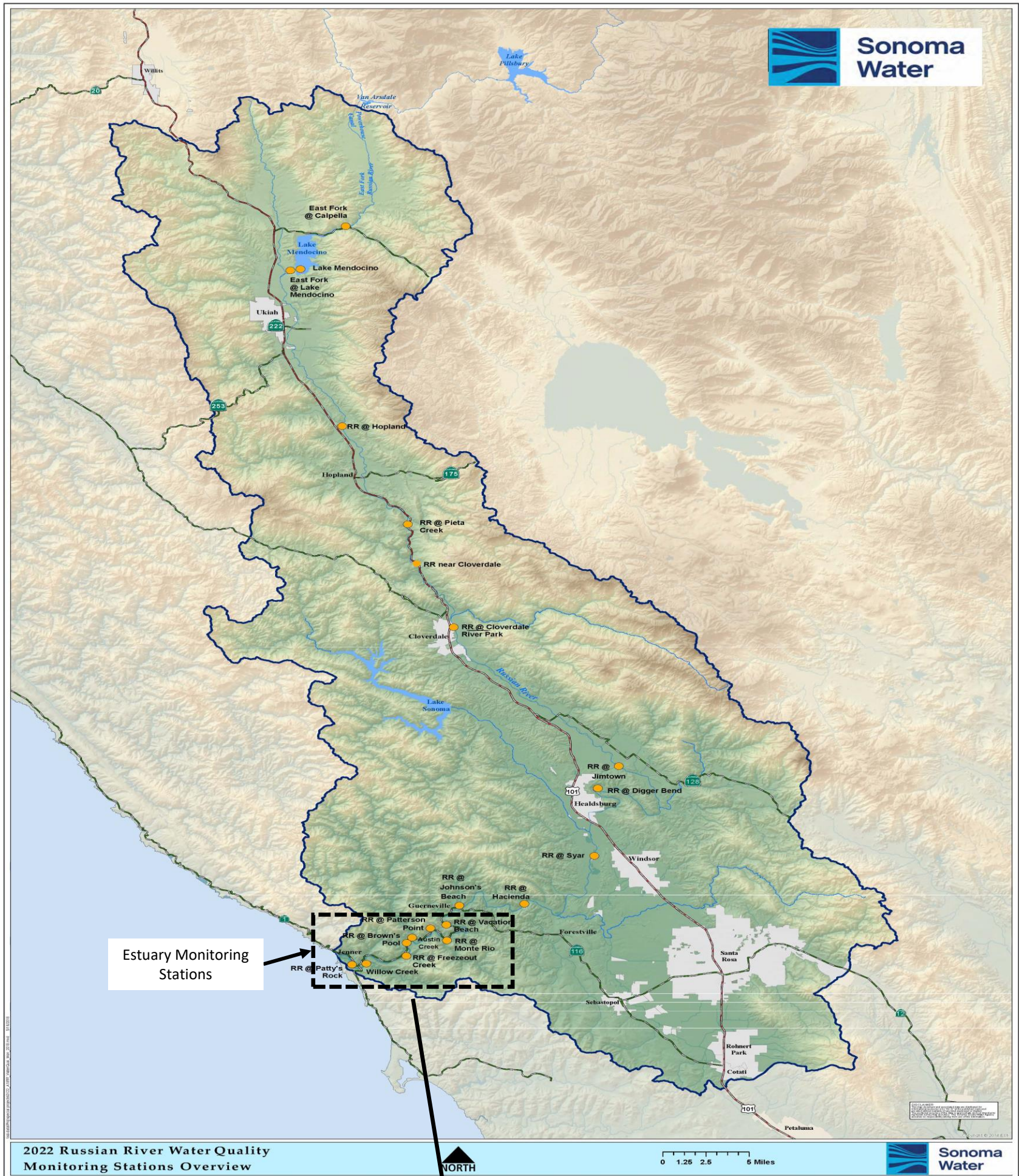


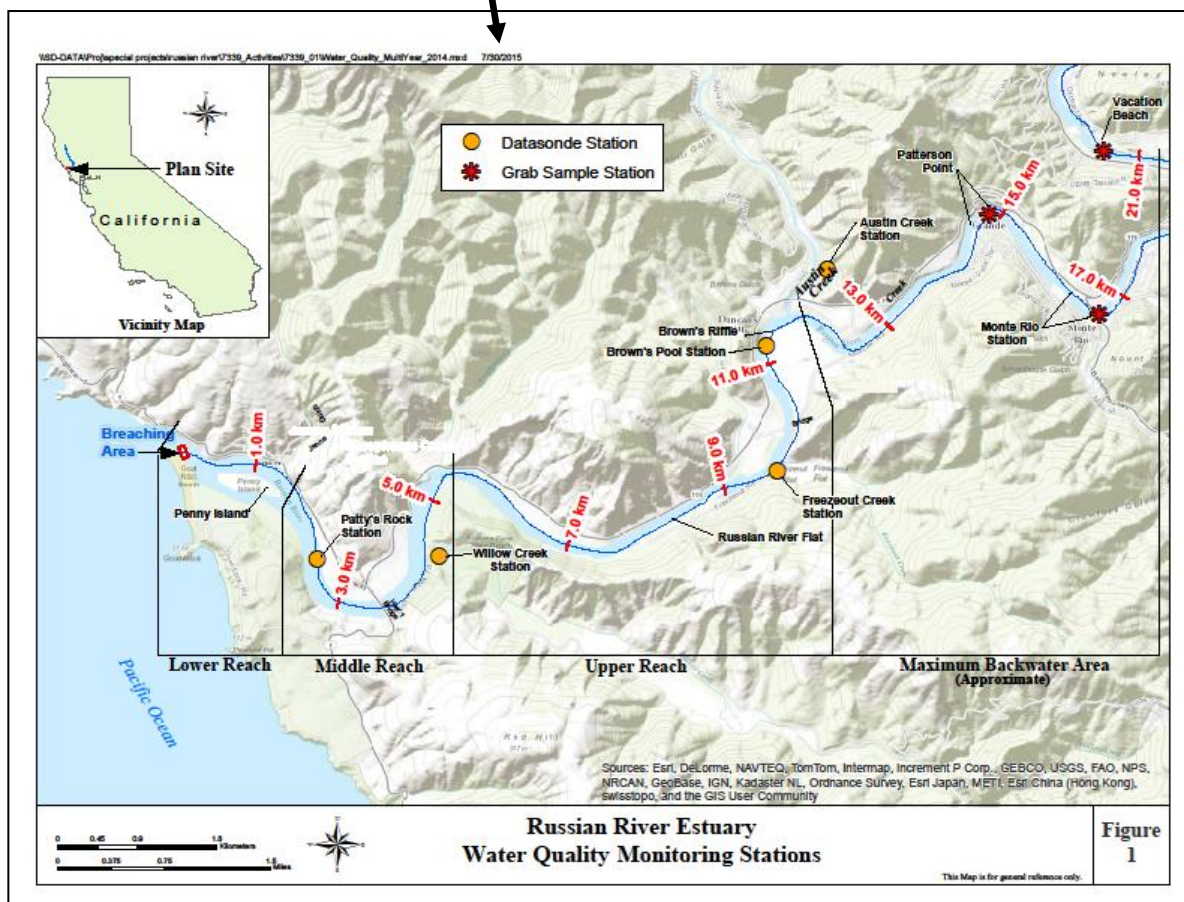


Sonoma Water

# State Water Resources Control Board Temporary Urgency Change Order (5/19/2023) Russian River Water Quality Report October 6 – October 12, 2023



