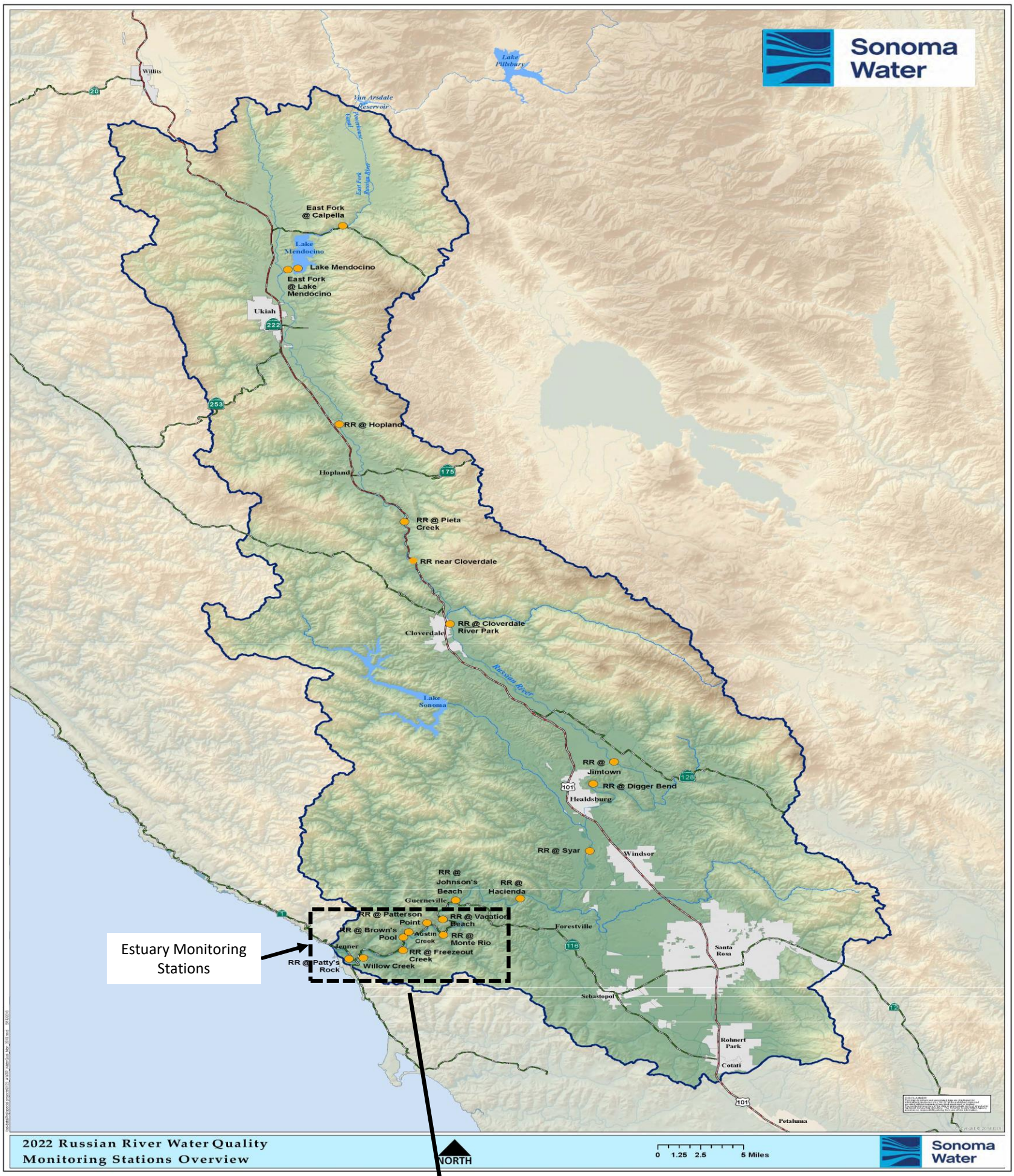
Sonoma Water

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

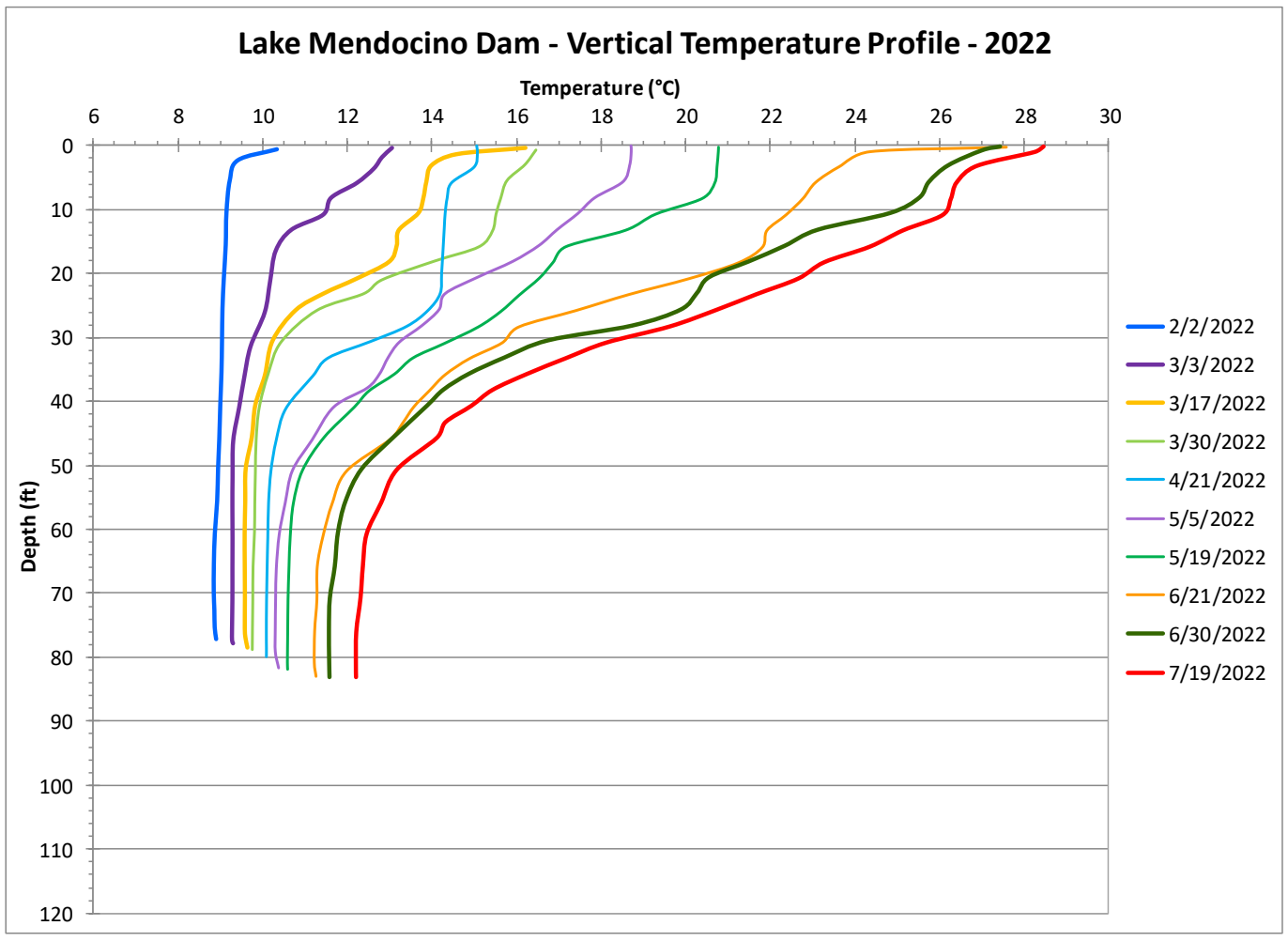
Russian River Water Quality Report

