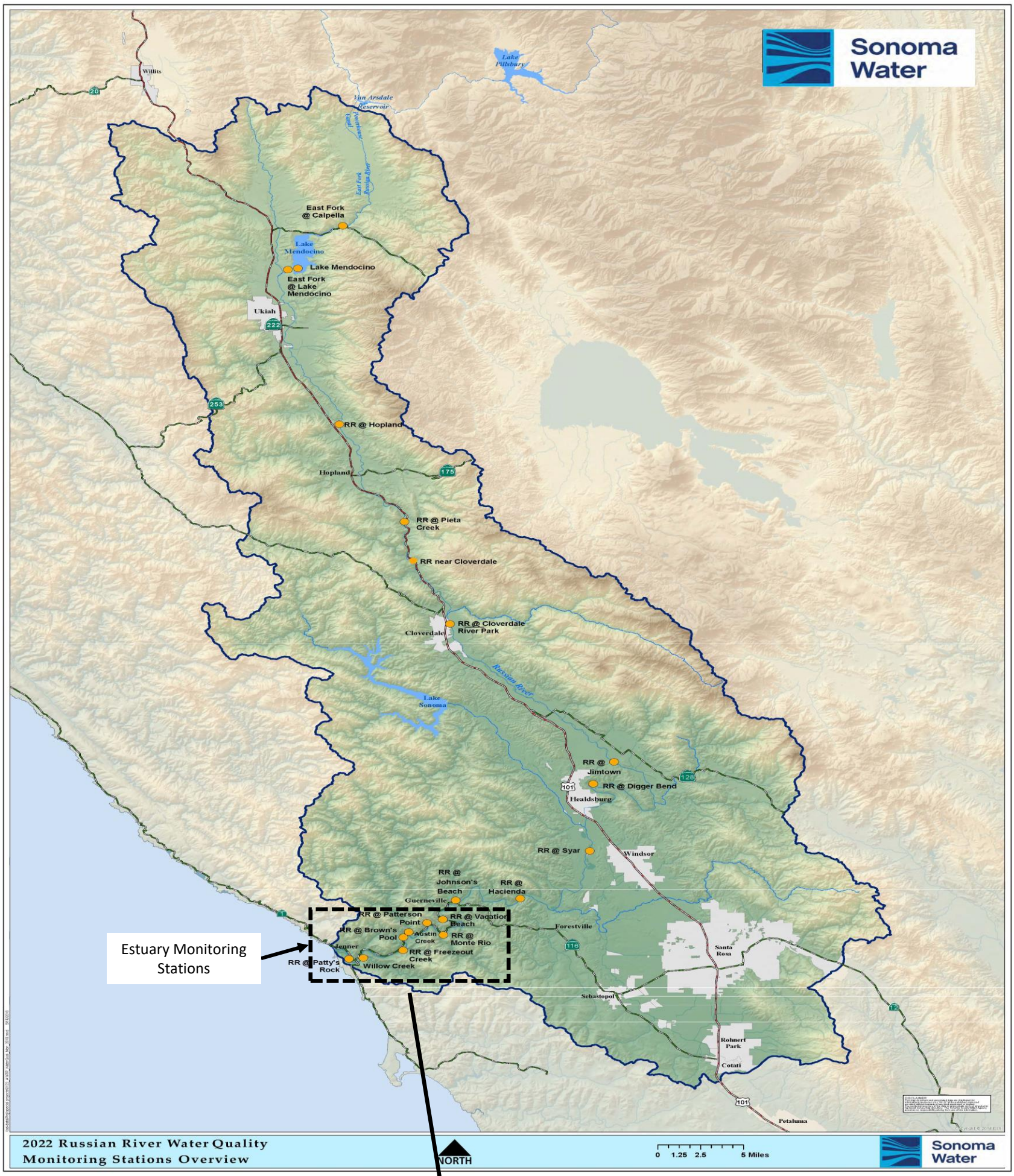
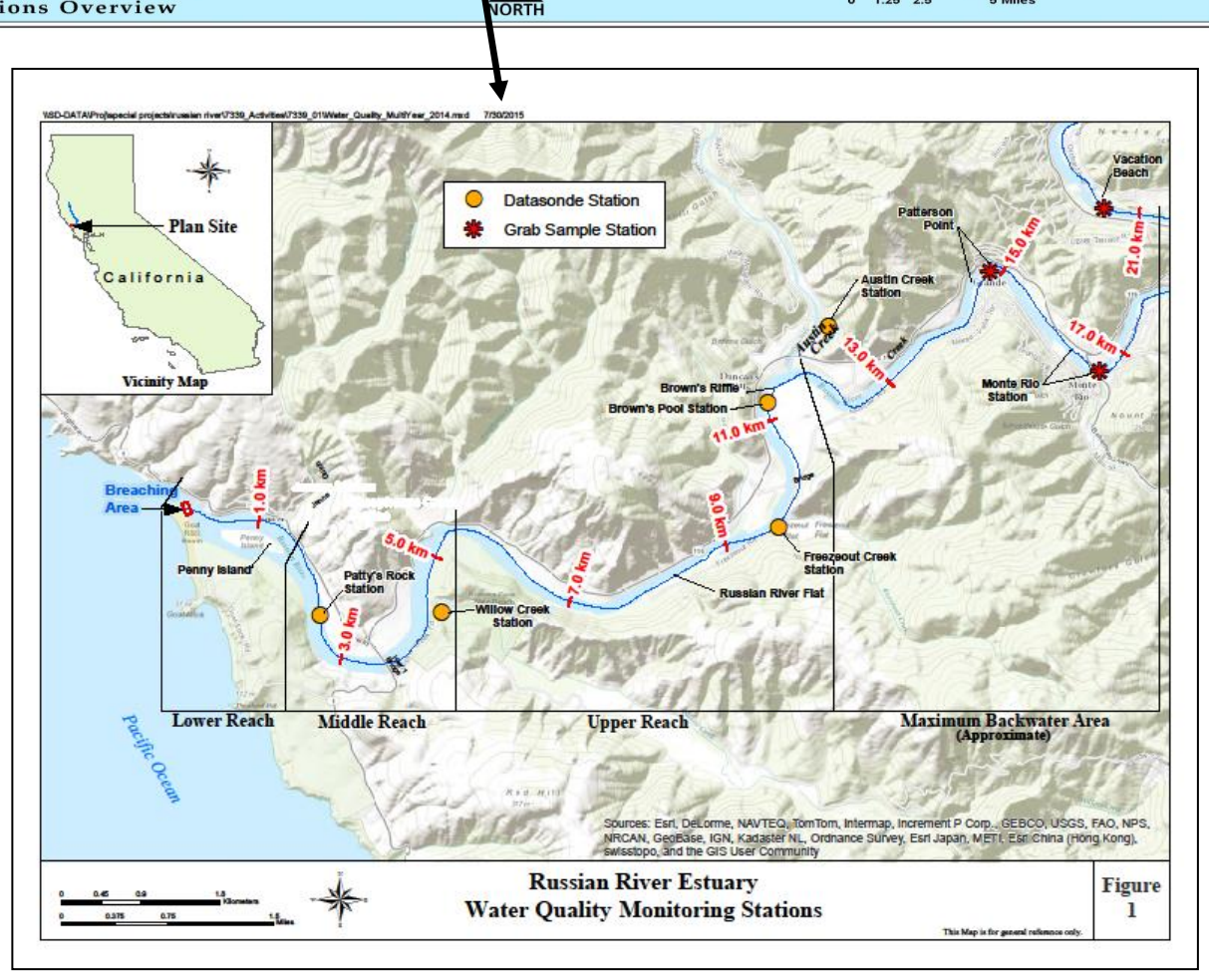
State Water Resources Control Board
Temporary Urgency Change Order (6/17/2022)