2022 Russian River Water Quality Monitoring Stations Overview



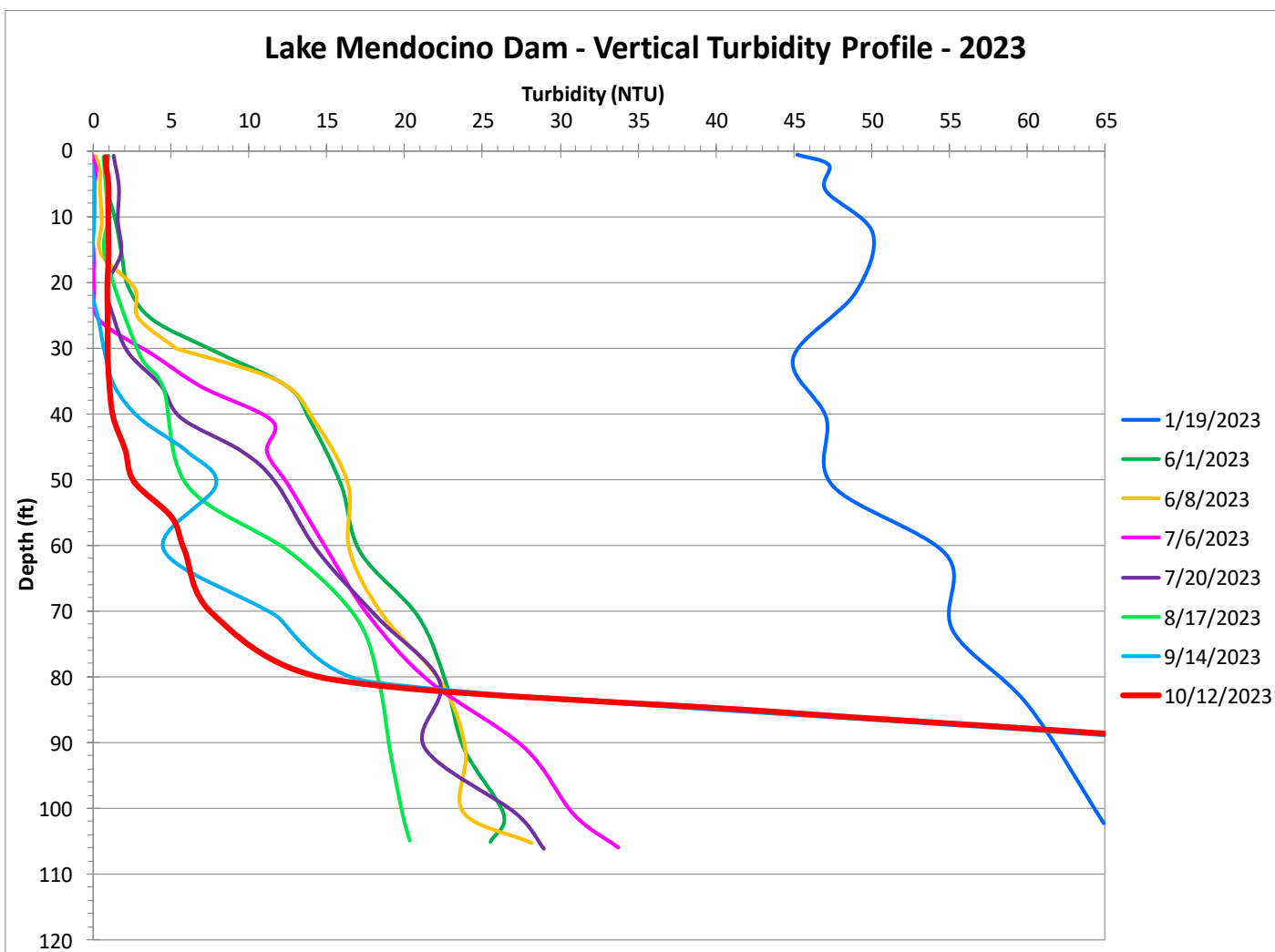
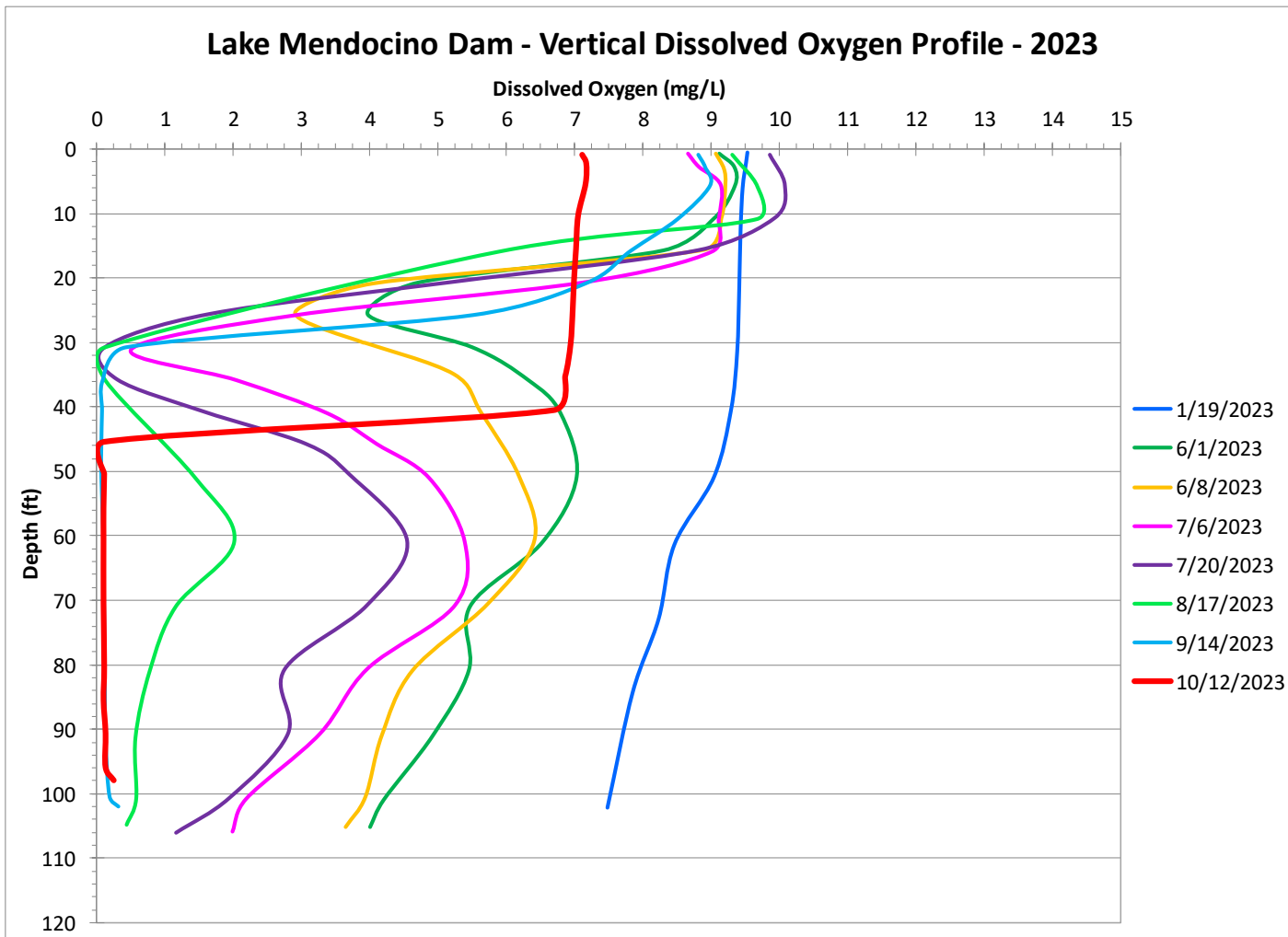
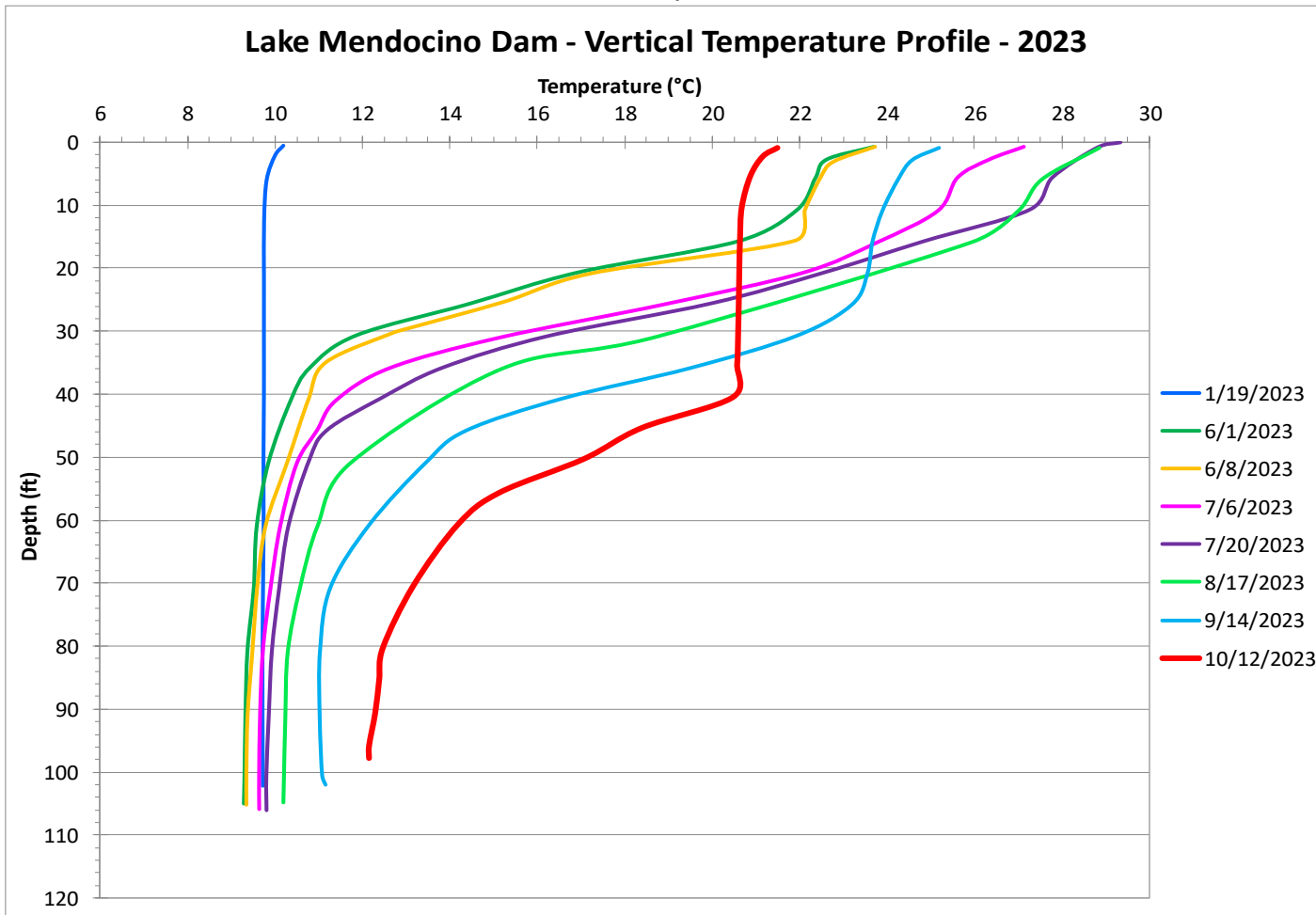
Russian River Estuary Water Quality Monitoring Stations