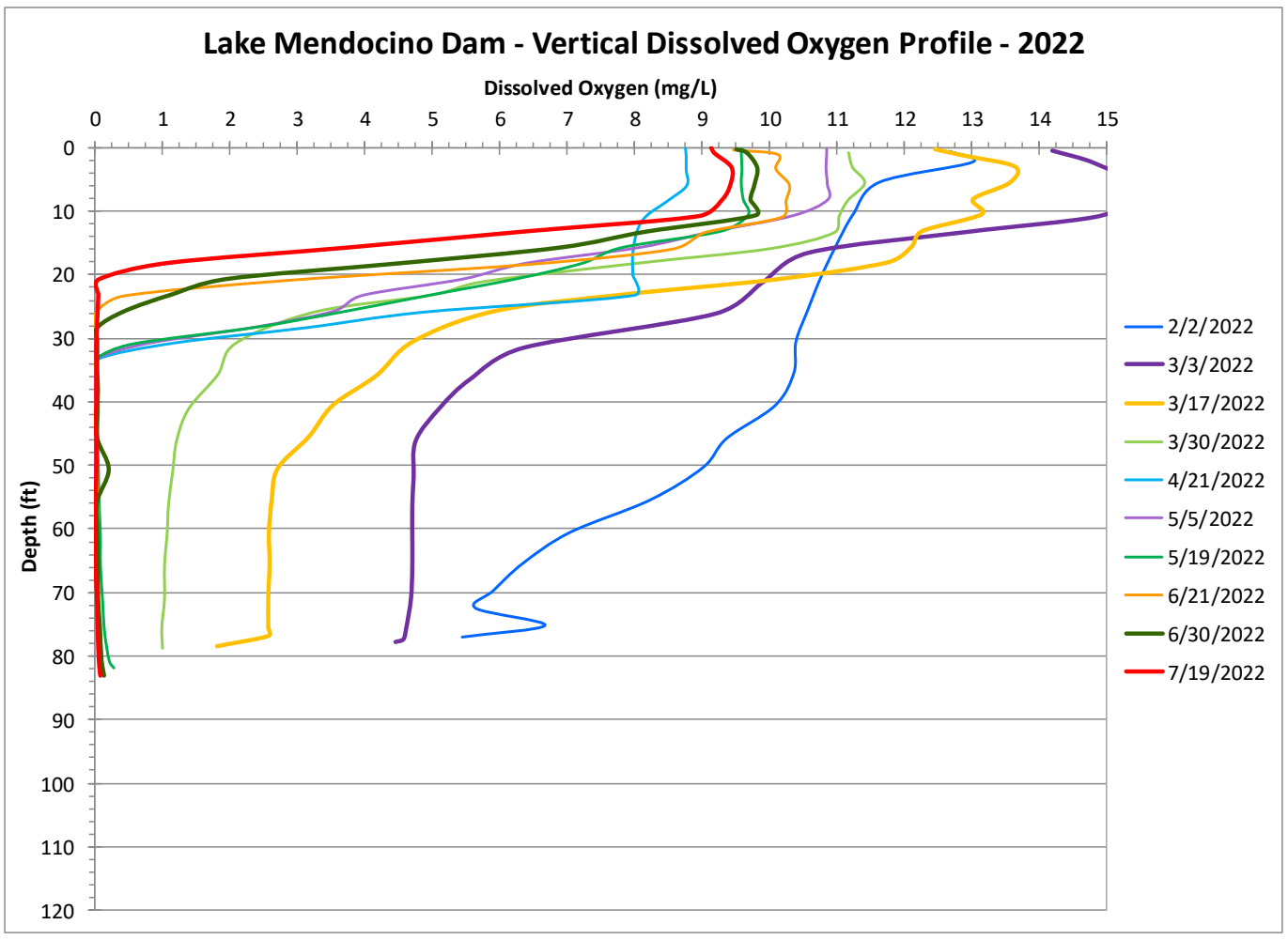
July 15, 2022 - July 21, 2022

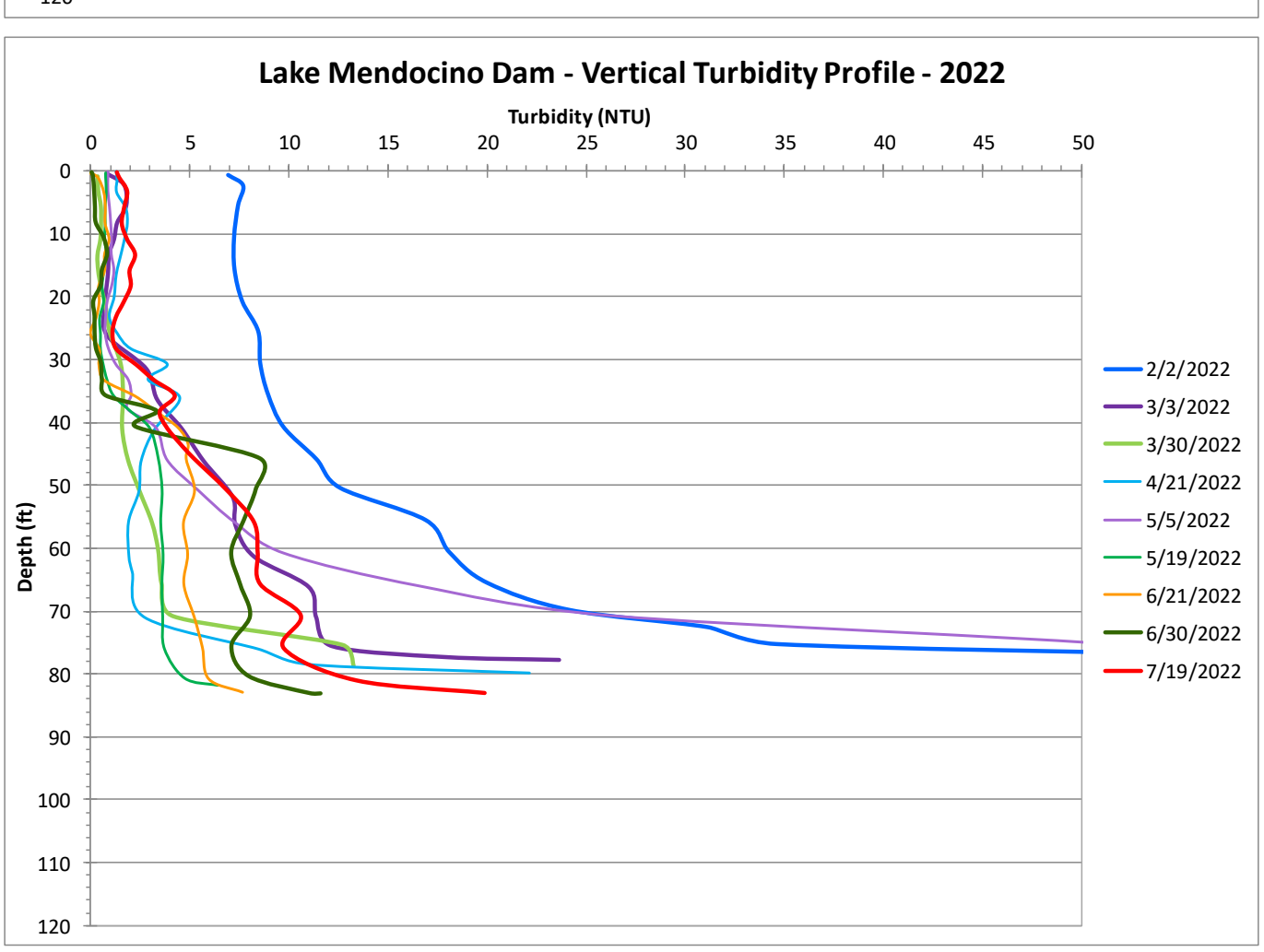


Lake Mendocino Water Quality Vertical Profiles (February 2 – July 19, 2022)

Provisional Data Subject to Revision





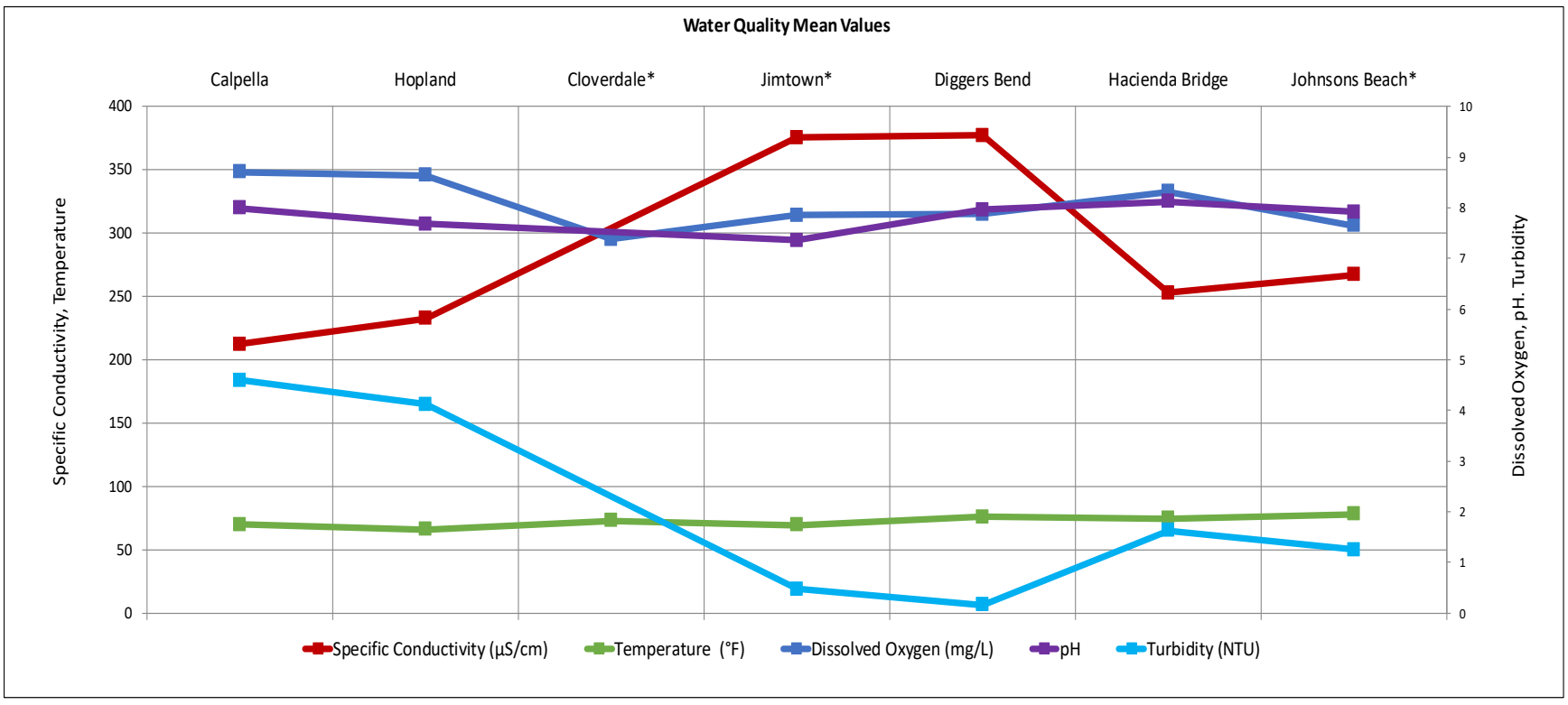


Russian River Water Quality (July 15, 2022 - July 21, 2022)