Russian River Water Quality Report

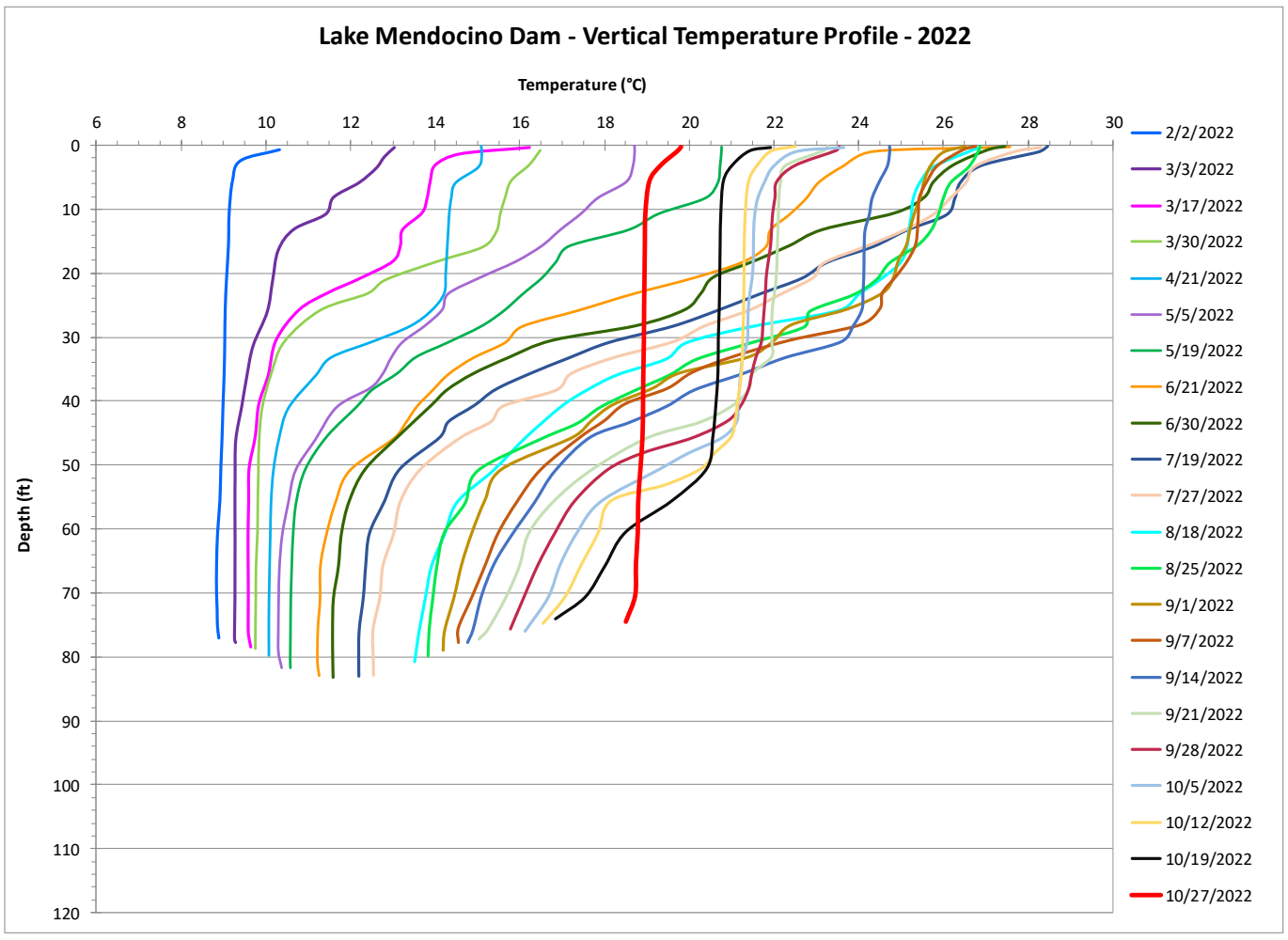
November 4 – November 10, 2022

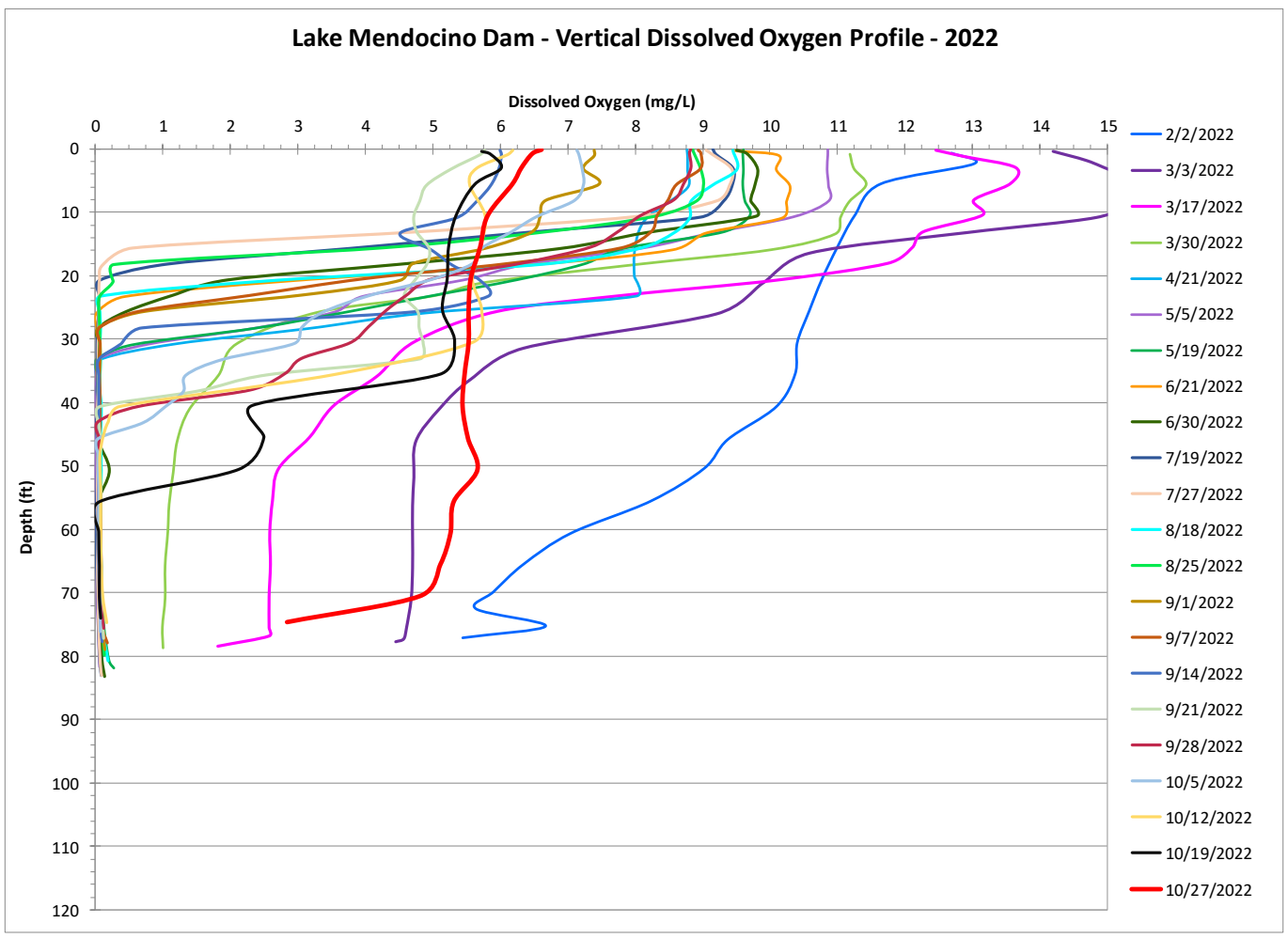


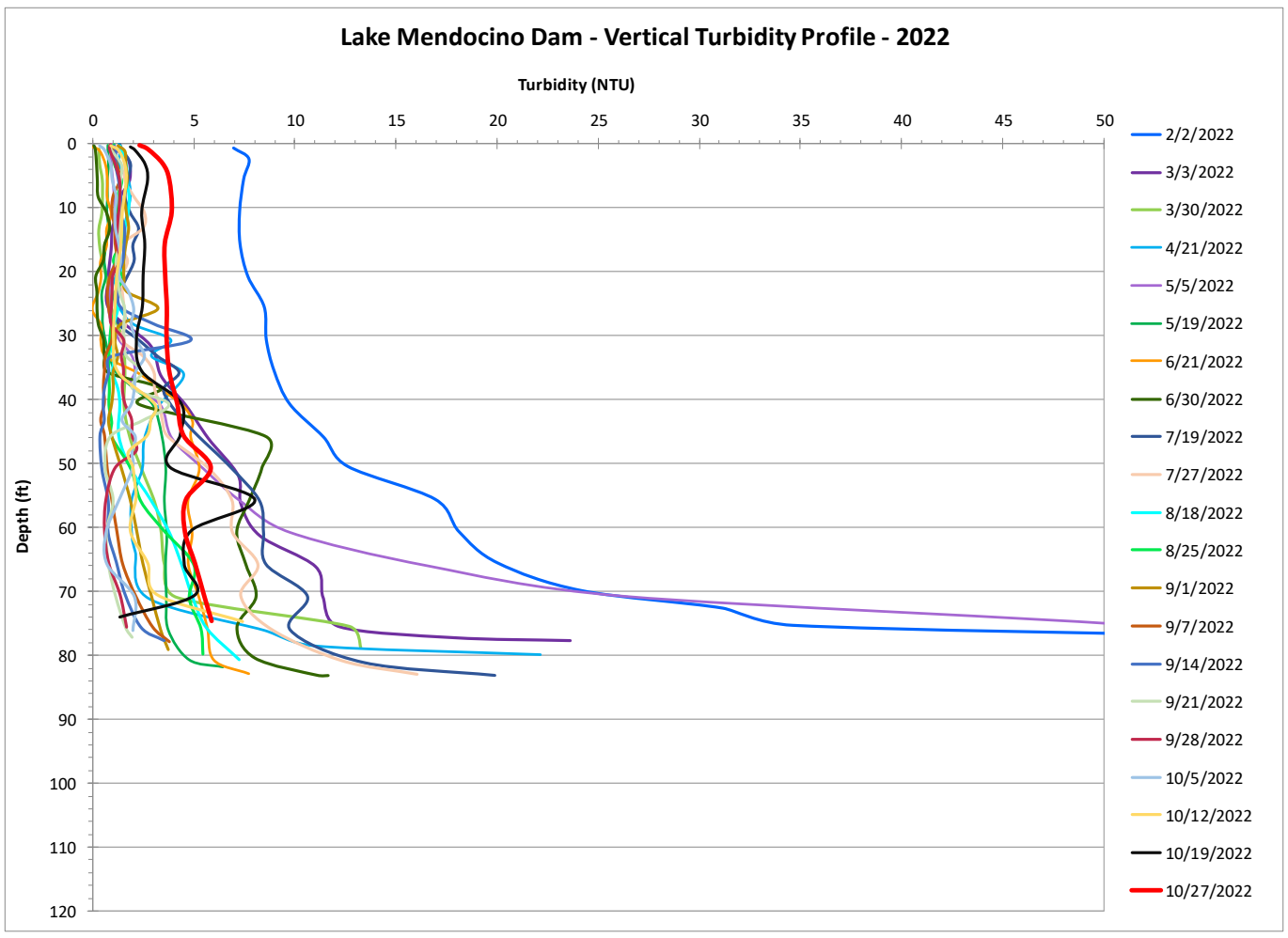


Lake Mendocino Water Quality Vertical Profiles (February 2 – October 27, 2022)

Provisional Data Subject to Revision





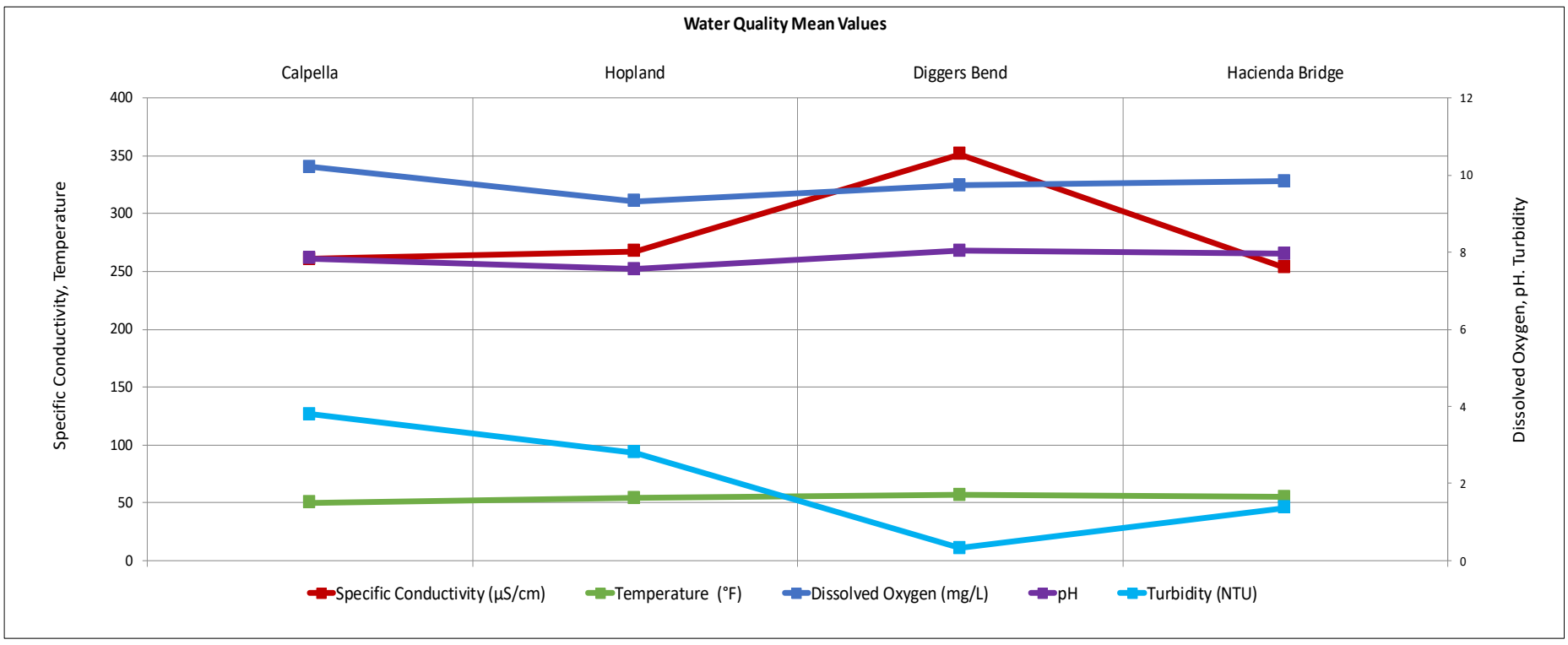


Russian River Water Quality Sondes (November 4, 2022 – November 10, 2022)

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	46.8	50.7		54.3	53.6		51.8	
	Max	52.5	57.6		62.1	59.4		57.4	
	Mean	50.1	54.1		59.0	56.8		54.9	
Specific Conductivity (µS/cm)	Min	245.0	205.0			339.0		244.0	
	Max	277.0	303.0			357.0		283.0	
	Mean	260.9	267.6			351.2		253.3	
Dissolved Oxygen (mg/L)	Min	9.5	8.2			8.0		8.9	
	Max	11.2	11.0			11.8		11.1	
	Mean	10.2	9.3			9.7		9.8	
Dissolved Oxygen (% Saturation)	Min	85.8	77.6			76.9		80.7	
	Max	99.9	103.0			114.7		104.6	
	Mean	90.5	87.0			94.1		92.7	
pH	Min	7.6	7.3			7.8		7.6	
	Max	8.0	7.8			8.2		8.2	
	Mean	7.8	7.6			8.0		7.9	
Turbidity (NTU)	Min	0.7	1.3			0.0		0.5	
	Max	23.1	7.3			1.0		3.5	
	Mean	3.8	2.8			0.3		1.4	