Figure 1

This Map is for general reference only.

# Lake Mendocino Water Quality Vertical Profiles (January 19 – October 12, 2023)

Provisional Data Subject to Revision

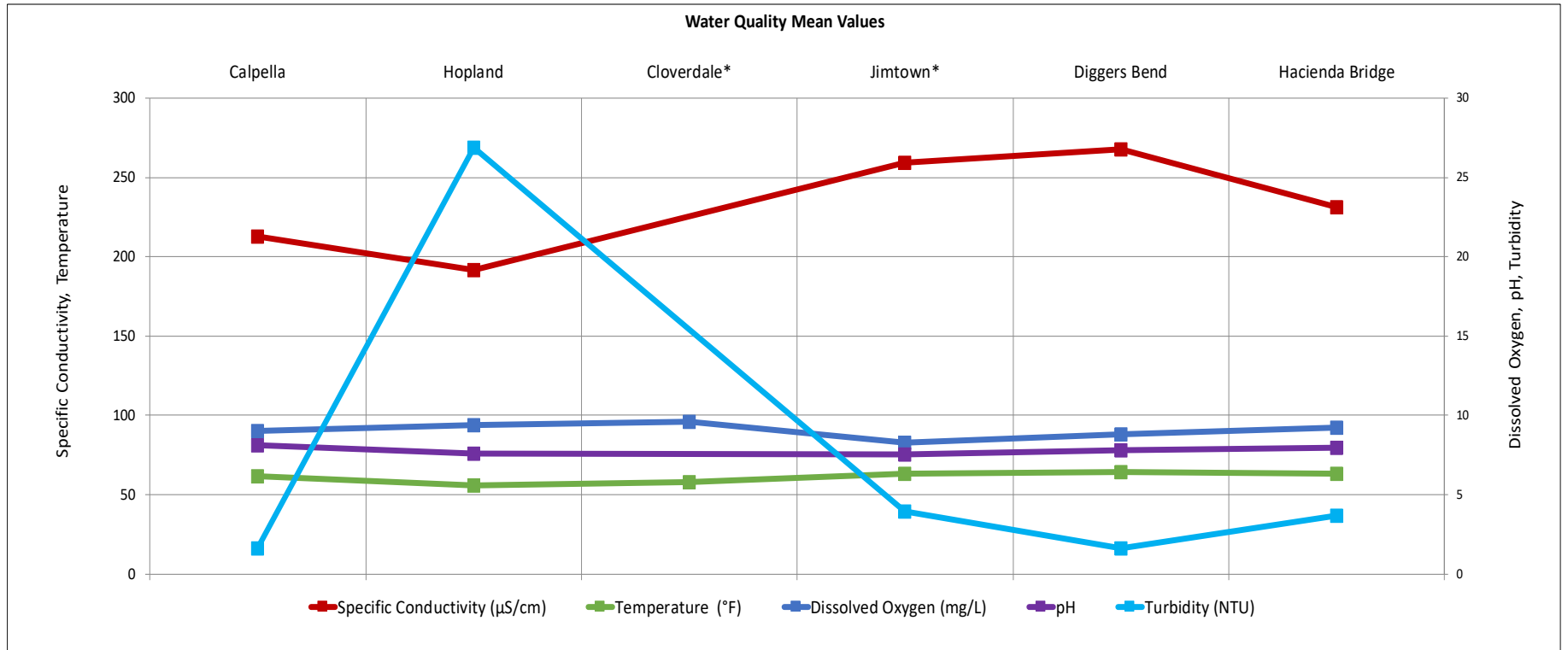


## Russian River Water Quality Sondes (October 6 - October 12, 2023)

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	57.2	54.1	54.9	59.2	59.9		58.8	
	Max	64.9	57.9	61.5	67.6	69.1		66.9	
	Mean	61.6	55.9	57.8	63.2	64.6		63.1	
Specific Conductivity (µS/cm)	Min	208.0	190.0		252.0	260.0		230.0	
	Max	222.0	193.0		266.0	273.0		236.0	
	Mean	212.7	191.4		259.3	267.9		231.1	
Dissolved Oxygen (mg/L)	Min	8.6	9.1	9.0	7.3	7.4		7.7	
	Max	10.0	9.8	10.5	9.9	11.3		10.6	
	Mean	9.0	9.4	9.6	8.3	8.8		9.2	
Dissolved Oxygen (% Saturation)	Min	89.2	86.5	89.4	75.6	77.1		80.2	
	Max	100.3	95.9	106.2	107.1	125.5		114.1	
	Mean	92.4	89.7	94.0	86.3	93.1		96.0	
pH	Min	8.1	7.4		7.4	7.5		7.7	
	Max	8.3	7.7		7.8	8.4		8.3	
	Mean	8.1	7.6		7.5	7.8		8.0	
Turbidity (NTU)	Min	0.9	21.6		3.0	0.9		2.8	
	Max	2.5	31.8		5.2	2.4		5.0	
	Mean	1.6	26.9		3.9	1.6		3.7	

