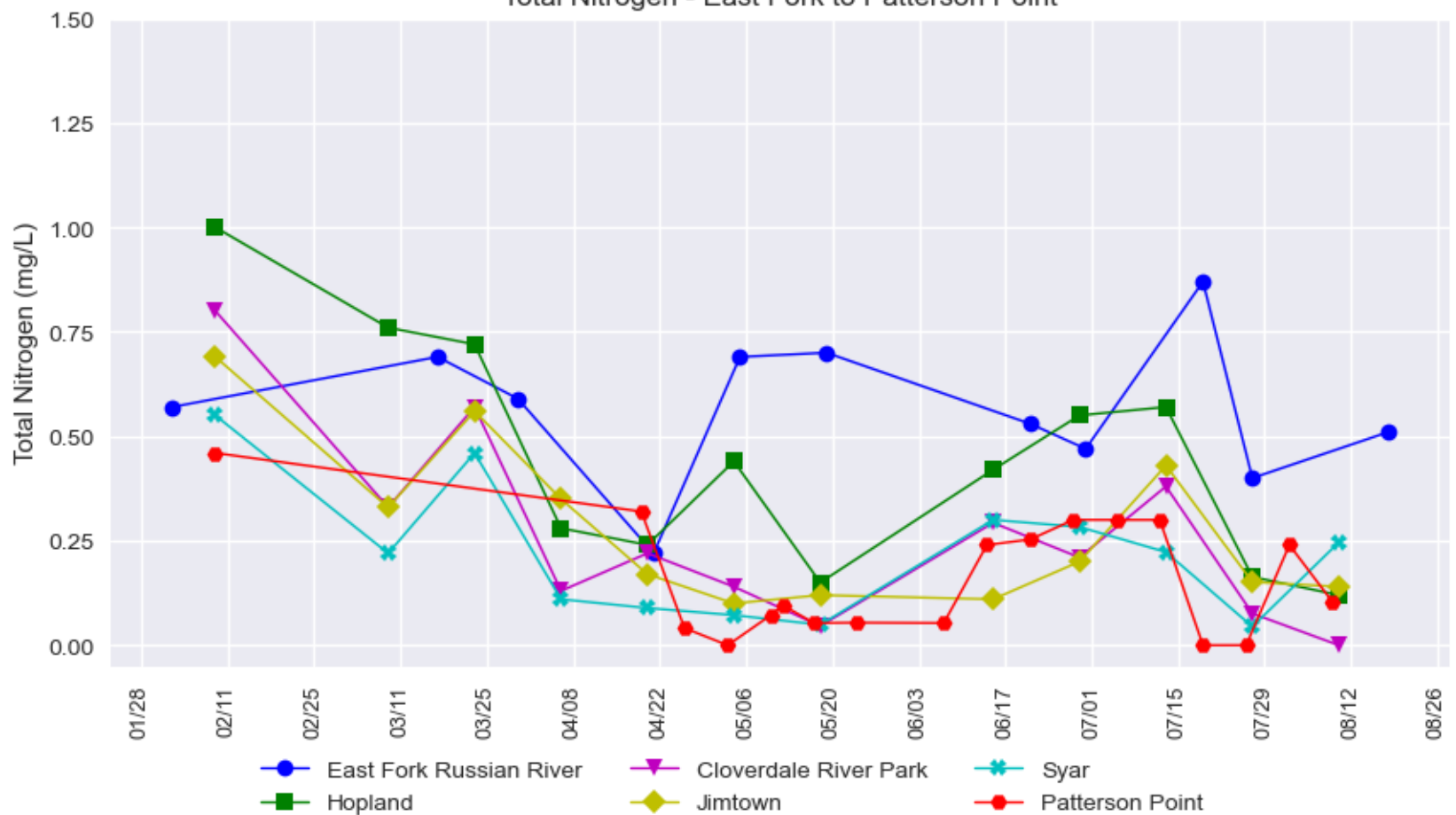
Temperature - East Fork to Patterson Point