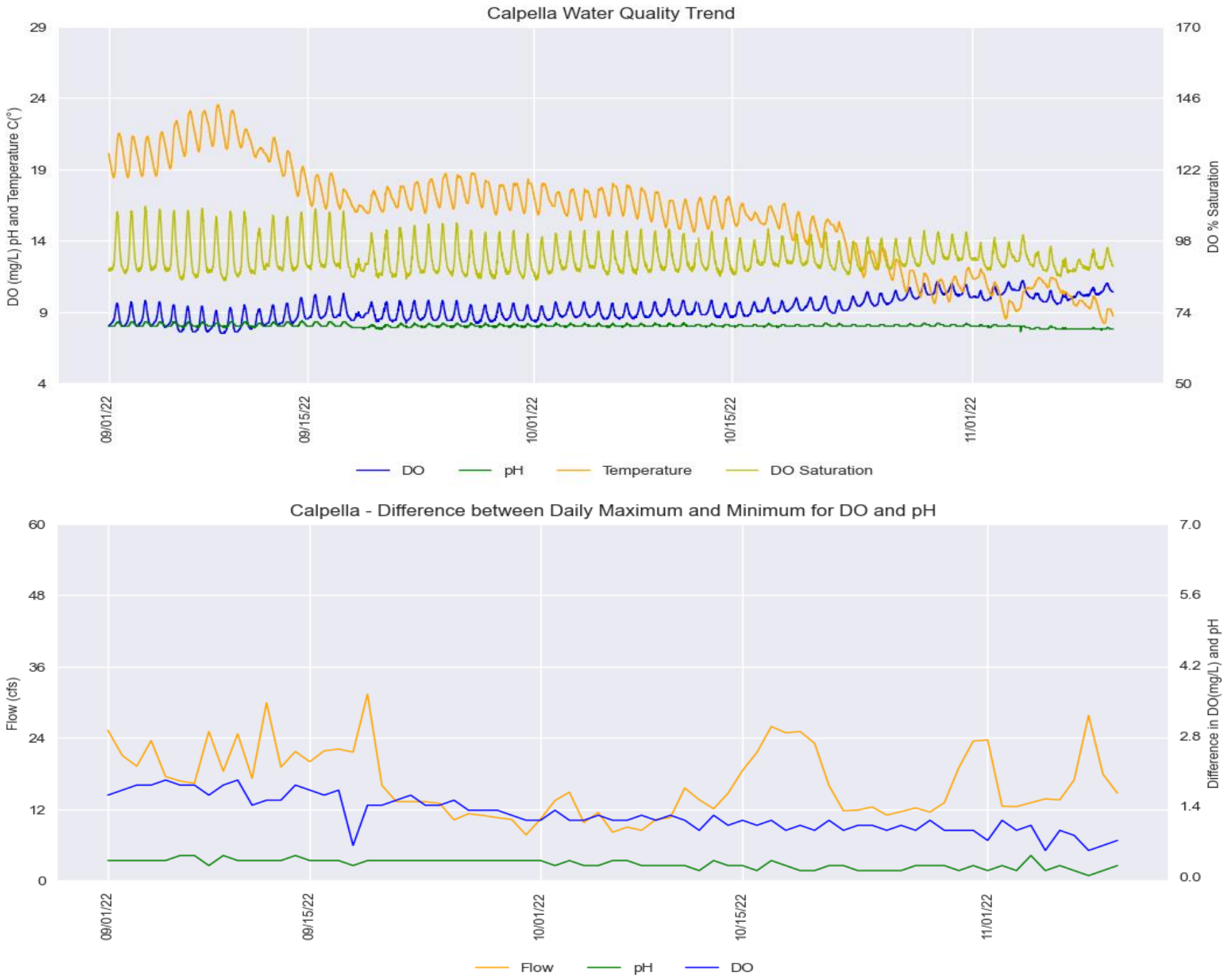
*Station operated seasonally



Russian River Water Quality September 1 – November 10, 2022

Provisional Data Subject to Revision

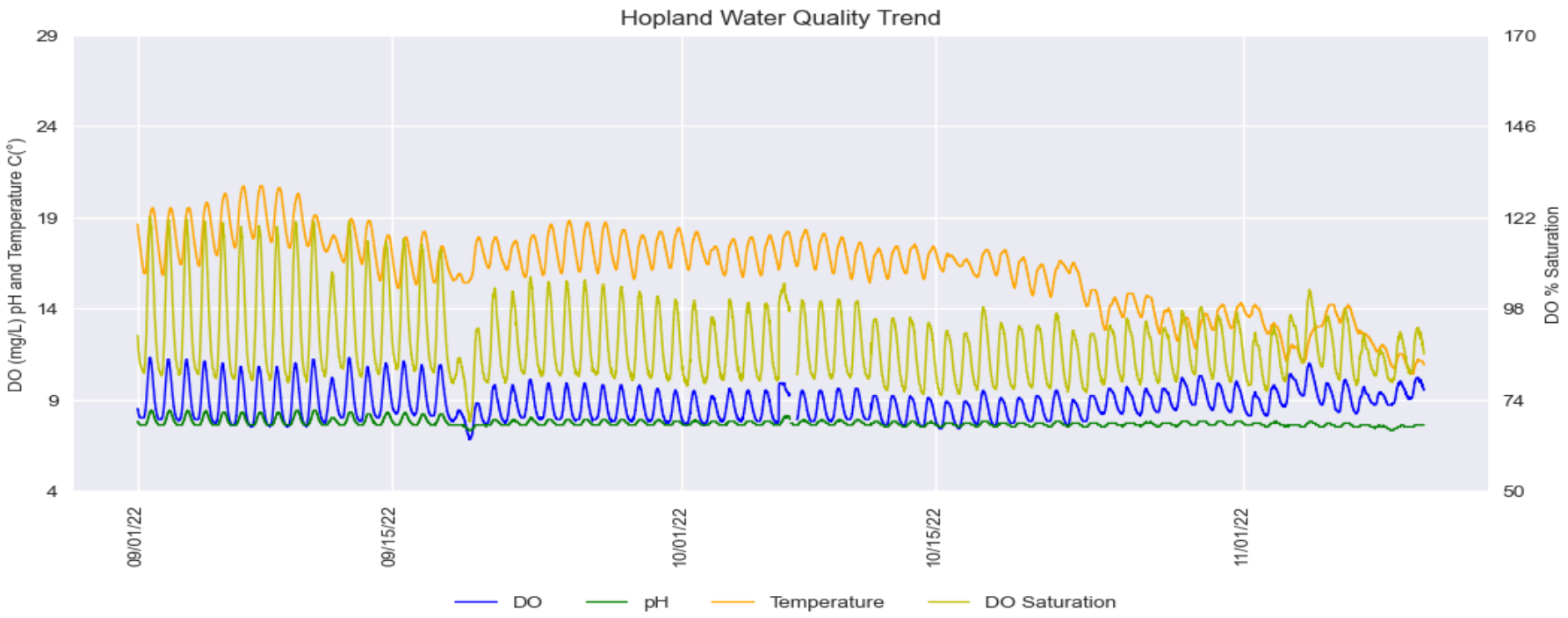
Calpella (East Fork Russian River)