\*Station operated seasonally

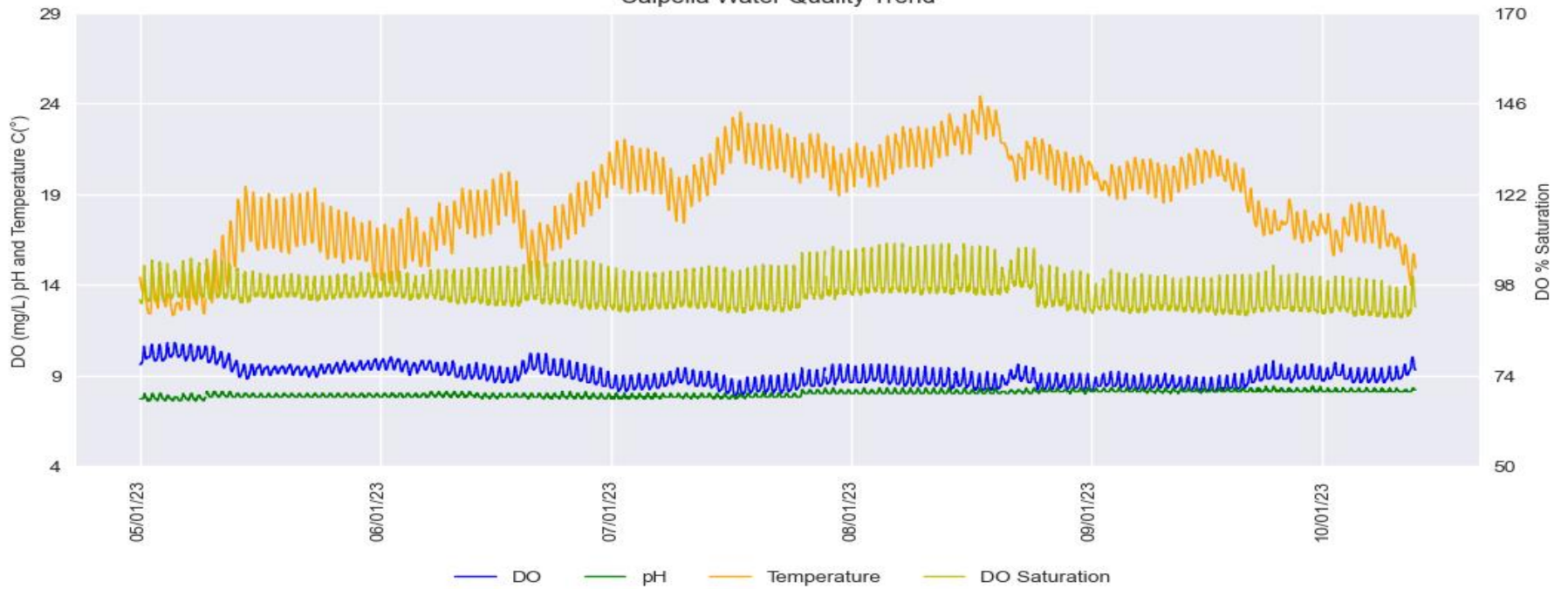


## Russian River Water Quality April 1 – October 12, 2023

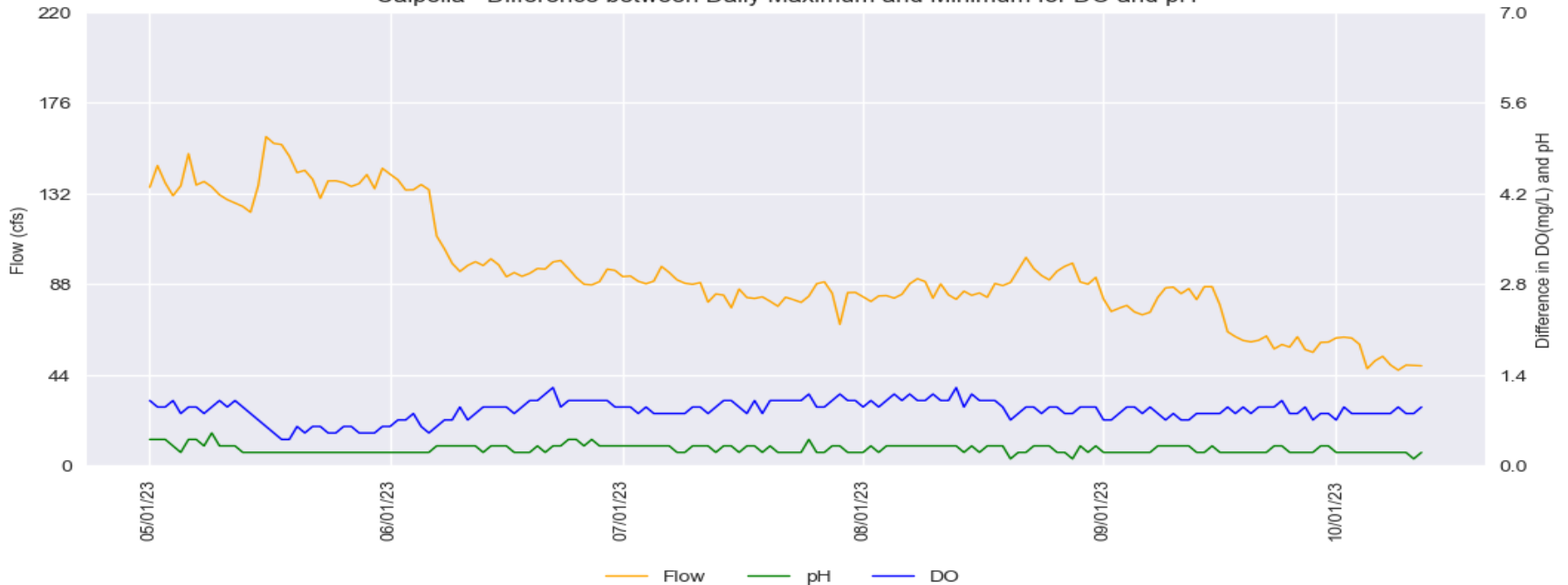
Provisional Data Subject to Revision

### Calpella (East Fork Russian River)

#### Calpella Water Quality Trend



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

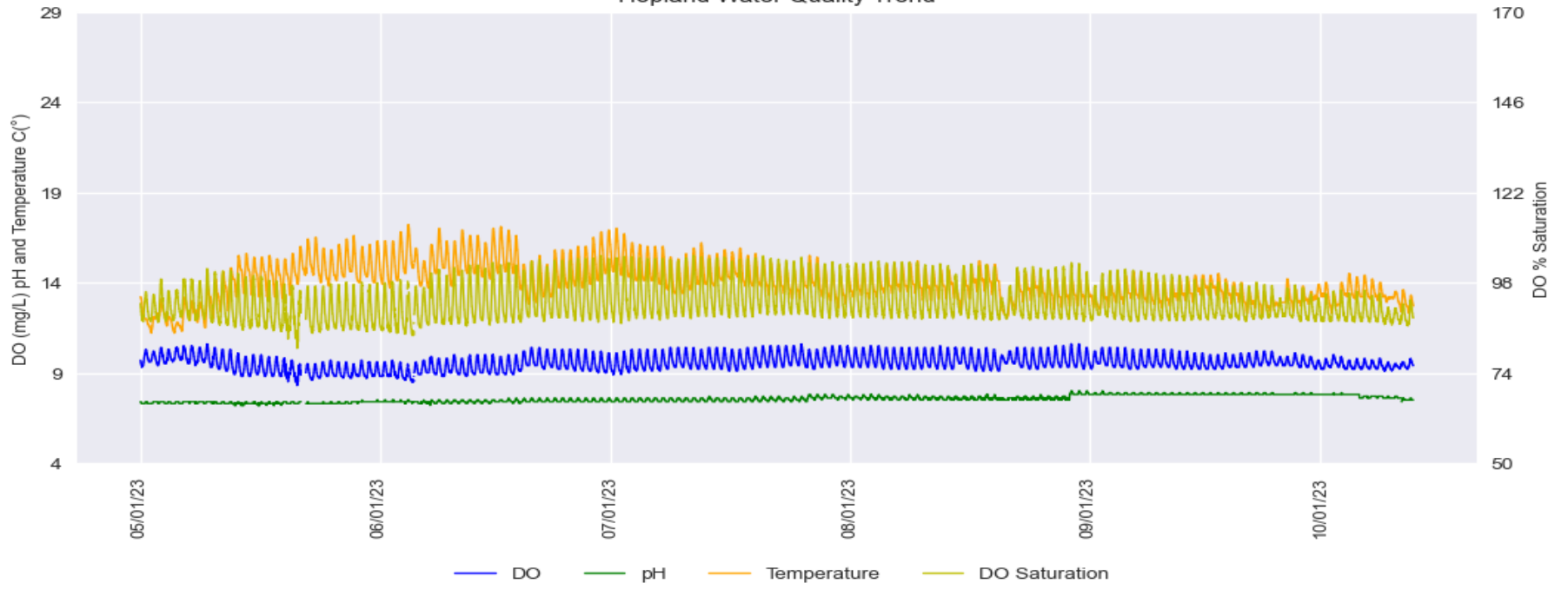


Russian River Water Quality April 1 – October 12, 2023

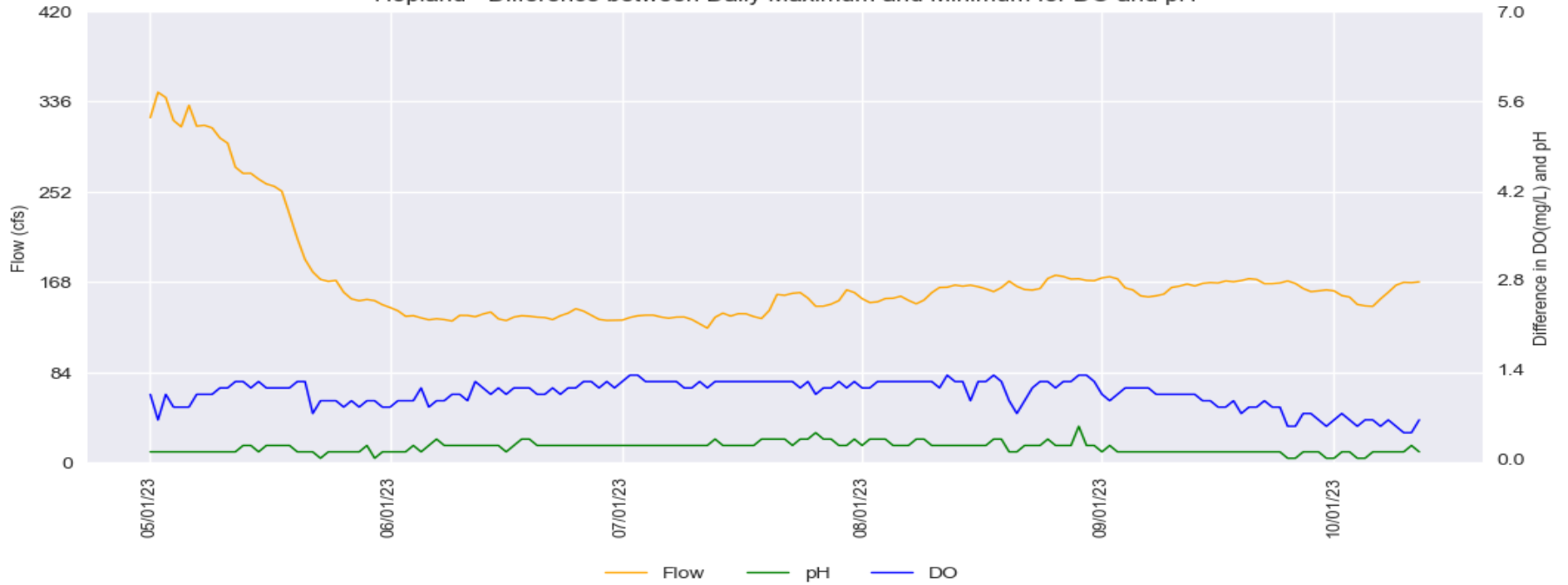
Provisional Data Subject to Revision

**Hopland**

Hopland Water Quality Trend