Turbidity - East Fork to Patterson Point



Total Nitrogen - East Fork to Patterson Point



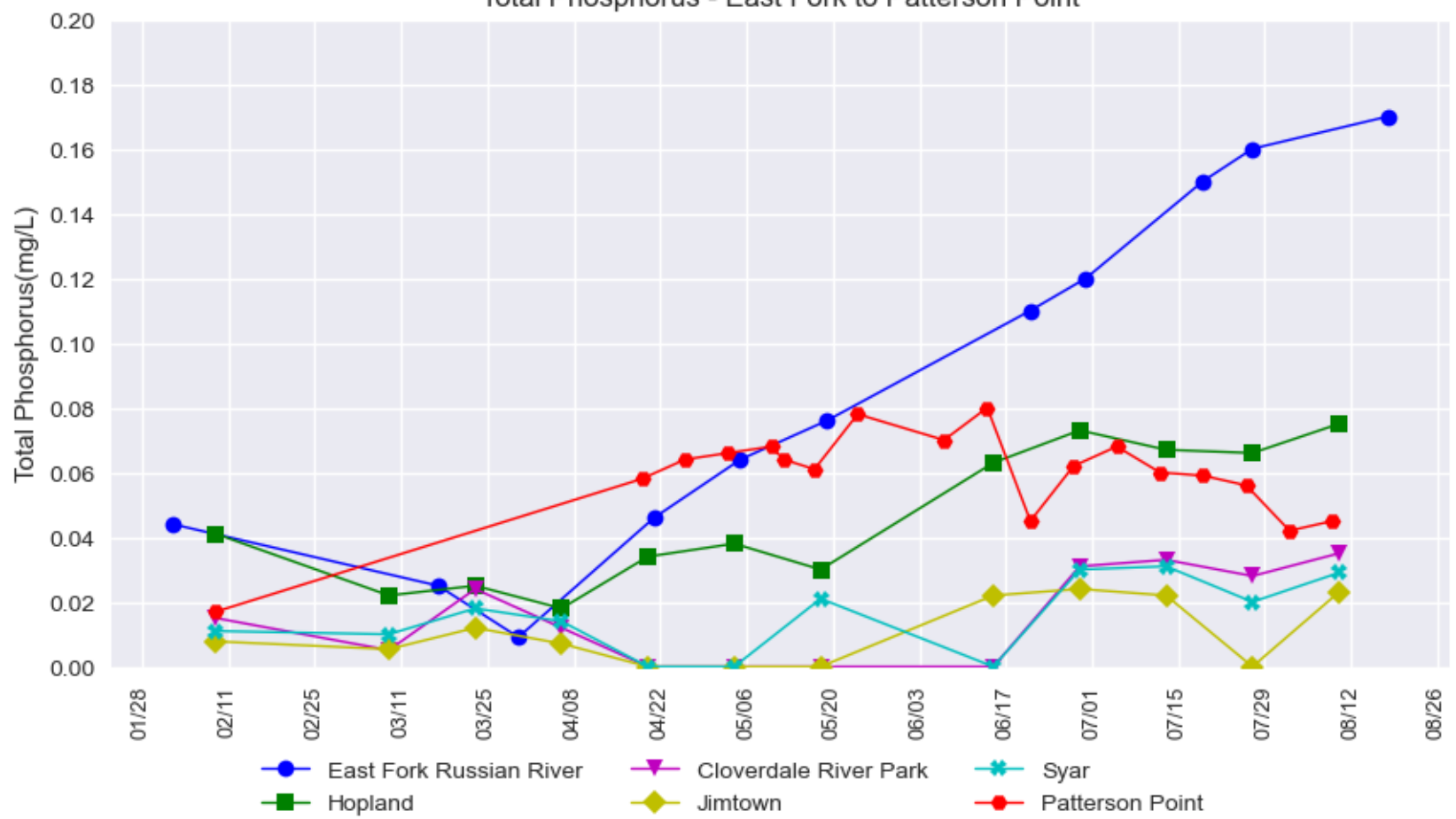
\*Each marker in the plot represents a grab sample. The lines are used to help visualize the data, but do not represent a continuous data measurement.