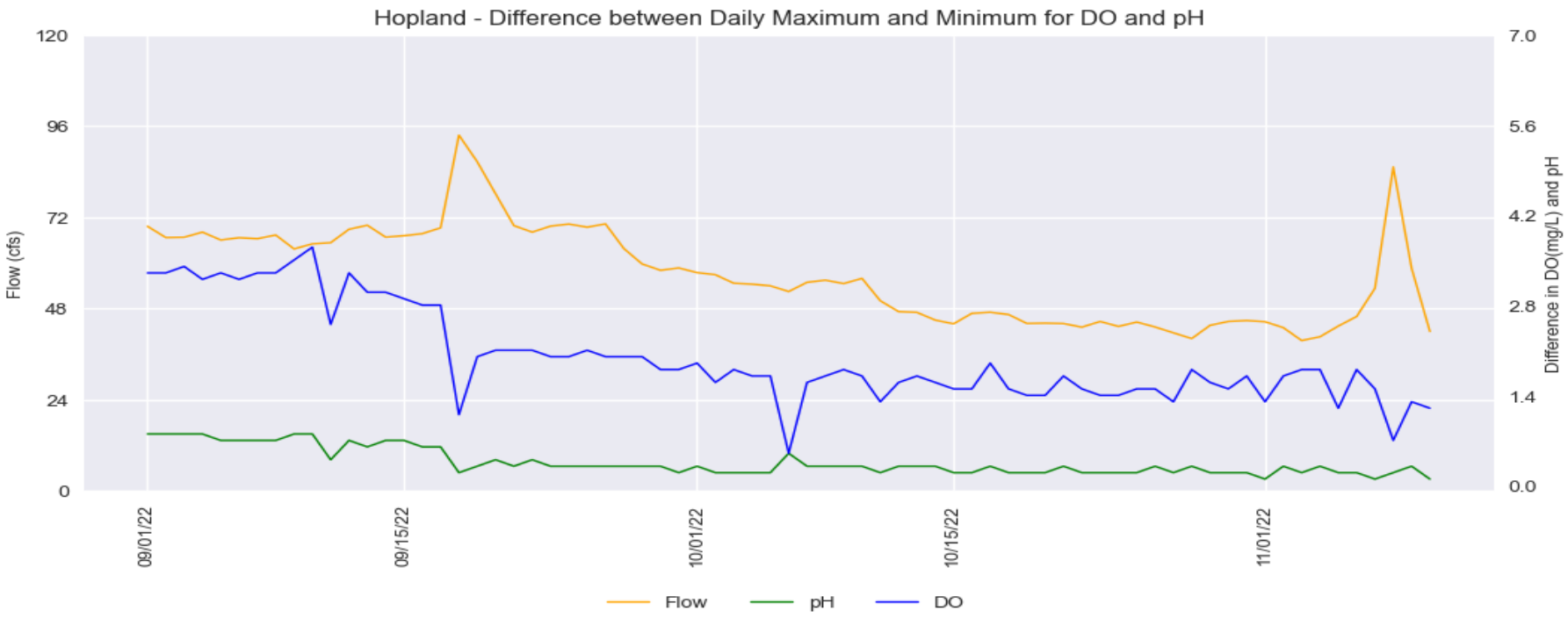


Russian River Water Quality September 1 – November 10, 2022

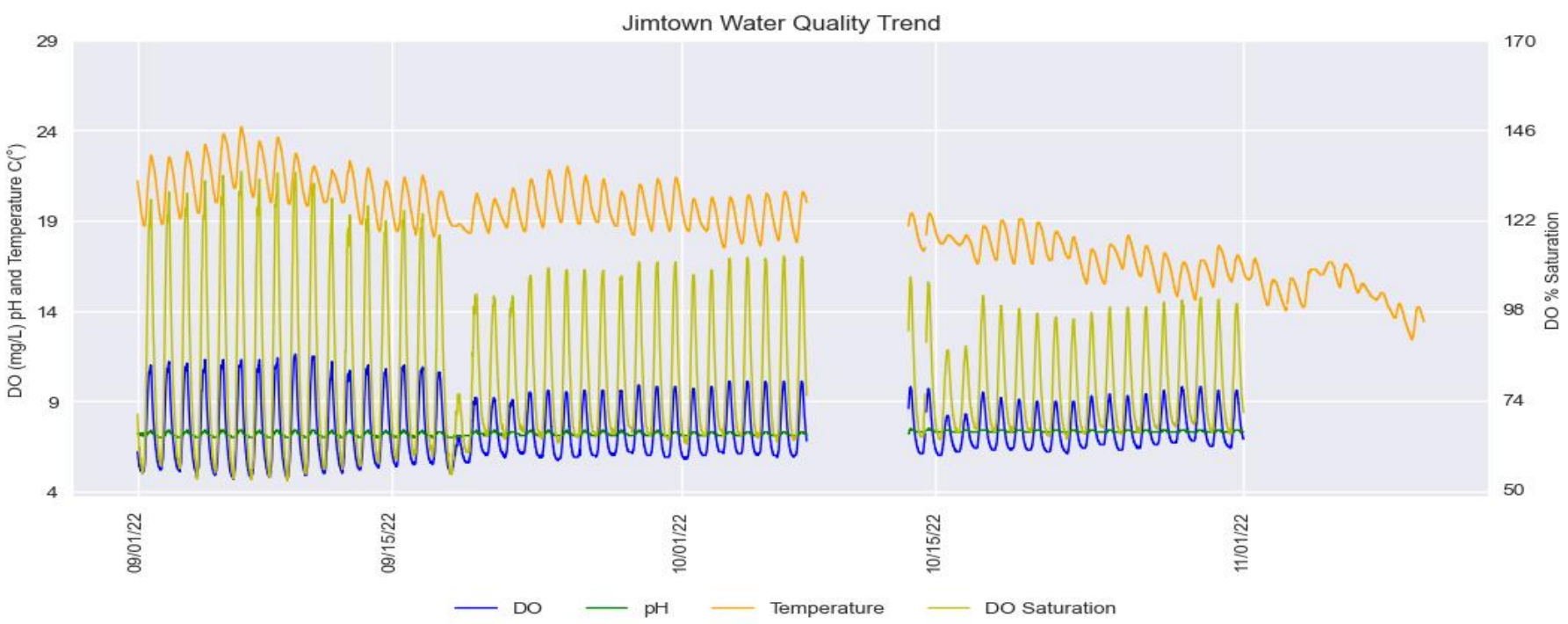
Provisional Data Subject to Revision

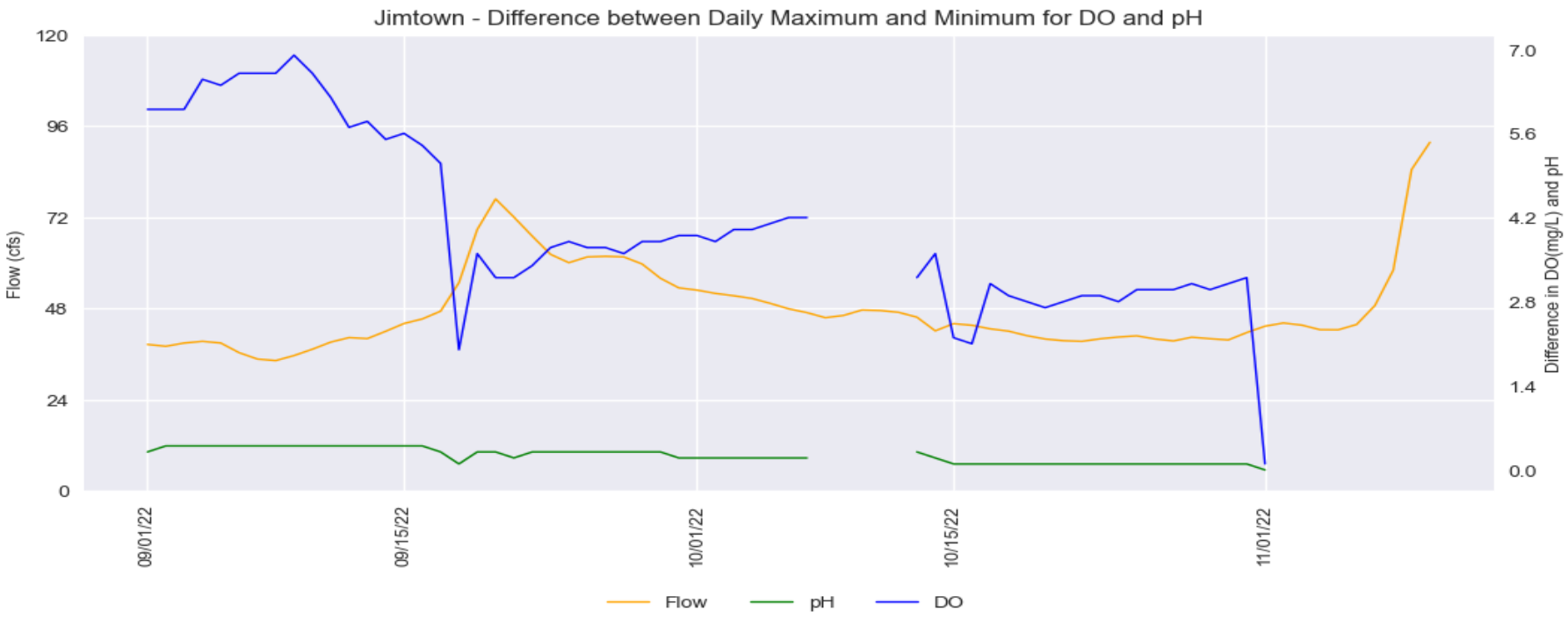
Hopland





Jimtown

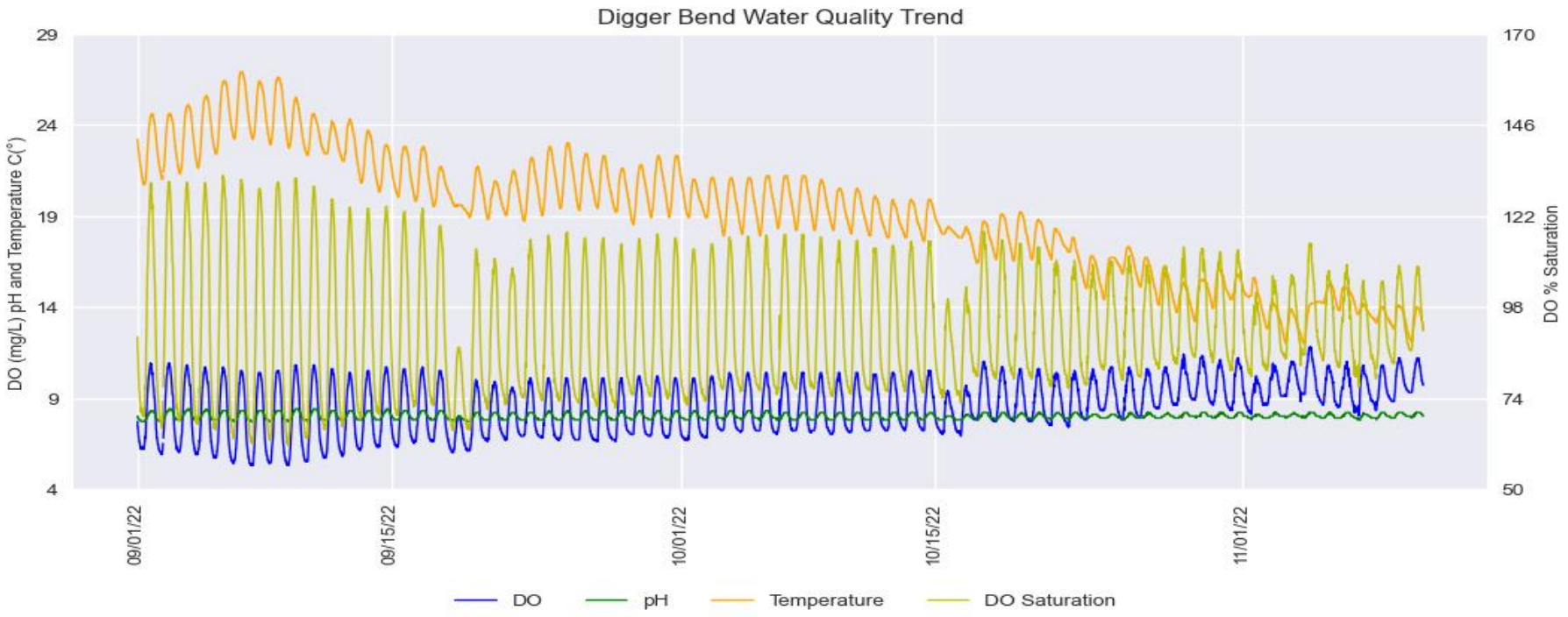


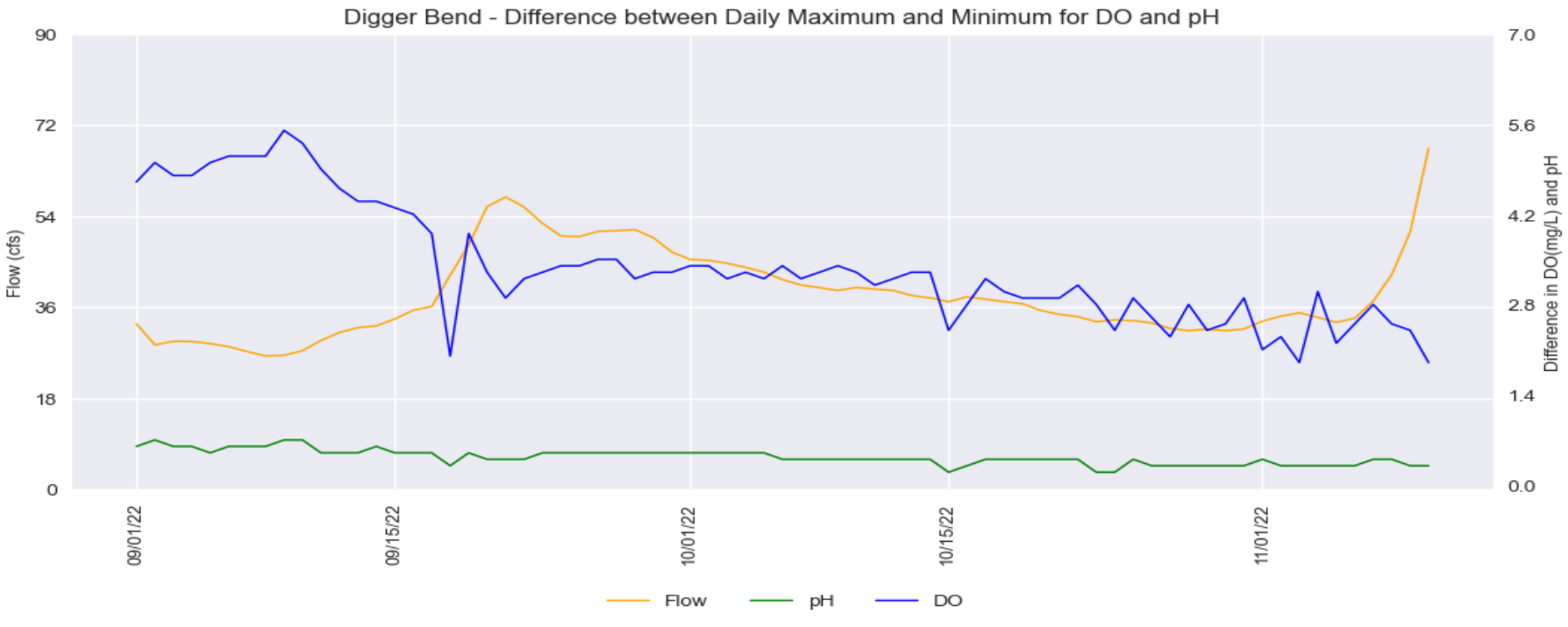