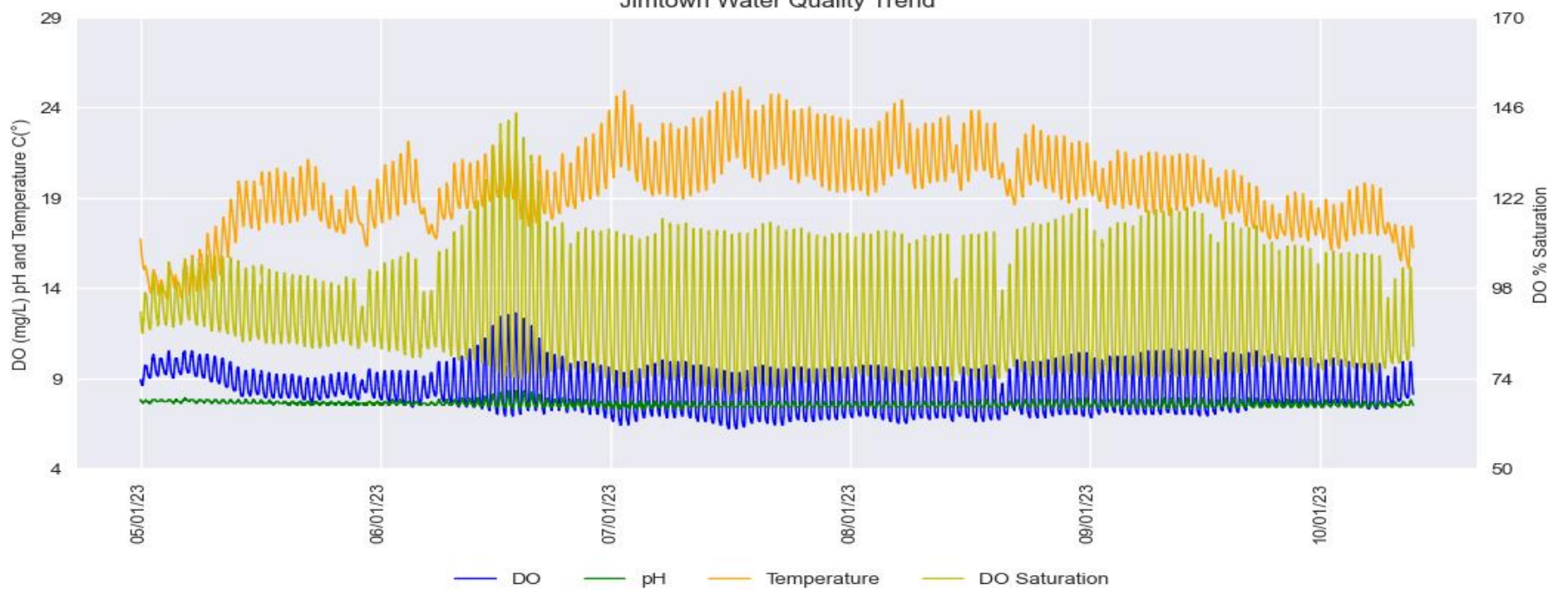


Hopland - Difference between Daily Maximum and Minimum for DO and pH

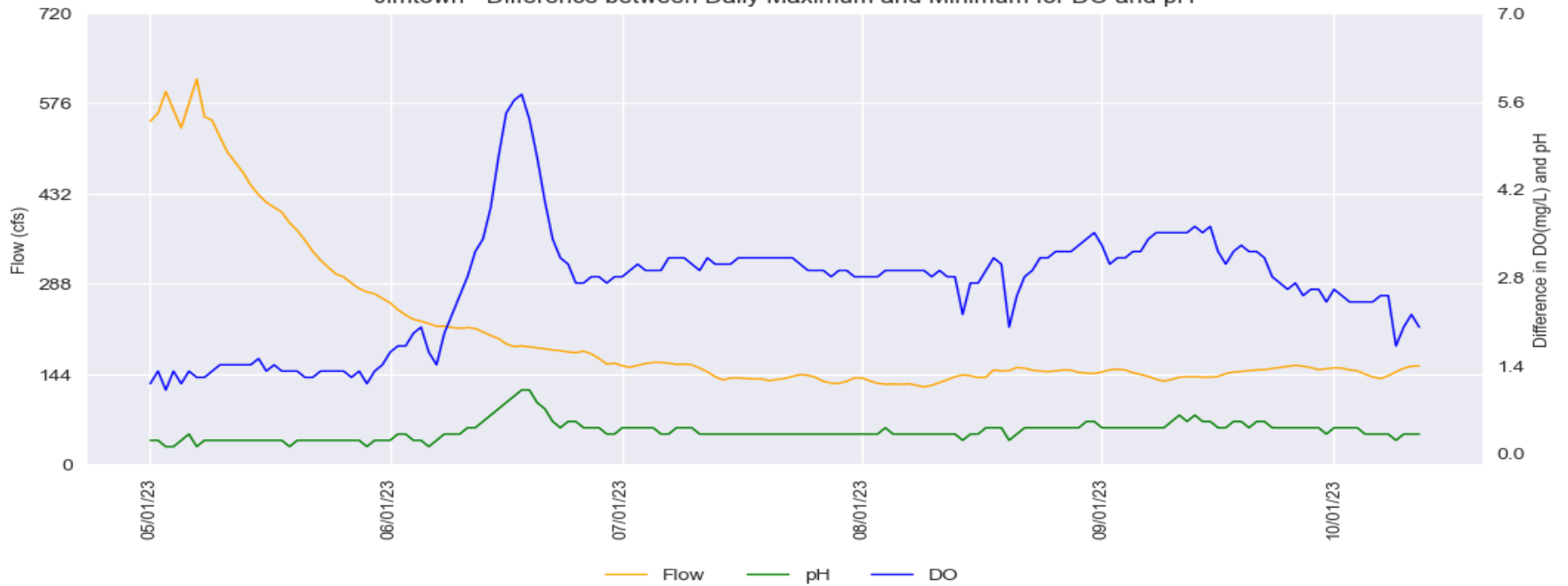


**Jimtown**

Jimtown Water Quality Trend



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

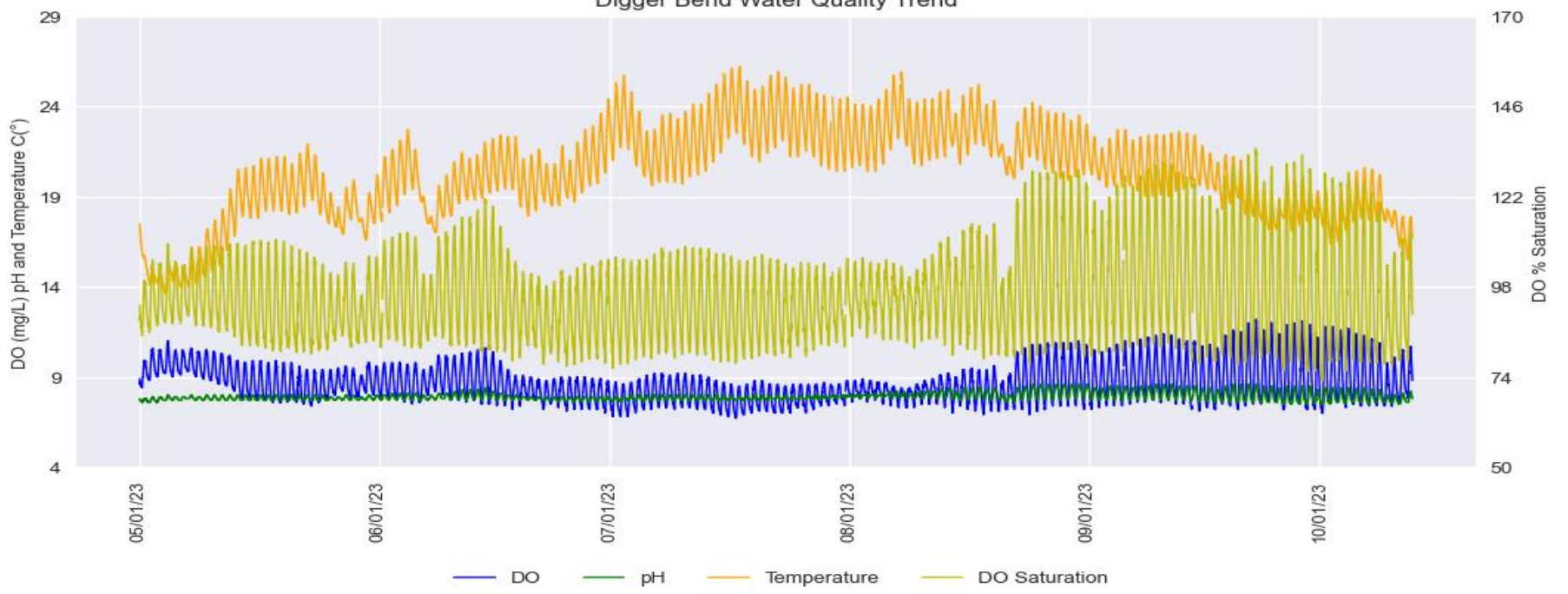


# Russian River Water Quality April 1 – October 12, 2023

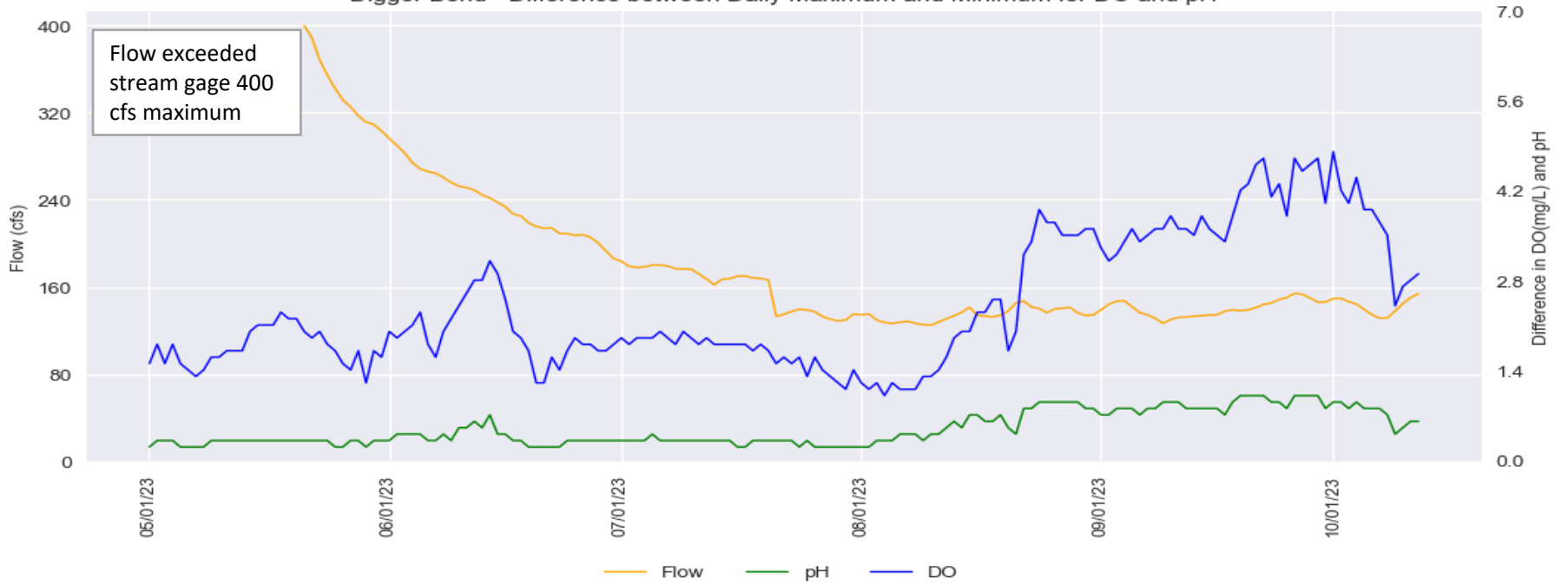
Provisional Data Subject to Revision

## Diggers Bend

### Digger Bend Water Quality Trend

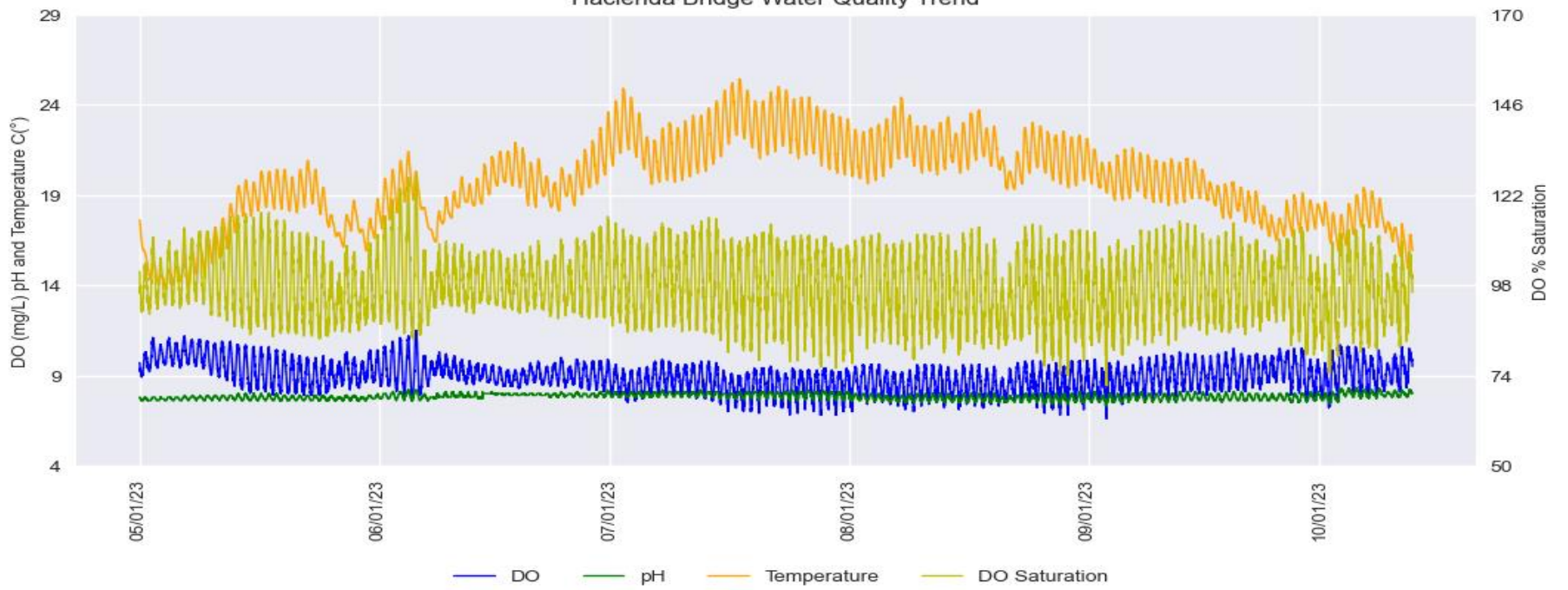


### Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