Russian River Water Quality Grab Samples (February 02 - August 18, 2022)

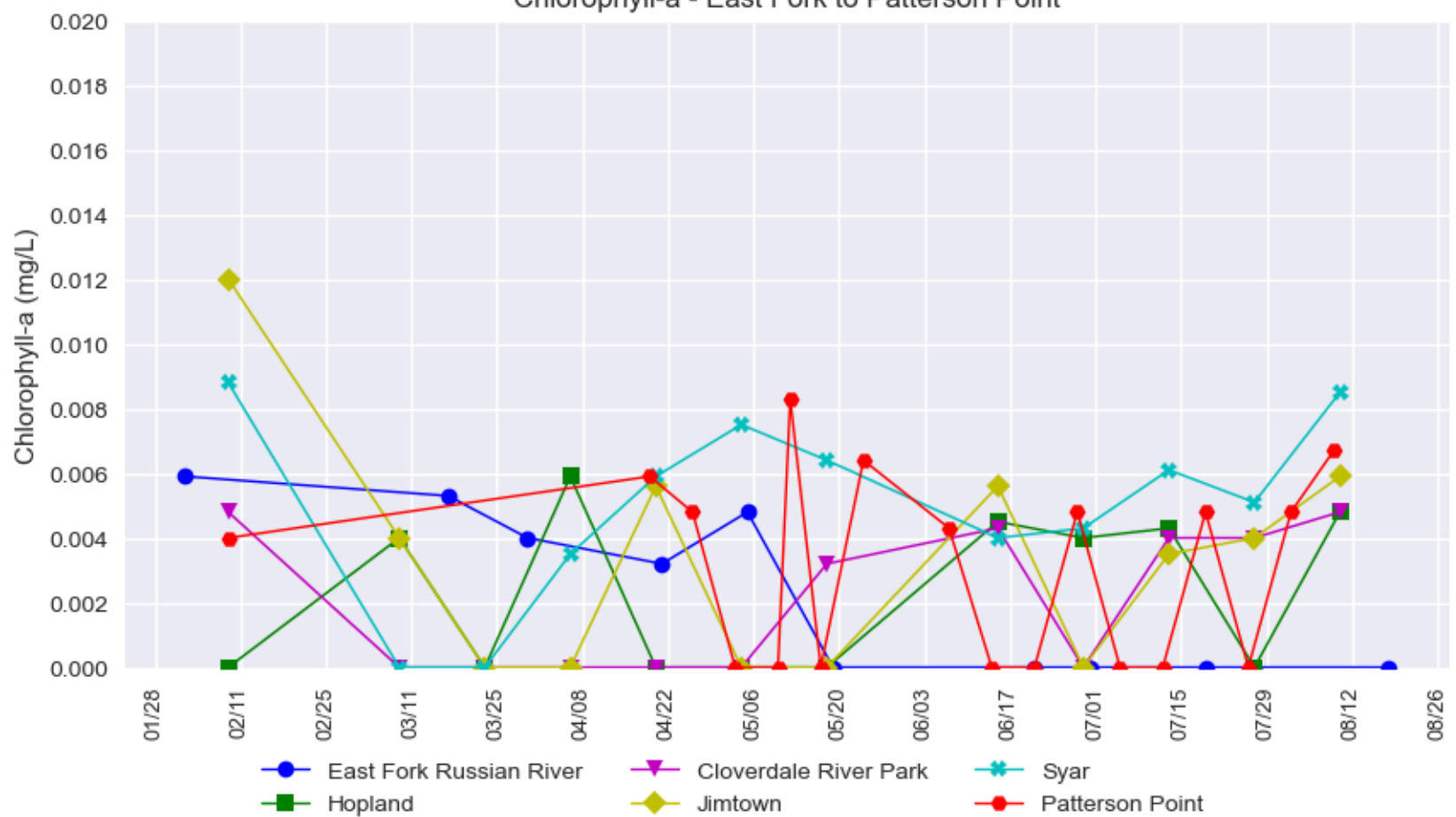
Provisional Data Subject to Revision

East Fork (below Lake Mendocino) to Syar Water Quality

Total Phosphorus - East Fork to Patterson Point



Chlorophyll-a - East Fork to Patterson Point



\*Each marker in the plot represents a grab sample. The lines are used to help visualize the data, but do not represent a continuous data measurement.