Russian River Water Quality September 1 – November 10, 2022

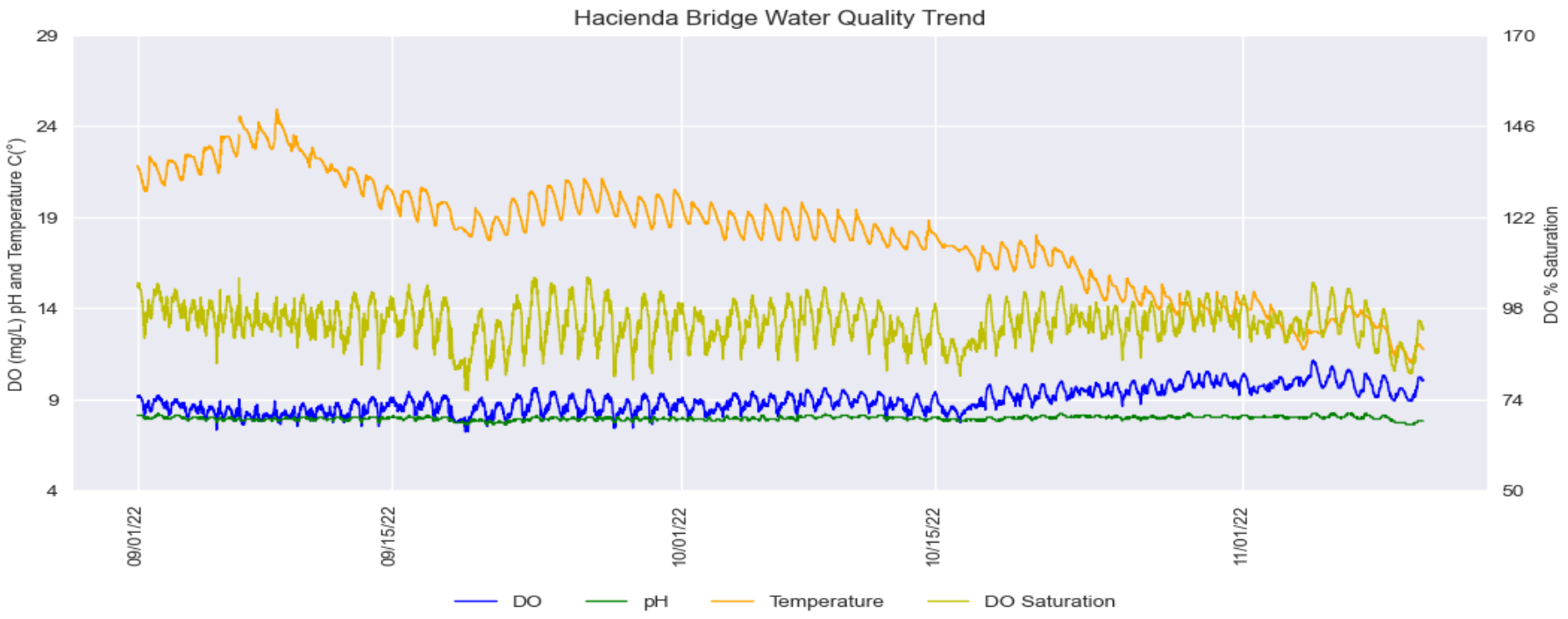
Provisional Data Subject to Revision

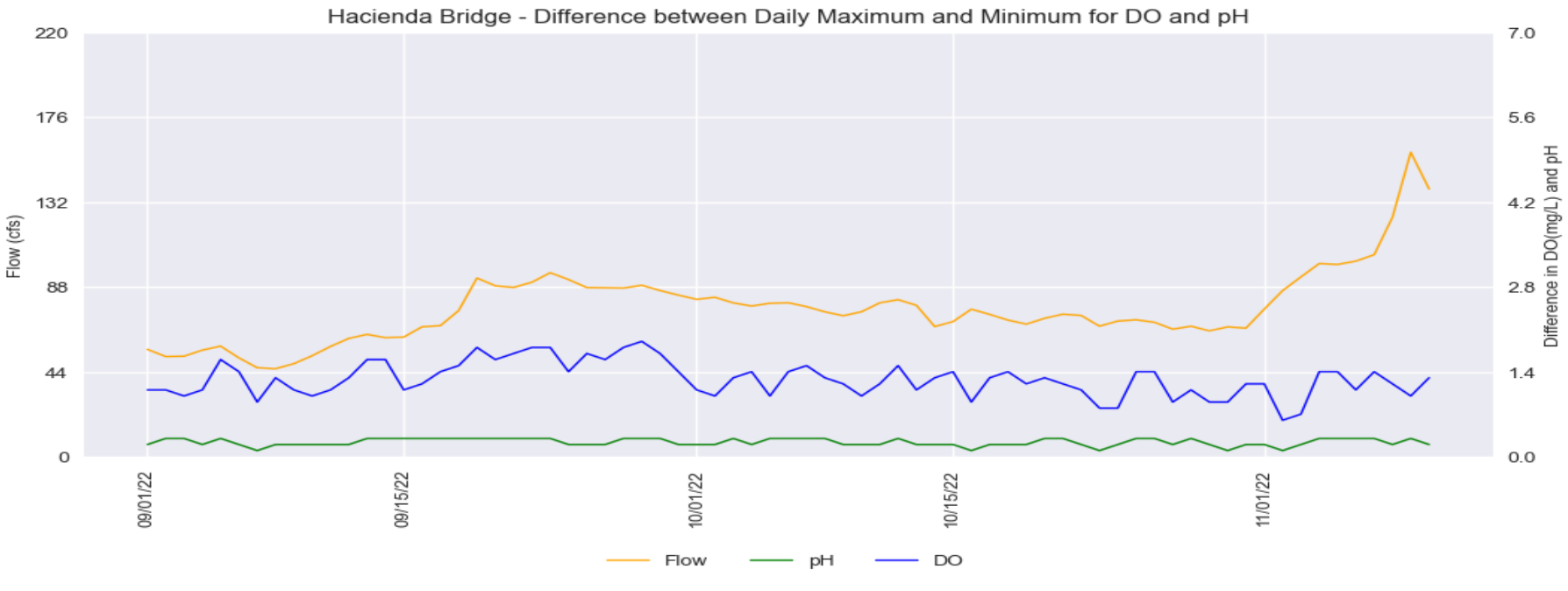
Diggers Bend





Hacienda Bridge

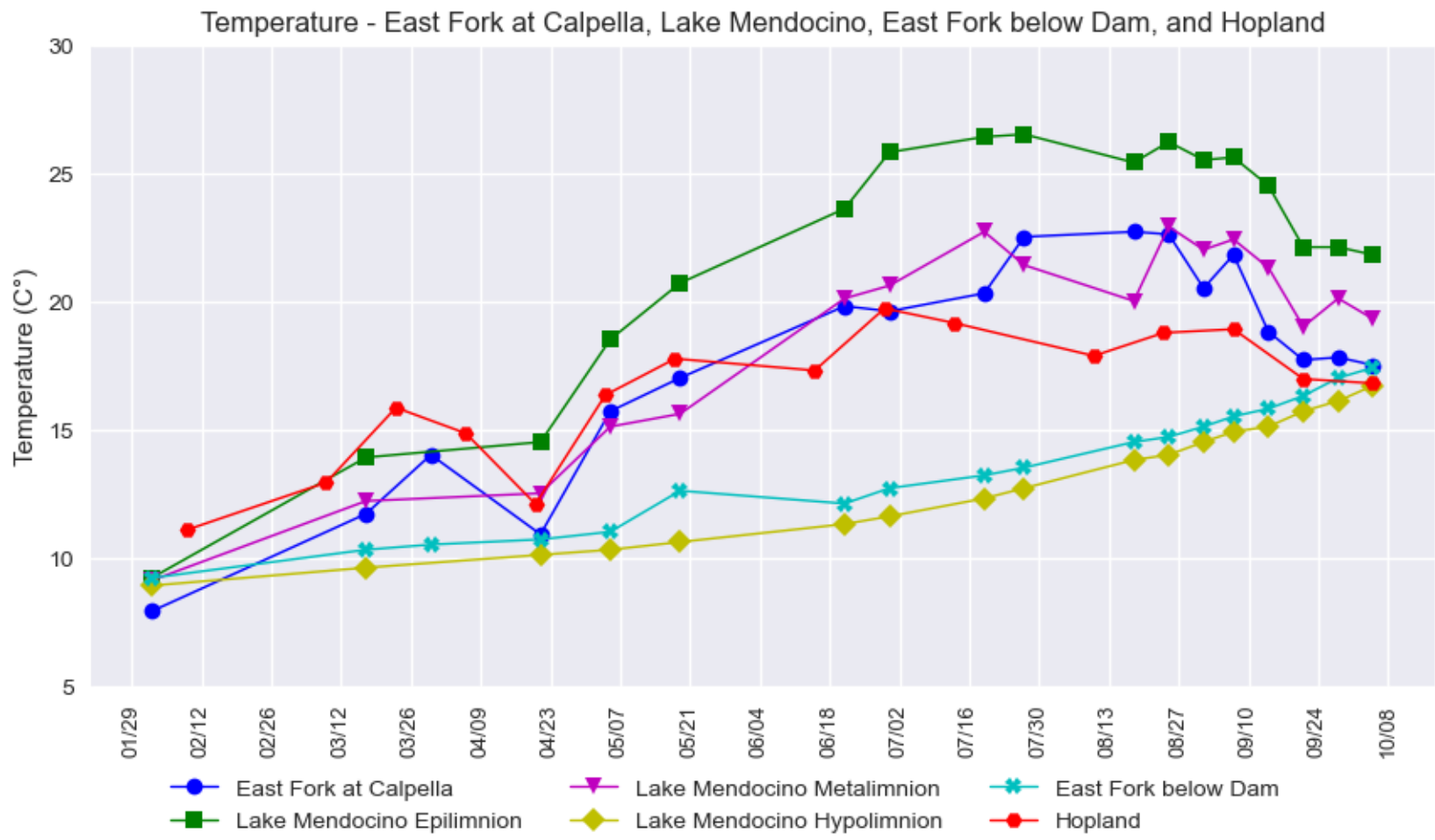


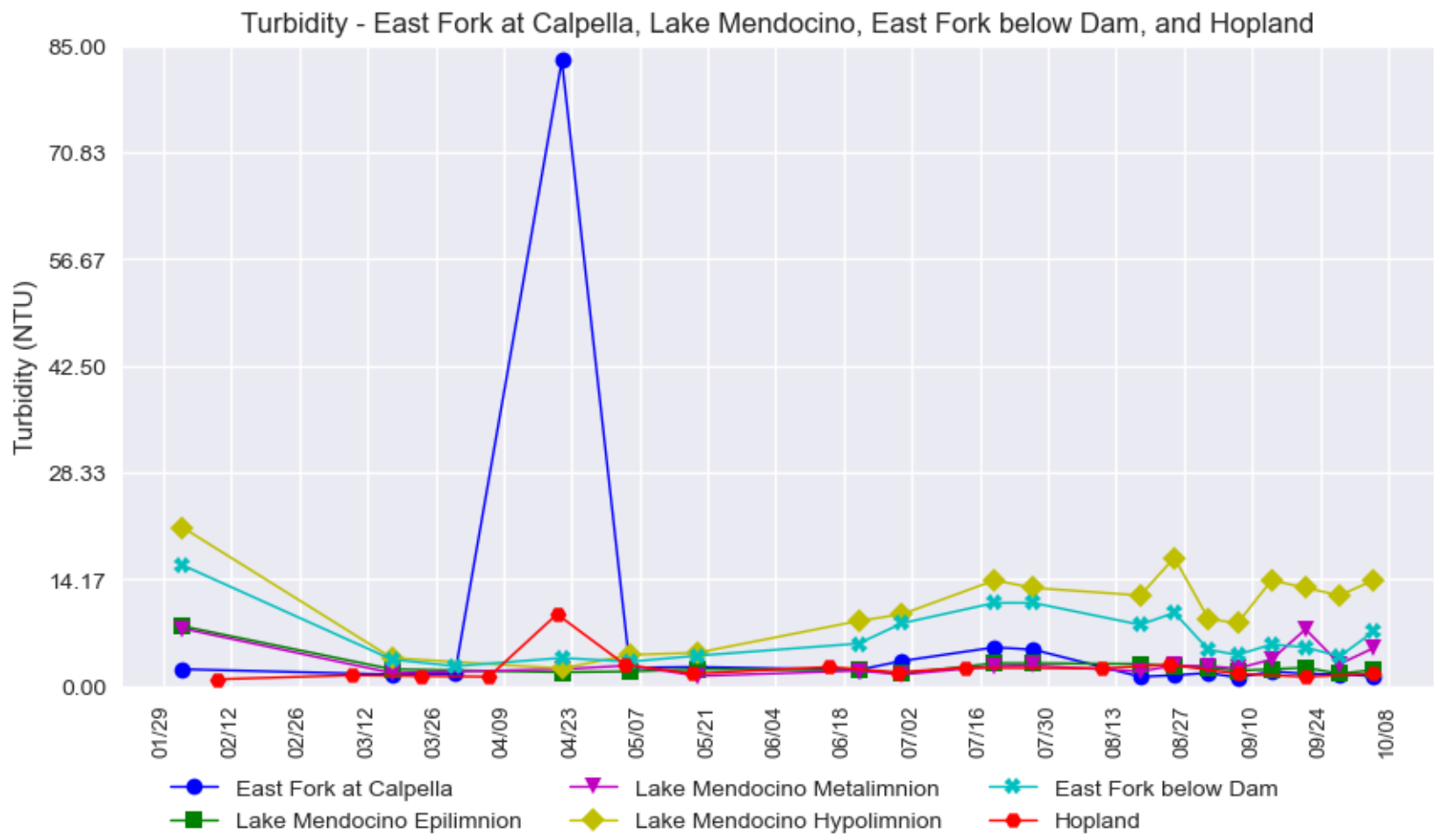


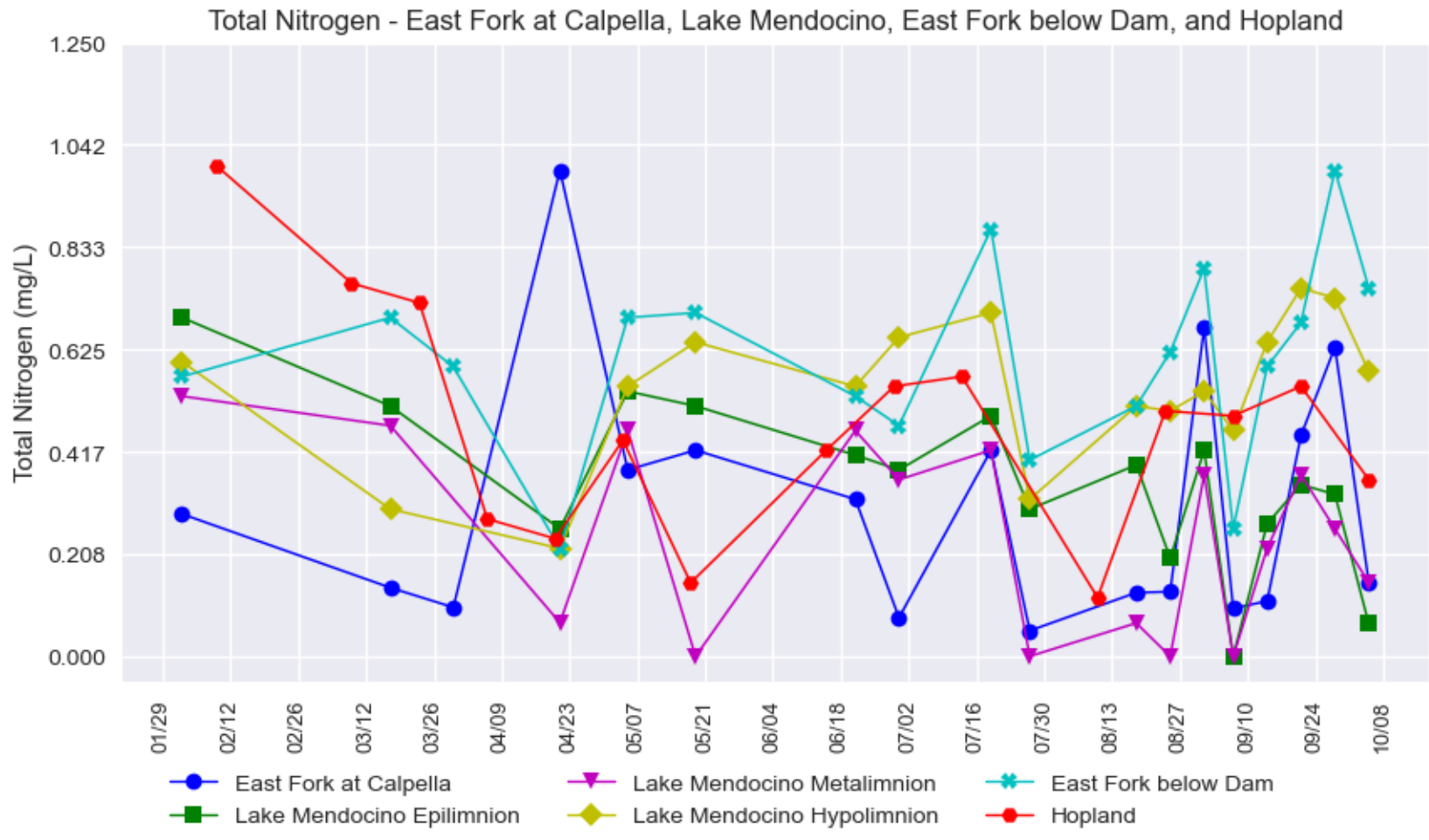