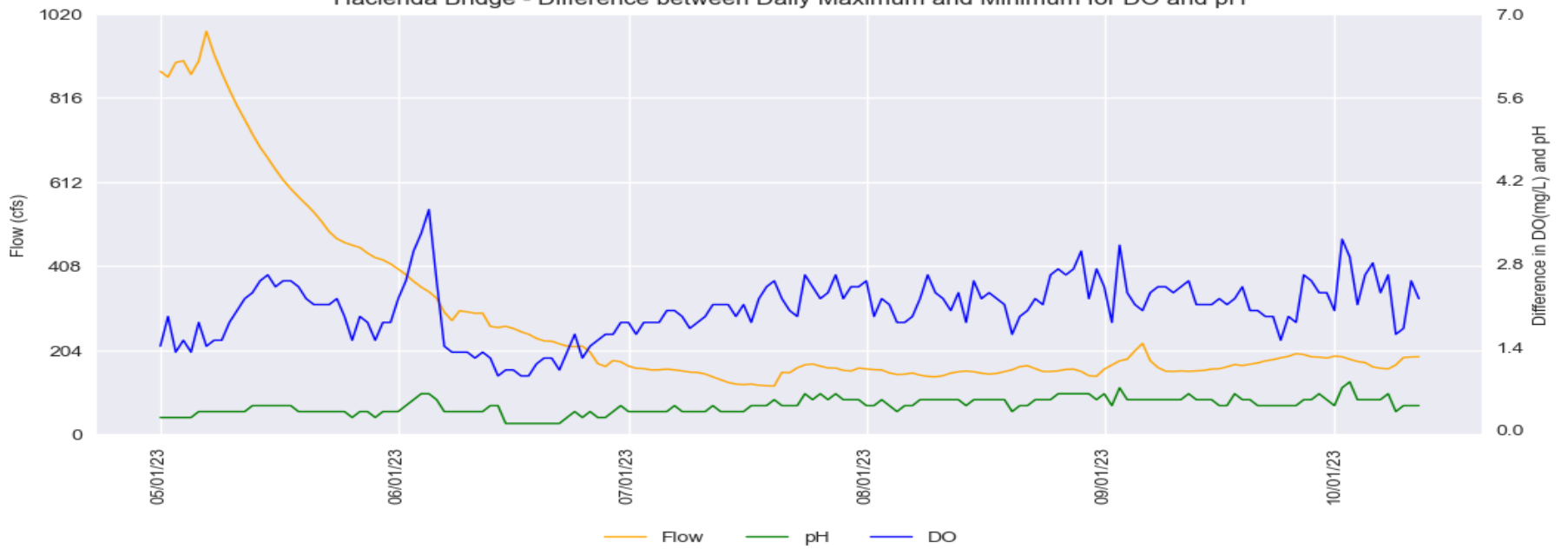


## Hacienda Bridge

### Hacienda Bridge Water Quality Trend



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



**Russian River Water Quality Grab Samples (August 29 - October 3, 2023)  
Provisional Data Subject to Revision**

Parameter***	CDPH Guidance*	Date	Patterson Point	Monte Rio	Vacation Beach
Total Coliforms MPN/100 mL	10,000	8/29/2023	2359**	1842**	1789**
		9/5/2023	1986.3	1986.3	1732.9
		9/12/2023	1732.9	1413.6	1046.2
		9/19/2023	1354**	1785**	1374**
		9/21/2023	1553.1	1986.3	1413.6
		9/26/2023	2419.6	2419.6	1732.9
		9/28/2023	1046.2	816.4	1986.3
		10/3/2023	648.8	613.1	1119.9
E. Coli MPN/100 mL	235	8/29/2023	52.9	20.1	20.3
		9/5/2023	51.2	47.3	13.5
		9/12/2023	47.1	29.9	14.5
		9/19/2023	21.3	86	26.5
		9/21/2023	44.8	72.3	29.2
		9/26/2023	118.7	66.3	35.5
		9/28/2023	29.2	27.5	19.9
		10/3/2023	24.6	18.7	20.1
Enterococcus MPN/100 mL****	61	8/29/2023	64.5	18.7	9.8
		9/5/2023	29.8	23.3	8.4
		9/12/2023	25.9	18.5	20.3
		9/19/2023	24.9	58.3	14.6
		9/21/2023	26.6	59.1	19.9
		9/26/2023	83.3	66.3	27.5
		9/28/2023	17.1	17.3	13.5
		10/3/2023	21.3	228.2	41.4