**Russian River Water Quality Grab Samples (July 19 - September 6, 2022)  
Provisional Data Subject to Revision**

Parameter***	CDPH Guidance*	Date	Patterson Point	Monte Rio	Vacation Beach
Total Coliforms MPN/100 mL	10,000	7/19/2022	1314**	2046**	9208**
		7/26/2022	959**	1670**	31**
		8/2/2022	1017**	1354**	6488**
		8/9/2022	2140**	2978**	2282**
		8/16/2022	1046.2	1046.2	1986.3
		8/23/2022	1553.1	1413.6	1986.3
		8/30/2022	1720**	1720**	1956**
		9/6/2022	1986.3	1732.9	2419.6
E. Coli MPN/100 mL	235	7/19/2022	41	39.3	13.5
		7/26/2022	23.1	14.6	344.8
		8/2/2022	4.1	21.6	2
		8/9/2022	39.3	23.3	3
		8/16/2022	5.2	10.8	12.2
		8/23/2022	7.5	19.9	13.5
		8/30/2022	12.1	12.2	17.3
		9/6/2022	65.7	30.9	23.1
Enterococcus MPN/100 mL****	61	7/19/2022	63	56.3	41
		7/26/2022	16	44.1	1
		8/2/2022	2	18.5	8.4
		8/9/2022	27.5	13.2	2
		8/16/2022	5.2	10.9	31
		8/23/2022	8.6	8.4	4.1
		8/30/2022	3.1	9.7	22.1
		9/6/2022	65.1	7.5	7.5

\*California Department of Public Health (CDPH) Guidance for Fresh Water Beaches - Single Sample Values:

Freshwater beaches include Patterson Point, Monte Rio, and Vacation Beach

Beach posting is recommended when indicator organisms exceed any of the above corresponding levels

\*\*Sample diluted 1:10

\*\*\*Method Detection Limit for all parameters = 2 MPN/100 mL or 20 MPN/100 mL if sample diluted

\*\*\*\*We continue to collect enterococcus data, however it is not a reliable fecal indicator bacteria in freshwater environments and is not being relied upon for posting at freshwater beaches, per SoCo DHS and NCRWQCB.

**Russian River Water Quality Grab Samples (June 14 - August 16, 2022)**  
**Provisional Data Subject to Revision**

Parameter		MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach			
Temperature	-	°C	6/14/2022	23.2	23.7	22.6				
			6/21/2022	22.2	22.5	22.3				
			6/28/2022	23.3	23.2	23.8				
			7/5/2022	22.8	23.0	23.1				
			7/12/2022	23.9	23.7	24.5				
			7/19/2022	23.7	23.9	24.4				
			7/26/2022	22.9	23.1	23.3				
			8/2/2022	23.1	23.2	23.5				
			8/9/2022	23.2	23.6	23.2				
			8/16/2022	23.5	23.6	24.0				
Nutrients	Ammonia as N	0.1	mg/L	6/14/2022	ND	ND	ND			
				6/21/2022	ND	ND	ND			
				6/28/2022	ND	ND	ND			
				7/5/2022	ND	ND	ND			
				7/12/2022	ND	ND	0.11			
				7/19/2022	ND	ND	ND			
				7/26/2022	ND	ND	ND			
				8/2/2022	ND	ND	ND			
				8/9/2022	0.12	0.14	0.1			
	8/16/2022	ND	ND	ND						
	Nitrate as N	0.04	mg/L	6/14/2022	ND	ND	ND			
				6/21/2022	0.053	0.054	ND			
				6/28/2022	ND	ND	ND			
				7/5/2022	ND	ND	ND			
				7/12/2022	ND	0.063	ND			
				7/19/2022	ND	ND	ND			
				7/26/2022	ND	ND	ND			
				8/2/2022	ND	ND	ND			
8/9/2022				ND	ND	ND				
8/16/2022	ND	0.063	ND							
Nutrients	Nitrite as N	0.05	mg/L	6/14/2022	ND	ND	ND			
				6/21/2022	ND	ND	ND			
				6/28/2022	ND	ND	ND			
				7/5/2022	ND	ND	ND			
				7/12/2022	ND	ND	ND			
				7/19/2022	ND	ND	ND			
				7/26/2022	ND	ND	ND			
				8/2/2022	ND	ND	ND			
				8/9/2022	ND	ND	ND			
				8/16/2022	ND	ND	ND			
				Total Organic Nitrogen as N	0.1	mg/L	6/14/2022	0.24	0.2	0.21
							6/21/2022	0.20	ND	ND
	6/28/2022	0.27	ND				ND			
	7/5/2022	0.30	0.28				0.28			
	7/12/2022	0.30	0.25				ND			
	7/19/2022	ND	ND				0.47			
	7/26/2022	ND	ND				ND			
	8/2/2022	ND	ND				0.24			
	8/9/2022	ND	ND				ND			
	8/16/2022	ND	ND				ND			
	Total Kjeldahl Nitrogen	0.2	mg/L				6/14/2022	0.24	0.2	0.21
							6/21/2022	0.2	ND	ND
				6/28/2022	0.27	ND	0.2			
				7/5/2022	0.3	0.28	0.28			
				7/12/2022	0.3	0.25	ND			
				7/19/2022	ND	ND	0.47			
				7/26/2022	ND	ND	ND			
				8/2/2022	ND	ND	0.24			
				8/9/2022	ND	ND	ND			
				8/16/2022	ND	ND	ND			
				Total Phosphorus	0.02	mg/L	6/14/2022	0.080	0.073	0.064
							6/21/2022	0.045	0.040	0.036
	6/28/2022	0.062	0.063				0.057			
	7/5/2022	0.068	0.069				0.060			
	7/12/2022	0.060	0.060				0.044			
	7/19/2022	0.059	0.058				0.050			
7/26/2022	0.056	0.055	0.048							
8/2/2022	0.056	0.052	0.042							
8/9/2022	0.060	0.055	0.045							
8/16/2022	0.056	0.051	0.044							
Total Orthophosphate	0.03	mg/L	6/14/2022				0.18	0.17	0.13	
			6/21/2022				0.081	0.077	0.061	
			6/28/2022	0.11	0.12	0.093				
			7/5/2022	0.14	0.13	0.11				
			7/12/2022	0.12	0.11	0.077				
			7/19/2022	0.12	0.11	0.089				
			7/26/2022	0.099	0.099	0.076				
			8/2/2022	0.11	0.098	0.078				
			8/9/2022	0.093	0.085	0.057				
			8/16/2022	0.079	0.071	0.043				