Russian River Water Quality Grab Samples (February 02 - October 05, 2022)

Provisional Data Subject to Revision

Lake Mendocino to Hopland Water Quality





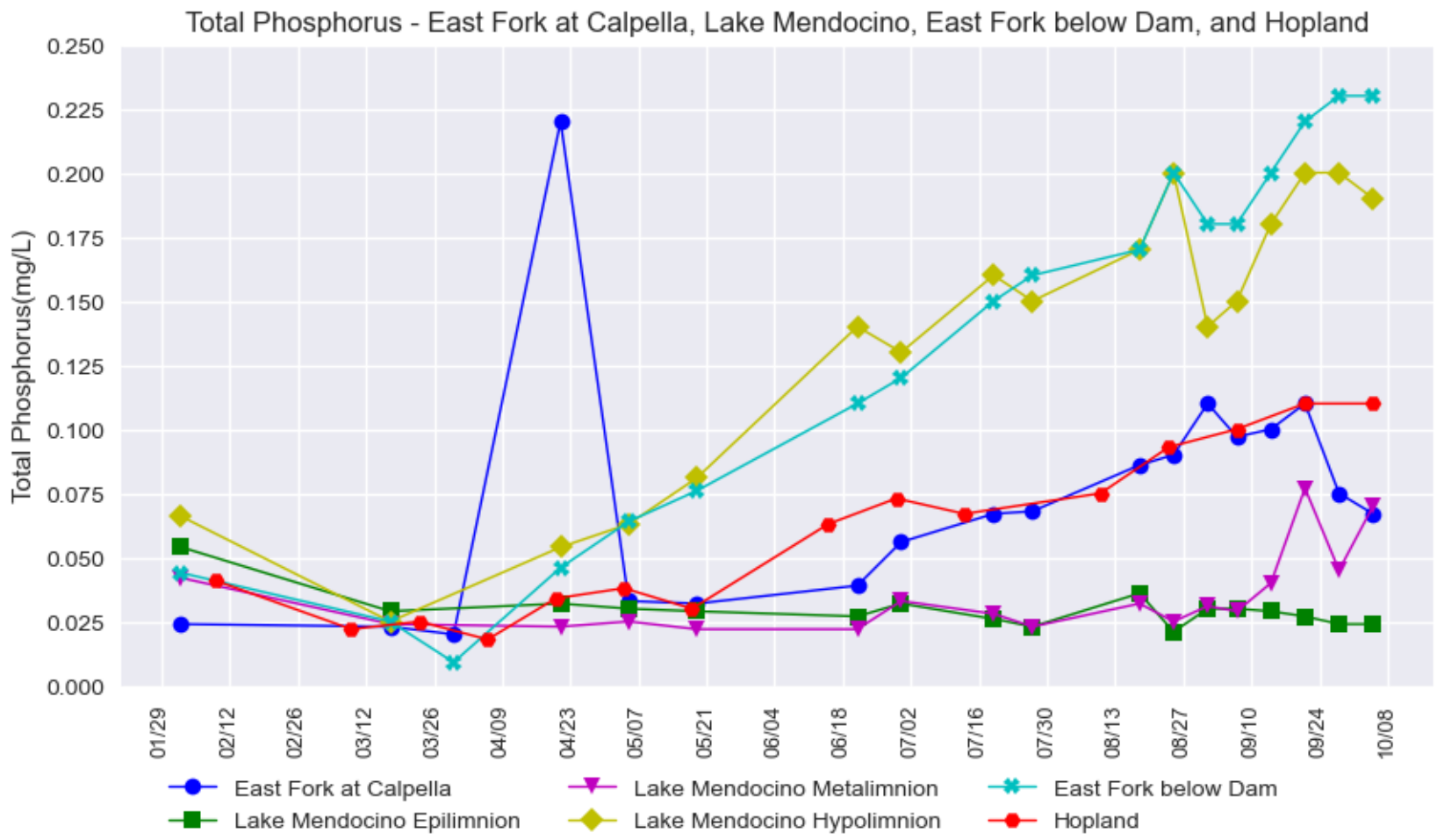


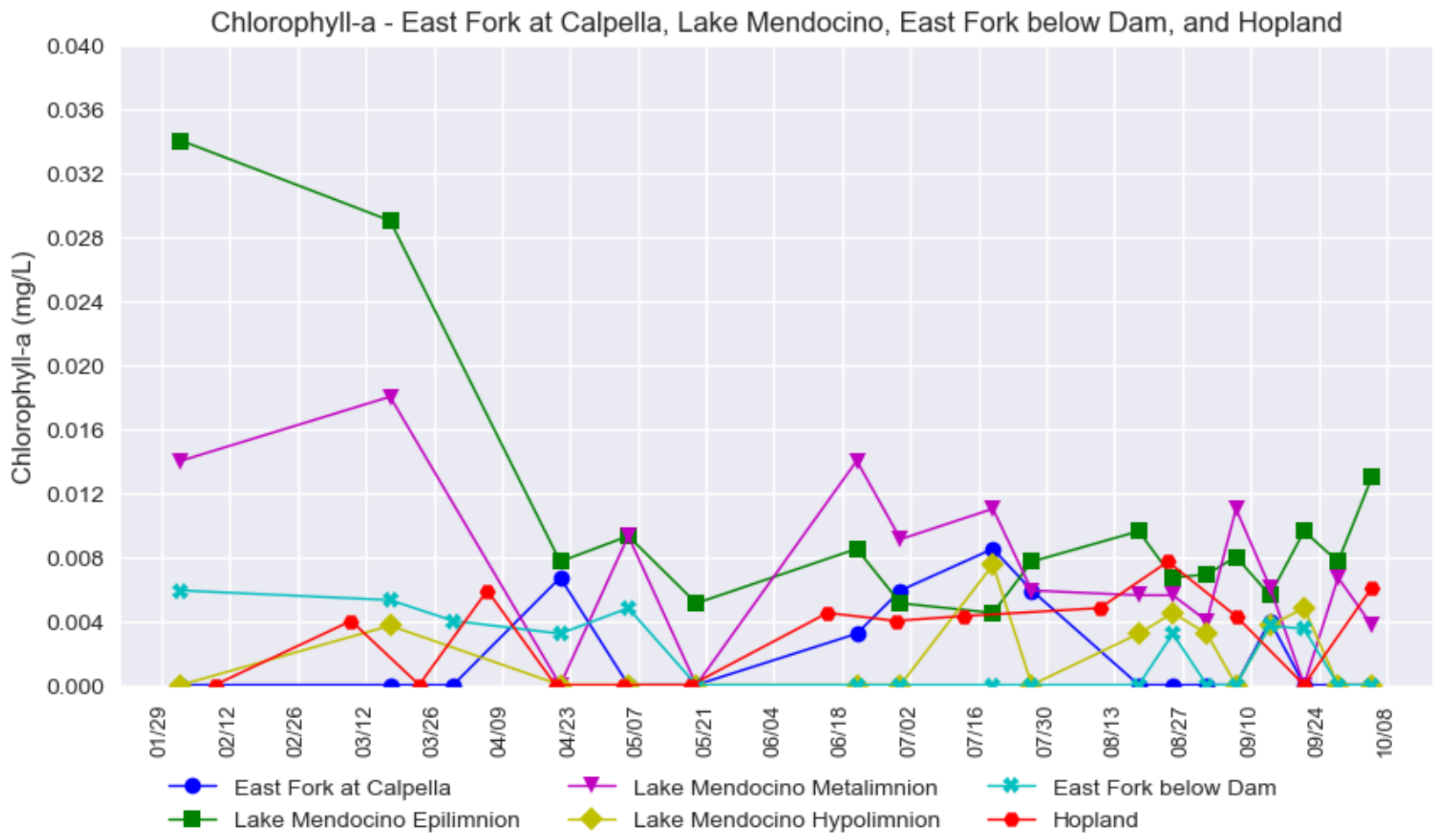
*Each marker in the plot represents a grab sample. The lines are used to help visualize the data, but do not represent a continuous data measurement.