\*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 (August 1 - September 26, 2023)**  
**Provisional Data Subject to Revision**

Parameter		MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach
	Temperature	-	°C	8/1/2023	22.9	23.1	23.1
				8/8/2023	23.4	23.6	23.7
				8/15/2023	21.5	22.4	22.5
				8/22/2023	21.6	21.7	21.3
				8/29/2023	21.8	21.6	21.7
				9/5/2023	21.3	21.1	21.0
				9/12/2023	20.6	20.7	20.6
				9/19/2023	19.9	19.6	19.4
				9/21/2023	18.8	18.5	18.4
				9/26/2023	18.5	18.4	18.0
Nutrients	Ammonia as N	0.1	mg/L	8/1/2023	ND	ND	ND
				8/8/2023	ND	ND	ND
				8/15/2023	ND	ND	ND
				8/22/2023	ND	ND	ND
				8/29/2023	ND	ND	ND
				9/5/2023	ND	ND	ND
				9/12/2023	ND	ND	ND
				9/19/2023	ND	0.1	ND
				9/21/2023	ND	ND	ND
	9/26/2023	ND	0.2	ND			
	Nitrate as N	0.04	mg/L	8/1/2023	ND	ND	ND
				8/8/2023	ND	ND	ND
				8/15/2023	ND	ND	ND
				8/22/2023	ND	ND	ND
				8/29/2023	ND	ND	ND
				9/5/2023	ND	ND	ND
				9/12/2023	ND	ND	ND
				9/19/2023	0.086	ND	ND
9/21/2023				ND	ND	0.1	
9/26/2023	ND	ND	ND				
Nutrients	Nitrite as N	0.05	mg/L	8/1/2023	ND	ND	ND
				8/8/2023	ND	ND	ND
				8/15/2023	ND	ND	ND
				8/22/2023	ND	ND	ND
				8/29/2023	ND	ND	ND
				9/5/2023	ND	ND	ND
				9/12/2023	ND	ND	ND
				9/19/2023	ND	ND	ND
				9/21/2023	ND	ND	ND
				9/26/2023	ND	ND	ND
	Total Organic Nitrogen as N	0.1	mg/L	8/1/2023	3.9	ND	ND
				8/8/2023	ND	ND	ND
				8/15/2023	ND	ND	ND
				8/22/2023	ND	ND	ND
				8/29/2023	ND	ND	ND
				9/5/2023	ND	ND	ND
				9/12/2023	ND	ND	ND
				9/19/2023	ND	ND	ND
				9/21/2023	ND	ND	ND
	9/26/2023	ND	ND	ND			
	Total Kjeldahl Nitrogen	0.2	mg/L	8/1/2023	3.9	ND	ND
				8/8/2023	ND	ND	ND
				8/15/2023	ND	ND	ND
				8/22/2023	ND	ND	ND
				8/29/2023	ND	ND	ND
				9/5/2023	ND	ND	ND
				9/12/2023	ND	ND	ND
				9/19/2023	ND	ND	ND
				9/21/2023	ND	ND	ND
				9/26/2023	ND	ND	ND
	Total Phosphorus	0.02	mg/L	8/1/2023	0.045	0.041	0.039
				8/8/2023	0.036	0.034	0.029
				8/15/2023	0.037	0.038	0.034
				8/22/2023	0.036	0.036	0.031
				8/29/2023	0.043	0.043	0.036
				9/5/2023	0.032	0.031	0.030
9/12/2023				0.026	0.032	0.021	
9/19/2023				ND	ND	ND	
9/21/2023				0.03	0.032	0.029	
9/26/2023				0.021	0.027	1.200	
Total Orthophosphate	0.03	mg/L	8/1/2023	ND	ND	ND	
			8/8/2023	ND	ND	ND	
			8/15/2023	0.092	ND	ND	
			8/22/2023	ND	ND	ND	
			8/29/2023	ND	ND	ND	
			9/5/2023	ND	ND	ND	
			9/12/2023	ND	ND	ND	
			9/19/2023	ND	0.0	ND	
			9/21/2023	ND	ND	ND	
9/26/2023	ND	ND	ND				

**Russian River Water Quality Grab Samples (August 1 - September 26, 2023)**  
**Provisional Data Subject to Revision**

Parameter		MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach
Chlorophyll	Chlorophyll A	0.003	mg/L	8/1/2023	0.0048	ND	0.0100
				8/8/2023	0.0051	0.0093	ND
				8/15/2023	ND	ND	0.0110
				8/22/2023	ND	ND	0.0059
				8/29/2023	0.0056	0.0075	ND
				9/5/2023	0.0088	ND	ND
				9/12/2023	ND	0.0051	ND
				9/19/2023	0.0059	0.0051	0.0035
				9/21/2023	ND	0.0035	ND
				9/26/2023	0.0043	0.0037	ND
Carbon	Total Organic Carbon	0.3	mg/L	8/1/2023	2.03	1.94	1.88
				8/8/2023	2.02	2.08	1.91
				8/15/2023	2.04	1.90	1.84
				8/22/2023	1.92	1.88	1.97
				8/29/2023	1.69	1.69	1.71
				9/5/2023	1.82	1.85	1.81
				9/12/2023	1.91	1.83	1.81
				9/19/2023	1.84	1.84	1.85
				9/21/2023	1.89	1.98	1.83
	9/26/2023	1.85	1.88	1.89			
	Dissolved Organic Carbon	0.2	mg/L	8/1/2023	1.89	1.90	1.84
				8/8/2023	2	1.93	1.87
				8/15/2023	1.86	1.86	1.87
				8/22/2023	1.98	1.88	2.09
				8/29/2023	1.79	1.81	1.85
				9/5/2023	1.78	1.79	1.75
				9/12/2023	1.84	1.80	1.75
				9/19/2023	1.84	1.84	1.85
9/21/2023				1.83	1.98	1.82	
9/26/2023	1.8	1.88	1.82				
Solids	Turbidity	0.1	NTU	8/1/2023	1.7	2.3	2.6
				8/8/2023	1.8	2.1	2.1
				8/15/2023	1.9	1.9	1.9
				8/22/2023	2.5	2.2	1.6
				8/29/2023	2.7	2.9	2.3
				9/5/2023	1.9	1.3	1.4
				9/12/2023	2.8	1.7	1.6
				9/19/2023	2.4	4.5	1.7
				9/21/2023	2.7	1.9	1.6
	9/26/2023	2.9	4.3	2.0			
	TDS	10	mg/L	8/1/2023	100	110	98
				8/8/2023	140	140	130
				8/15/2023	140	130	130
				8/22/2023	130	120	130
				8/29/2023	120	140	120
				9/5/2023	98	100	100
				9/12/2023	120	140	130
				9/19/2023	120	130	130
9/21/2023				120	120	110	
9/26/2023	90	110	120				