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	66.6	61.0	68.4	65.5	71.1		72.7	75.3
	Max	72.7	70.0	77.7	74.3	80.8		77.0	81.3
	Mean	69.9	66.1	72.8	69.7	76.0		74.9	78.1
Specific Conductivity (µS/cm)	Min	208.0	231.0		372.0	373.0		246.0	138.3
	Max	216.0	235.0		379.0	380.0		264.0	284.2
	Mean	212.3	232.6		375.7	377.2		253.1	267.4
Dissolved Oxygen (mg/L)	Min	8.0	7.6	5.2	5.1	5.8		7.0	5.1
	Max	10.1	10.3	10.1	11.9	10.1		9.0	10.0
	Mean	8.7	8.6	7.4	7.9	7.9		8.3	7.6
Dissolved Oxygen (% Saturation)	Min	90.6	80.1	58.9	55.6	67.1		81.7	61.6
	Max	114.9	112.1	119.7	138.2	125.6		108.3	121.8
	Mean	97.8	93.2	85.9	88.5	94.9		98.4	93.7
pH	Min	7.8	7.5		7.2	7.7		7.8	7.7
	Max	8.4	8.0		7.6	8.2		8.3	8.2
	Mean	8.0	7.7		7.4	8.0		8.1	7.9
Turbidity (NTU)	Min	3.2	2.6		0.1	0.0		0.9	-0.9
	Max	7.0	6.4		1.0	0.6		3.2	88.2
	Mean	4.6	4.1		0.5	0.2		1.6	1.2

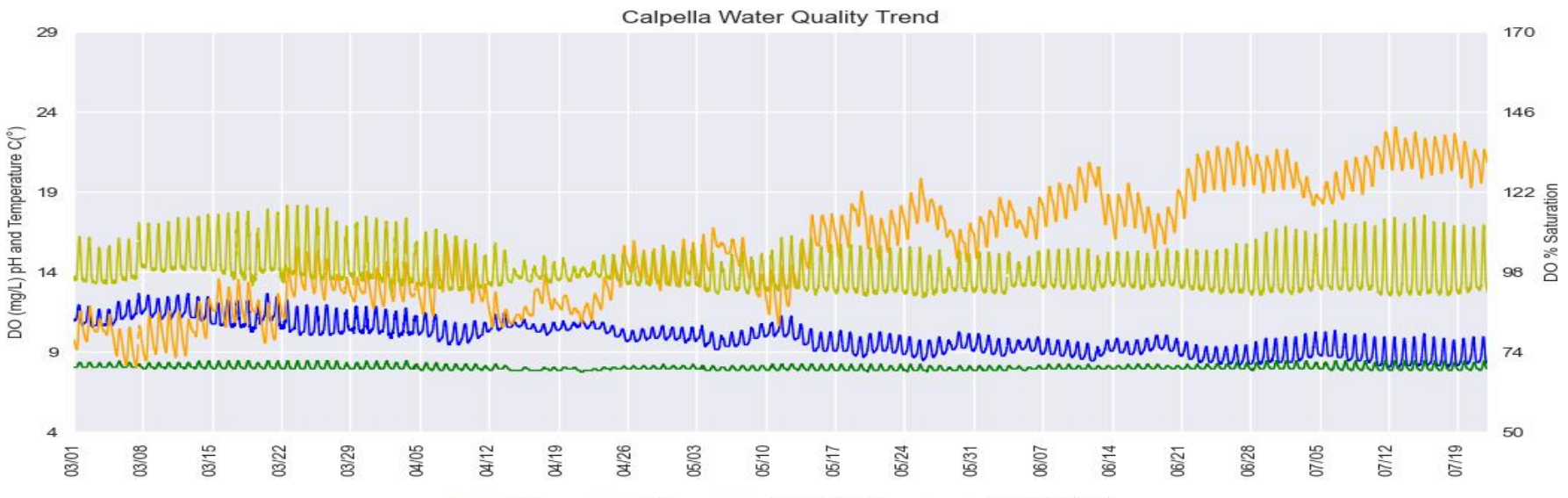
*Station operated seasonally

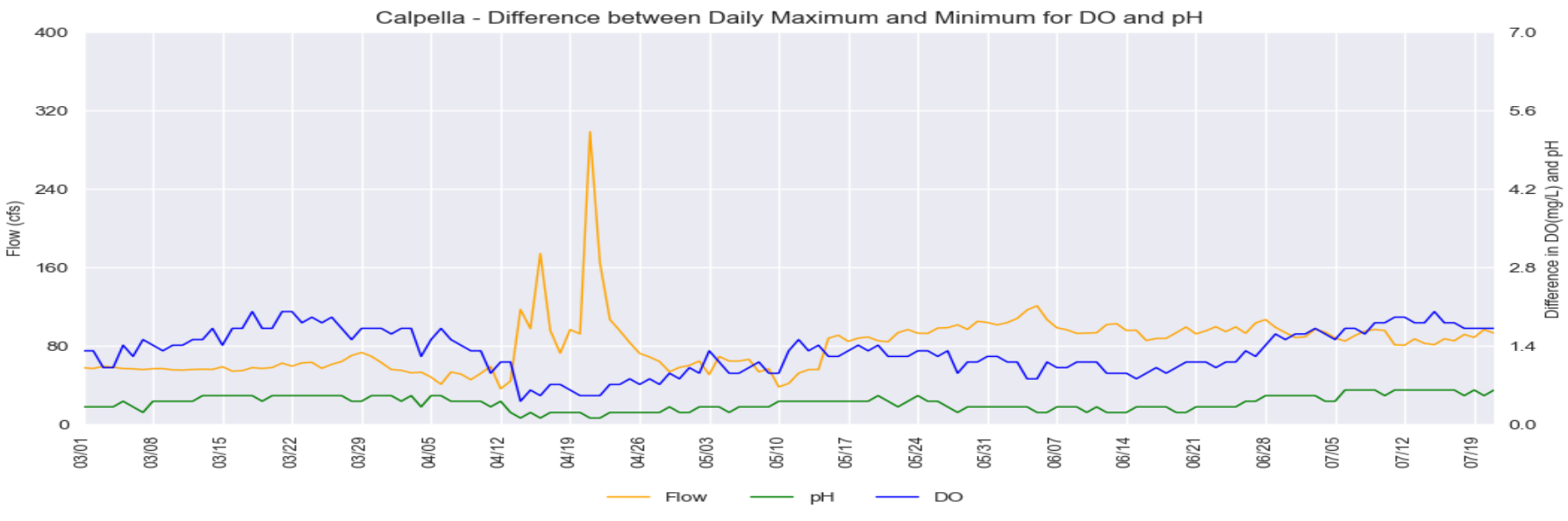


Russian River Water Quality (March 01, 2022 - July 21, 2022)

Provisional Data Subject to Revision

Calpella (East Fork Russian River)