Russian River Water Quality Grab Samples (February 02 - October 05, 2022)

Provisional Data Subject to Revision

Lake Mendocino to Hopland Water Quality



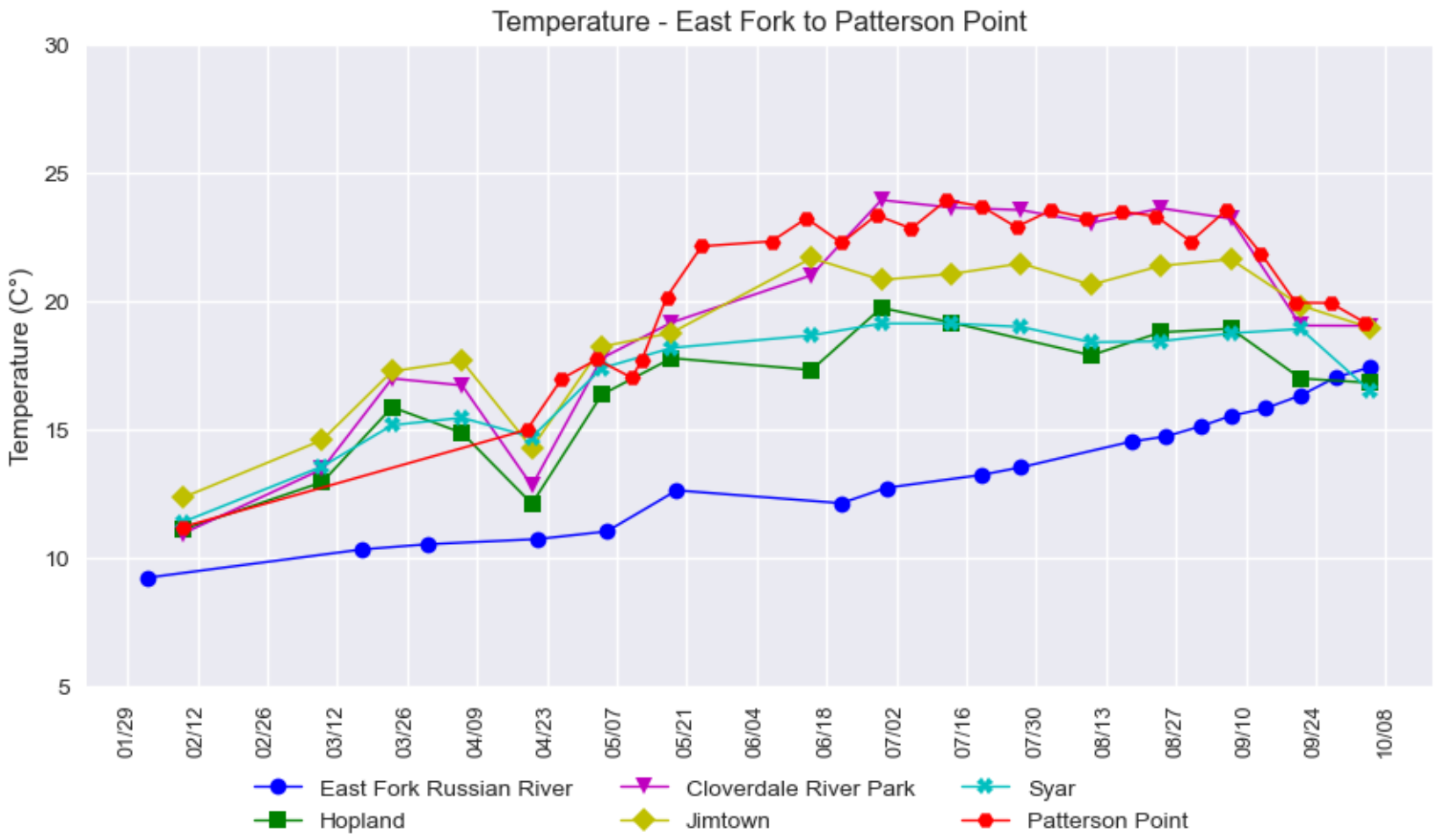


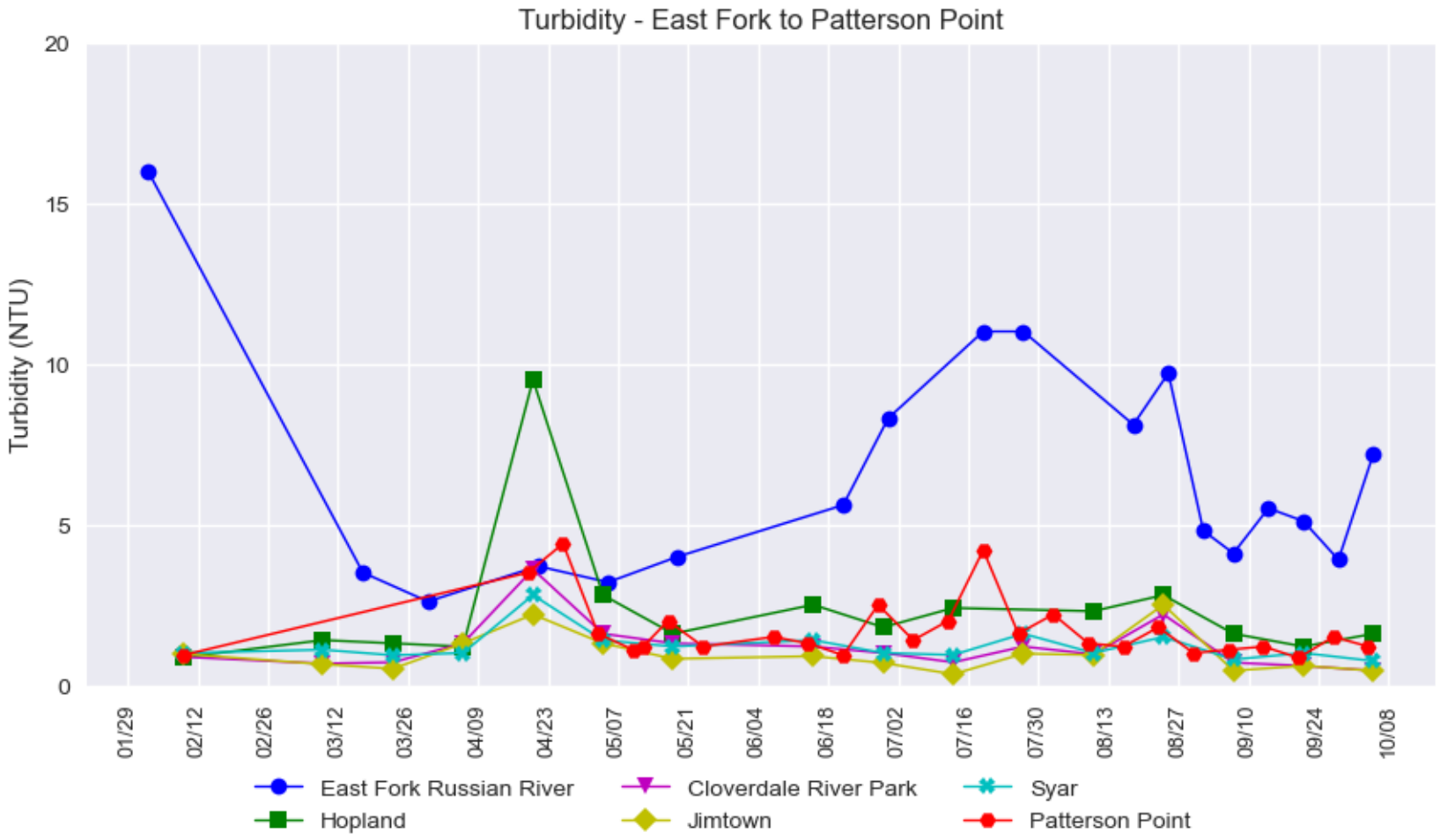
*Each marker in the plot represents a grab sample. The lines are used to help visualize the data, but do not represent a continuous data measurement.

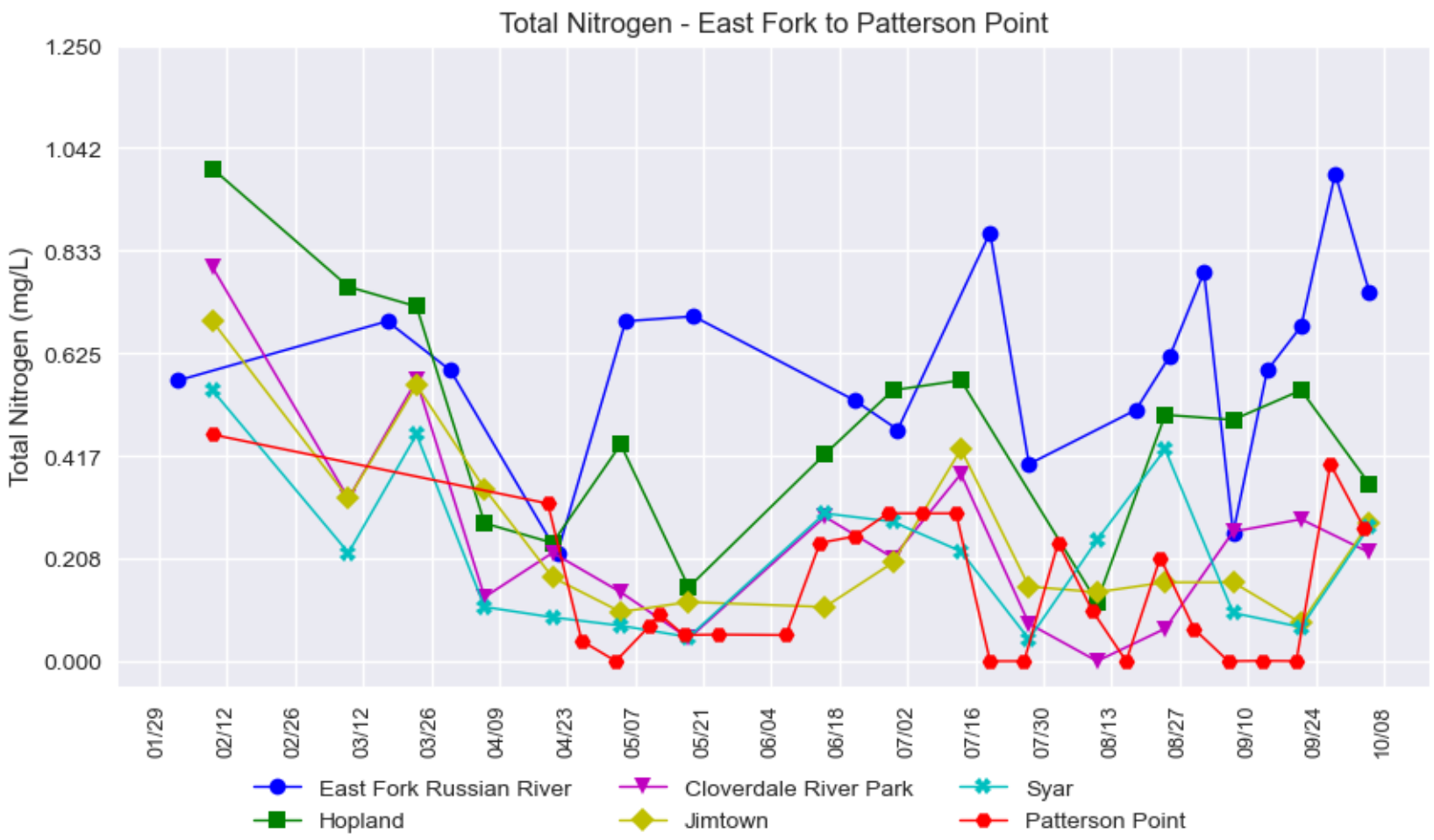
Russian River Water Quality Grab Samples (February 02 - October 05, 2022)