**Russian River Water Quality Grab Samples (June 14 - August 16, 2022)**  
**Provisional Data Subject to Revision**

Parameter		MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach
Chlorophyll	Chlorophyll A	0.003	mg/L	6/14/2022	ND	ND	0.0051
				6/21/2022	ND	ND	0.0043
				6/28/2022	0.0048	ND	0.0045
				7/5/2022	ND	0.0043	0.0040
				7/12/2022	ND	ND	0.0040
				7/19/2022	0.0048	0.0045	ND
				7/26/2022	ND	ND	0.0043
				8/2/2022	0.0048	0.0045	0.0048
				8/9/2022	ND	ND	0.0067
				8/16/2022	0.0051	ND	0.0032
Carbon	Total Organic Carbon	0.3	mg/L	6/14/2022	2.48	2.34	2.31
				6/21/2022	2.12	2.24	2.14
				6/28/2022	2.07	2.07	2.15
				7/5/2022	2.09	2.05	2.22
				7/12/2022	2.79	2.62	2.77
				7/19/2022	2.56	2.50	2.56
				7/26/2022	2.52	2.41	2.44
				8/2/2022	2.58	2.73	2.66
				8/9/2022	2.43	2.39	2.33
	8/16/2022	2.24	2.29	2.19			
	Dissolved Organic Carbon	0.2	mg/L	6/14/2022	2.06	1.91	1.88
				6/21/2022	1.94	1.93	2.17
				6/28/2022	1.73	1.77	1.83
				7/5/2022	1.70	1.75	1.72
				7/12/2022	1.99	1.92	1.98
				7/19/2022	2.24	1.98	2.07
				7/26/2022	1.99	2.03	2.01
				8/2/2022	2.11	2.25	2.06
8/9/2022				2.02	1.96	1.97	
8/16/2022	1.91	1.87	2.04				
Solids	Turbidity	0.1	NTU	6/14/2022	1.3	1.8	1.7
				6/21/2022	0.9	1.0	1.3
				6/28/2022	2.5	2.9	3.2
				7/5/2022	1.4	1.8	1.8
				7/12/2022	2.0	1.9	1.7
				7/19/2022	4.2	3.2	1.9
				7/26/2022	1.6	2.1	1.6
				8/2/2022	2.1	2.4	2.2
				8/9/2022	1.5	1.3	1.3
	8/16/2022	1.2	1.2	1.8			
	TDS	10	mg/L	6/14/2022	170	160	160
				6/21/2022	150	180	160
				6/28/2022	170	200	180
				7/5/2022	160	160	160
				7/12/2022	150	150	140
				7/19/2022	150	160	150
				7/26/2022	160	150	150
				8/2/2022	180	170	150
8/9/2022				160	160	150	
8/16/2022	140	140	140				