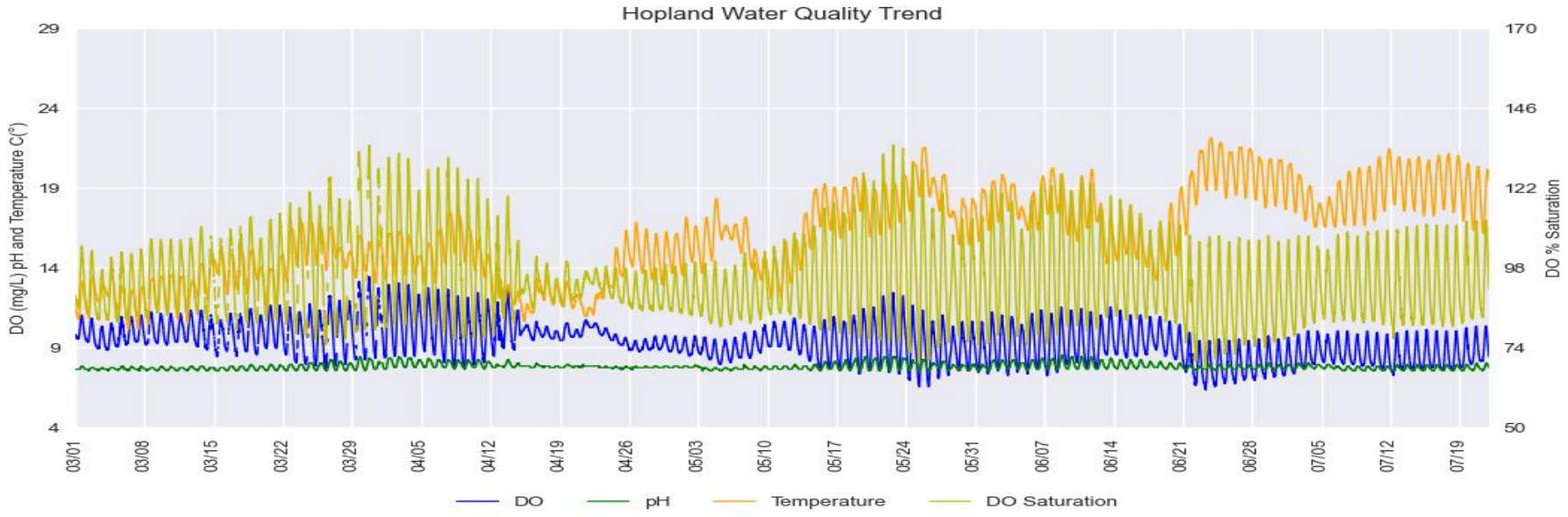


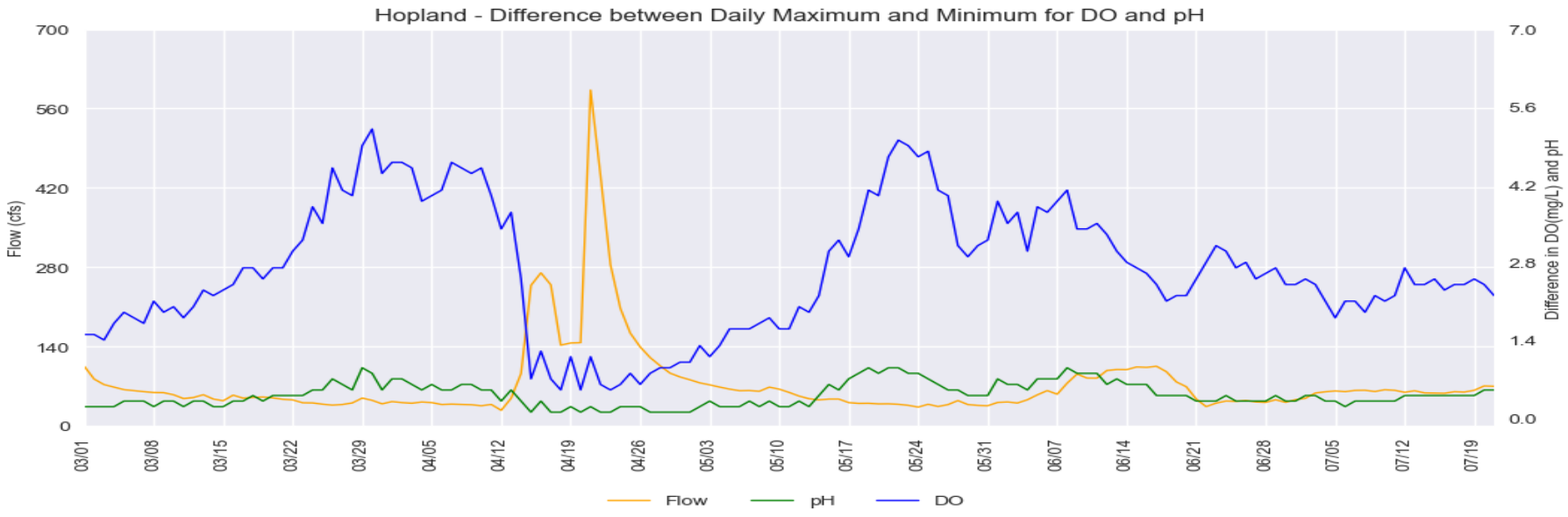


Russian River Water Quality (March 01, 2022 - July 21, 2022)