Provisional Data Subject to Revision

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







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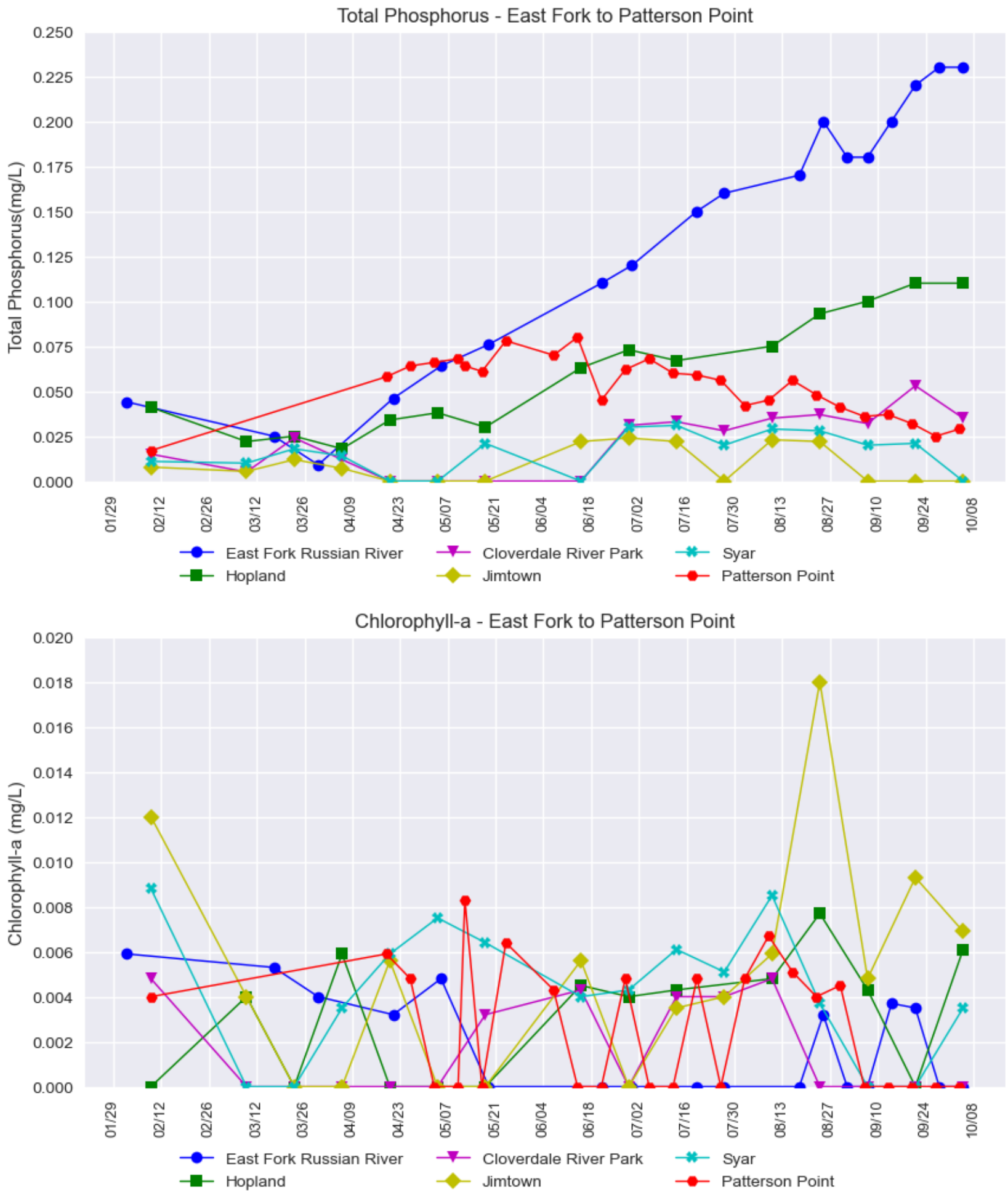
Russian River Water Quality Grab Samples (February 02 - October 05, 2022)

Provisional Data Subject to Revision

East Fork (below Lake Mendocino) to Syar 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 (August 23 - October 11, 2022)
Provisional Data Subject to Revision

Parameter***	CDPH Guidance*	Date	Patterson Point	Monte Rio	Vacation Beach
Total Coliforms MPN/100 mL	10,000	8/23/2022	1236**	1500**	1439**
		8/30/2022	1720**	1720**	1956**
		9/6/2022	2014**	2143**	3654**
		9/13/2022	1515**	12997**	3076**
		9/20/2022	3282**	1467**	2098**
		9/27/2022	1850**	2359**	1918**
		10/4/2022	1413.6	980.4	1119.9
		10/11/2022	1732.9	1553.1	1046.2
E. Coli MPN/100 mL	235	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
		9/13/2022	9.7	17.5	63.7
		9/20/2022	58.3	70.6	59.1
		9/27/2022	34.5	51.2	25.6
		10/4/2022	14.4	23.1	12.2
		10/11/2022	41.4	73.3	19.9
Enterococcus MPN/100 mL****	61	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
		9/13/2022	2	7.5	15.5
		9/20/2022	151.5	21.3	25.9
		9/27/2022	60.9	53.7	32.3
		10/4/2022	14.5	12.1	5.2
		10/11/2022	23.8	27.5	22.8

*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 2 - October 4, 2022)
Provisional Data Subject to Revision

Parameter		MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach
	Temperature	-	°C	8/2/2022	23.11	23.2	23.5
				8/9/2022	23.22	23.6	23.2
				8/16/2022	23.46	23.6	24.0
				8/23/2022	23.28	23.5	23.7
				8/30/2022	22.3	22.2	22.6
				9/6/2022	23.5	23.7	24.1
				9/13/2022	21.84	21.9	22.3
				9/20/2022	19.91	19.8	19.6
				9/27/2022	19.9	19.8	19.6
				10/4/2022	19.12	18.9	19.0
Nutrients	Ammonia as N	0.1	mg/L	8/2/2022	ND	ND	ND
				8/9/2022	0.12	0.1	0.1
				8/16/2022	ND	ND	ND
				8/23/2022	ND	ND	ND
				8/30/2022	ND	ND	ND
				9/6/2022	ND	ND	ND
				9/13/2022	ND	ND	ND
				9/20/2022	ND	ND	ND
				9/27/2022	ND	ND	ND
				10/4/2022	0.2	0.2	0.2
	Nitrate as N	0.04	mg/L	8/2/2022	ND	ND	ND
				8/9/2022	ND	ND	ND
				8/16/2022	ND	0.1	ND
				8/23/2022	ND	ND	ND
				8/30/2022	0.065	0.1	0.1
				9/6/2022	ND	ND	ND
				9/13/2022	ND	ND	ND
				9/20/2022	ND	ND	ND
				9/27/2022	ND	ND	ND
				10/4/2022	0.066	0.1	0.1
	Nitrite as N	0.05	mg/L	8/2/2022	ND	ND	ND
				8/9/2022	ND	ND	ND
				8/16/2022	ND	ND	ND
				8/23/2022	ND	ND	ND
				8/30/2022	ND	ND	ND
				9/6/2022	ND	ND	ND
				9/13/2022	ND	ND	ND
				9/20/2022	ND	ND	ND
				9/27/2022	ND	ND	ND
				10/4/2022	ND	ND	ND
	Total Organic Nitrogen as N	0.1	mg/L	8/2/2022	ND	ND	0.2
				8/9/2022	ND	ND	ND
				8/16/2022	ND	ND	ND
				8/23/2022	0.21	ND	ND
				8/30/2022	ND	ND	ND
				9/6/2022	ND	ND	ND
				9/13/2022	ND	ND	ND
				9/20/2022	ND	ND	ND
				9/27/2022	0.4	ND	ND
				10/4/2022	ND	ND	ND
	Total Kjeldahl Nitrogen	0.2	mg/L	8/2/2022	ND	ND	0.2
				8/9/2022	ND	ND	ND
				8/16/2022	ND	ND	ND
				8/23/2022	0.21	ND	ND
				8/30/2022	ND	ND	ND
				9/6/2022	ND	ND	ND
				9/13/2022	ND	ND	ND
				9/20/2022	ND	ND	ND
				9/27/2022	0.4	ND	ND
				10/4/2022	ND	ND	ND
	Total Phosphorus	0.02	mg/L	8/2/2022	0.056	0.1	0.0
				8/9/2022	0.06	0.1	0.0
				8/16/2022	0.056	0.1	0.0
				8/23/2022	0.048	0.0	0.0
				8/30/2022	0.041	0.0	0.0
				9/6/2022	0.036	0.0	0.0
				9/13/2022	0.037	0.0	0.0
				9/20/2022	0.032	0.0	0.0
				9/27/2022	0.025	0.0	0.0
				10/4/2022	0.029	0.0	0.0
	Total Orthophosphate	0.03	mg/L	8/2/2022	0.11	0.1	0.1
				8/9/2022	0.093	0.1	0.1
				8/16/2022	0.079	0.1	0.0
				8/23/2022	0.077	0.1	0.0
				8/30/2022	0.071	0.1	0.0
				9/6/2022	0.053	0.0	ND
				9/13/2022	0.064	0.1	0.0
				9/20/2022	0.038	0.0	0.0
				9/27/2022	0.034	0.0	0.0
				10/4/2022	0.04	0.0	0.0

Russian River Water Quality Grab Samples (August 2 - October 4, 2022)
Provisional Data Subject to Revision

Parameter		MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach
Chlorophyll	Chlorophyll A	0.003	mg/L	8/2/2022	0.0048	0.0	0.0
				8/9/2022	ND	ND	0.0
				8/16/2022	0.0051	ND	0.0
				8/23/2022	0.004	ND	0.0
				8/30/2022	0.0045	ND	ND
				9/6/2022	ND	ND	0.0
				9/13/2022	ND	0.0	ND
				9/20/2022	ND	ND	ND
				9/27/2022	ND	ND	ND
				10/4/2022	ND	ND	ND
Carbon	Total Organic Carbon	0.3	mg/L	8/2/2022	2.58	2.7	2.7
				8/9/2022	2.43	2.4	2.3
				8/16/2022	2.24	2.3	2.2
				8/23/2022	2.24	2.2	2.2
				8/30/2022	2.07	2.1	2.1
				9/6/2022	2.09	2.0	2.0
				9/13/2022	2.01	2.2	2.1
				9/20/2022	2.17	2.1	2.0
				9/27/2022	2.06	1.9	1.9
				10/4/2022	1.8	1.8	1.8
	Dissolved Organic Carbon	0.2	mg/L	8/2/2022	2.11	2.3	2.1
				8/9/2022	2.02	2.0	2.0
				8/16/2022	1.91	1.9	2.0
				8/23/2022	1.9	1.9	1.9
				8/30/2022	1.68	1.7	1.7
				9/6/2022	1.75	1.7	1.6
				9/13/2022	1.64	1.8	1.7
				9/20/2022	1.71	1.7	1.6
				9/27/2022	1.63	1.6	1.6
				10/4/2022	1.54	1.7	1.5
Solids	Turbidity	0.1	NTU	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
				8/23/2022	1.8	1.0	0.9
				8/30/2022	1	1.1	1.2
				9/6/2022	1.1	1.0	1.6
				9/13/2022	1.2	1.0	1.1
				9/20/2022	0.85	1.0	1.0
				9/27/2022	1.5	2.3	3.4
				10/4/2022	1.2	1.6	2.2
	TDS	10	mg/L	8/2/2022	180	170.0	150.0
				8/9/2022	160	160.0	150.0
				8/16/2022	140	140.0	140.0
				8/23/2022	140	160.0	150.0
				8/30/2022	140	130.0	130.0
				9/6/2022	150	140.0	140.0
				9/13/2022	150	150.0	130.0
				9/20/2022	140	120.0	94.0
				9/27/2022	170	170.0	170.0
				10/4/2022	160	160.0	170.0