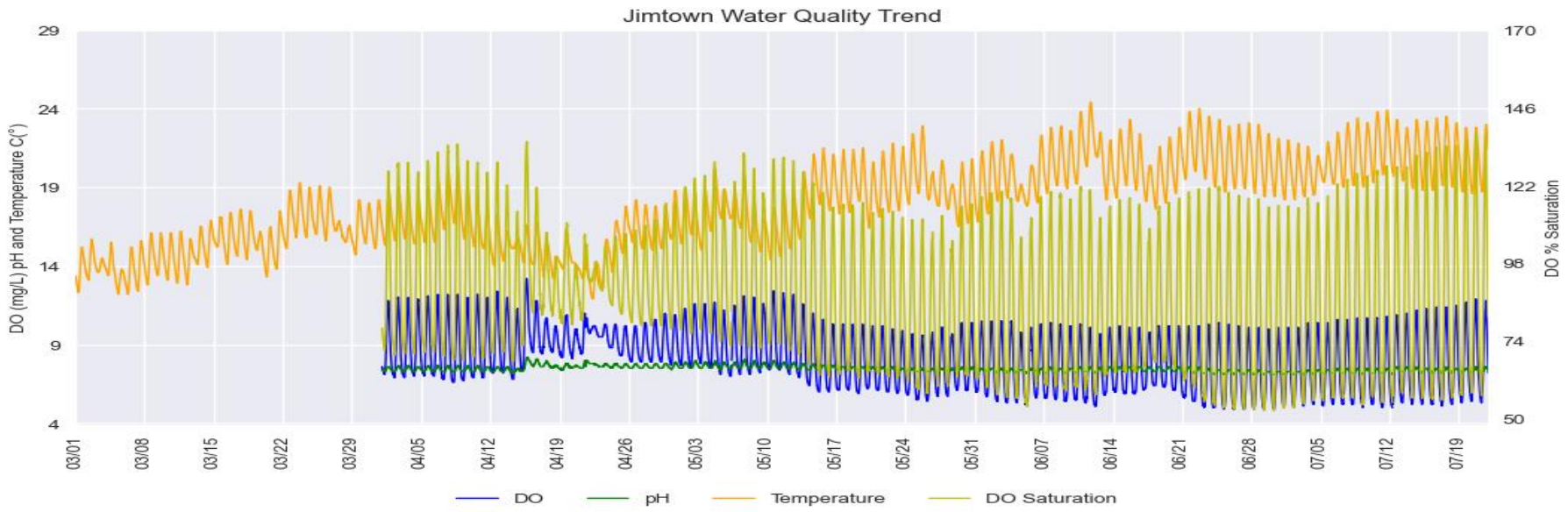
Provisional Data Subject to Revision

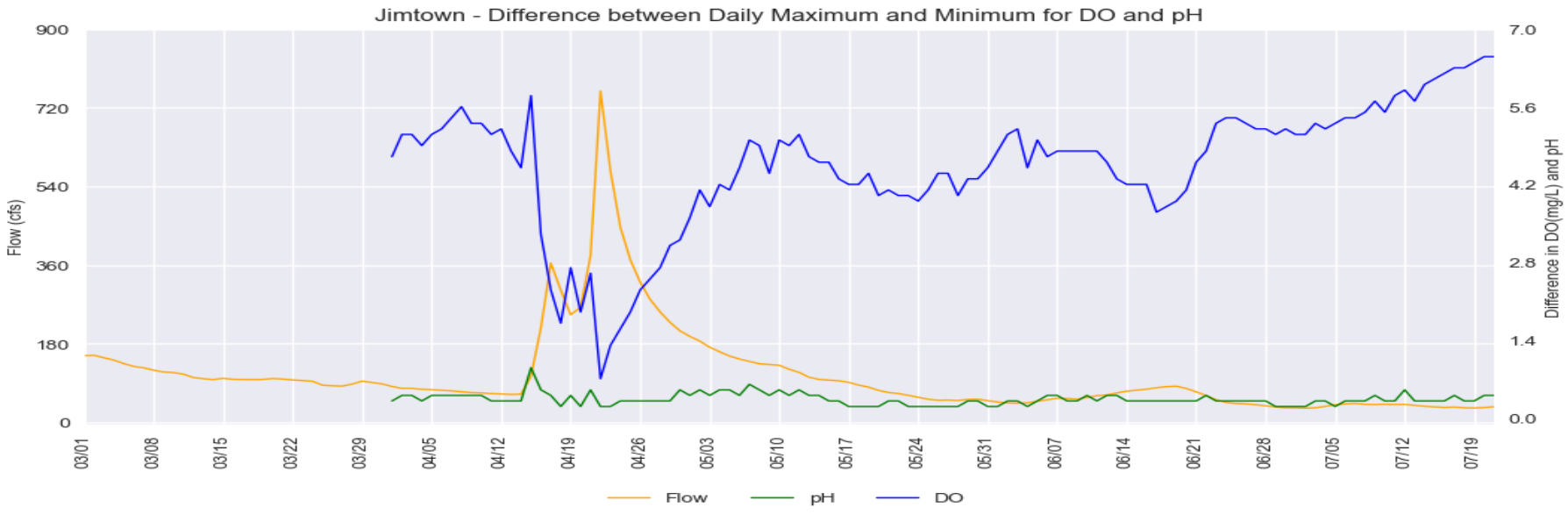
Hopland





Jimtown

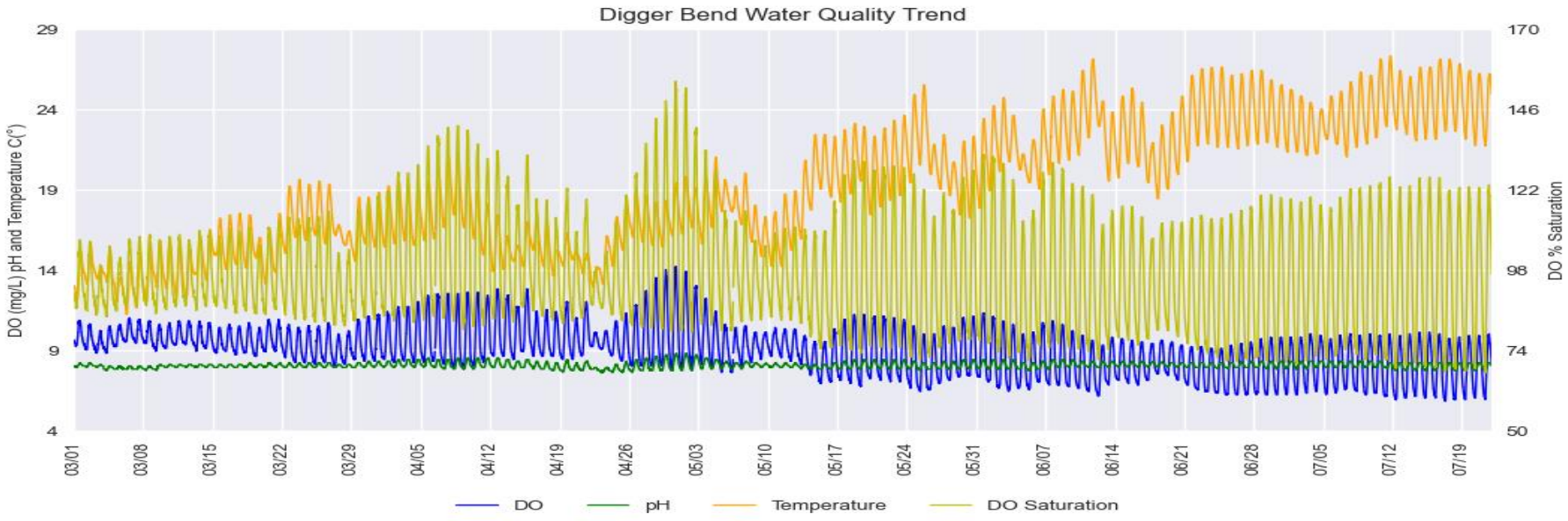


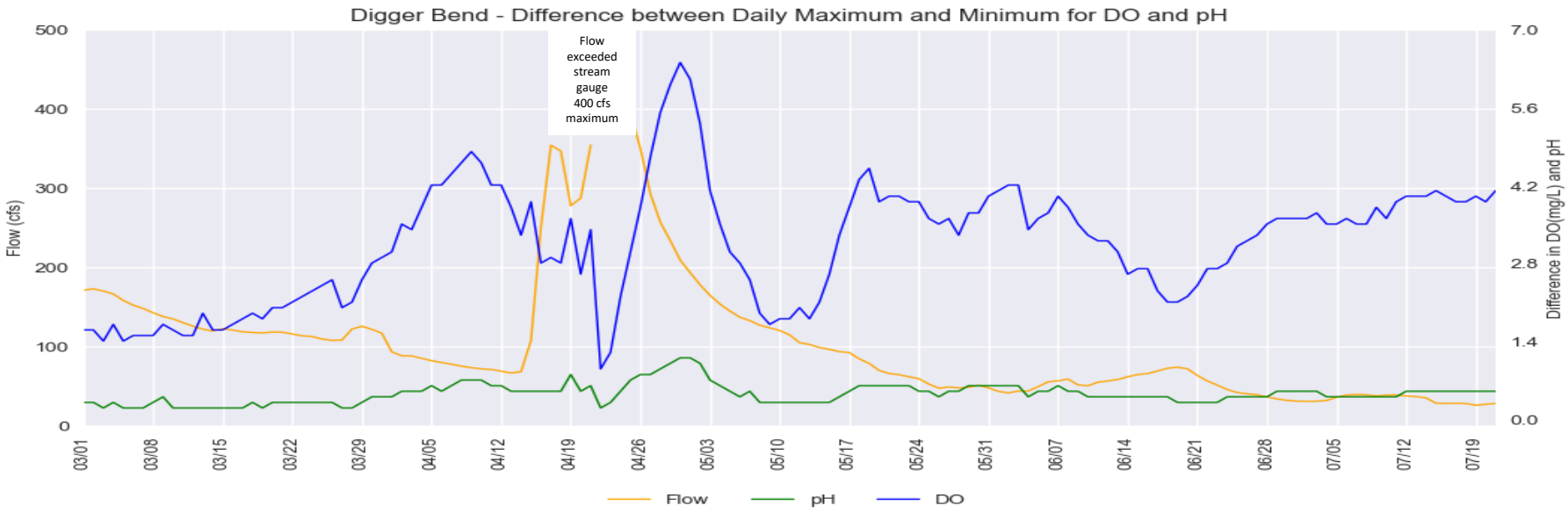


Russian River Water Quality (March 01, 2022 - July 21, 2022)

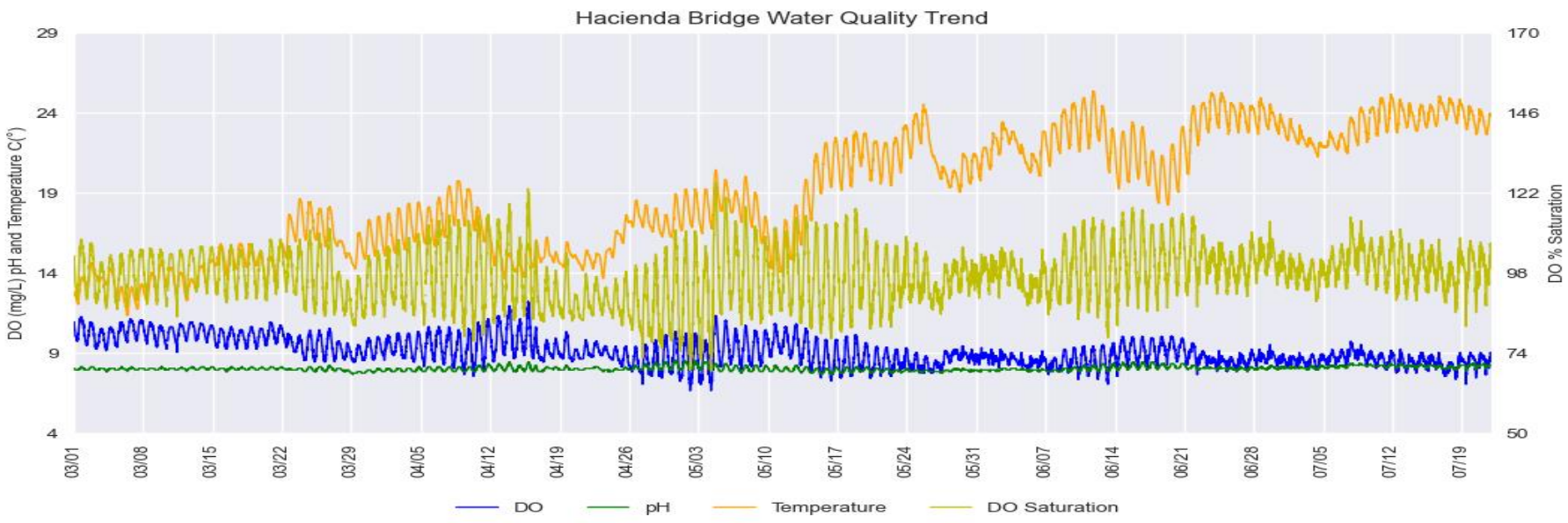
Provisional Data Subject to Revision

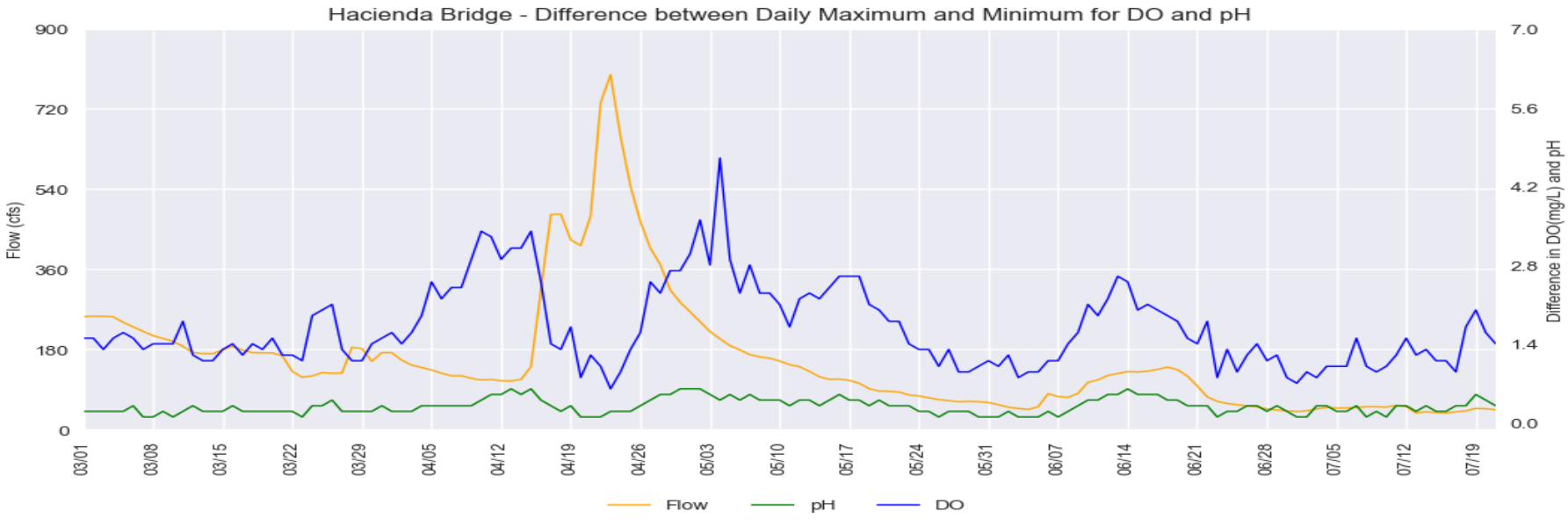
Digger Bend





Hacienda Bridge

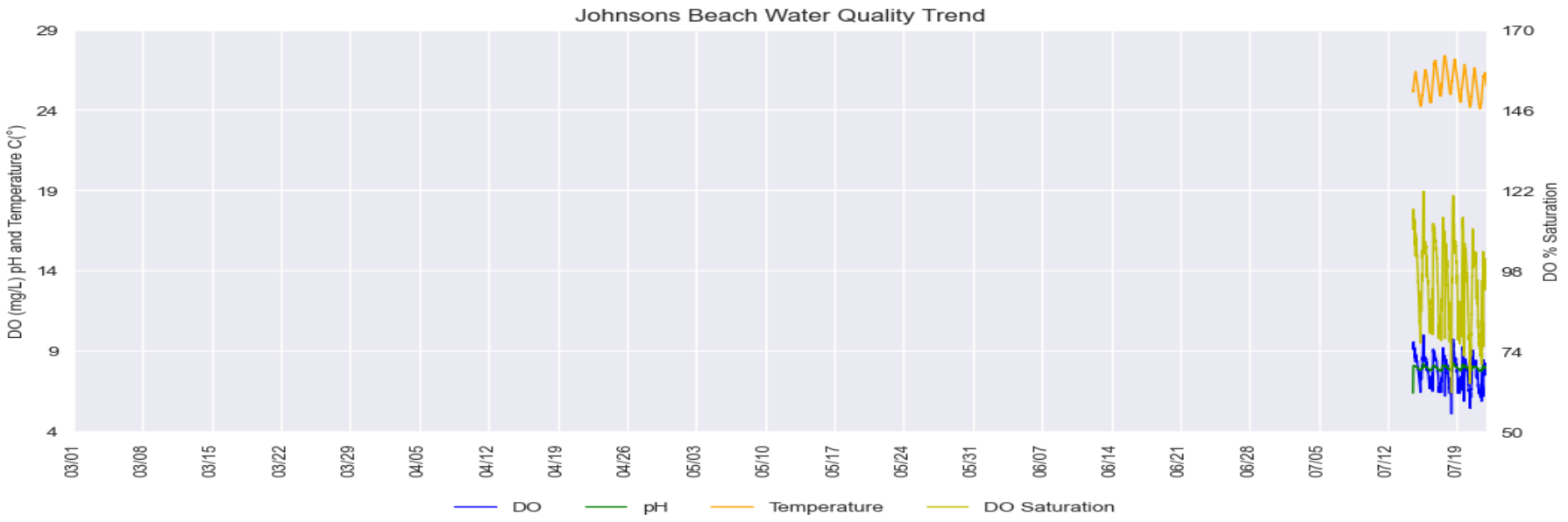


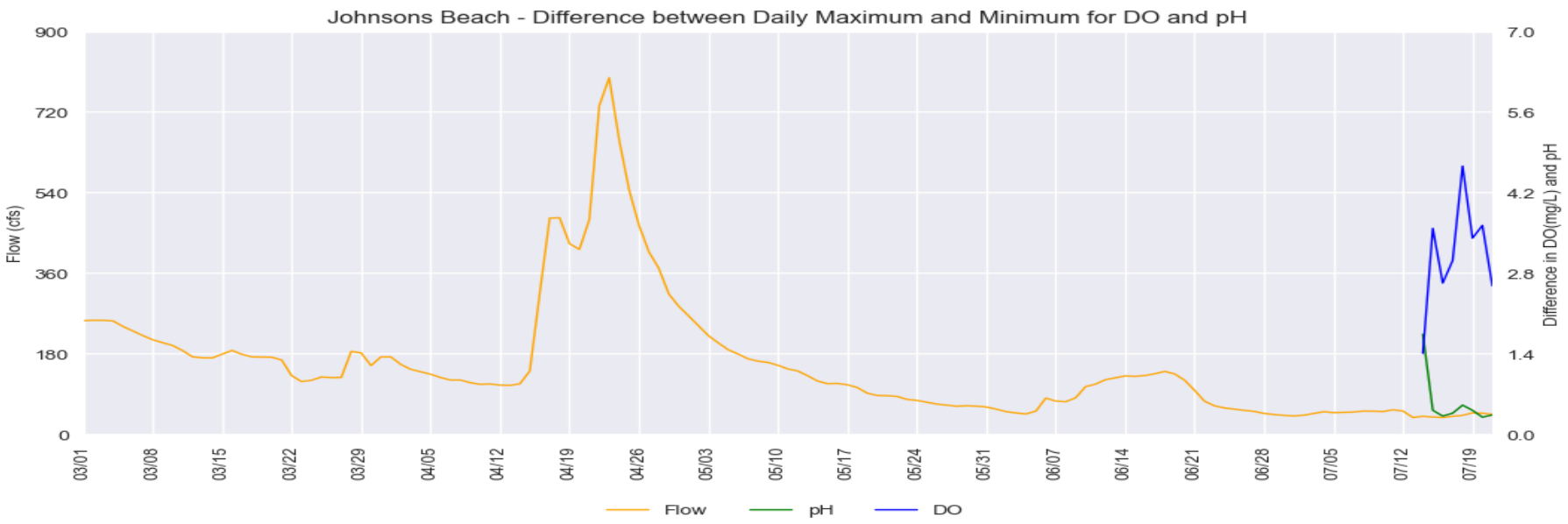


Russian River Water Quality (March 01, 2022 - July 21, 2022)

Provisional Data Subject to Revision

Johnsons Beach

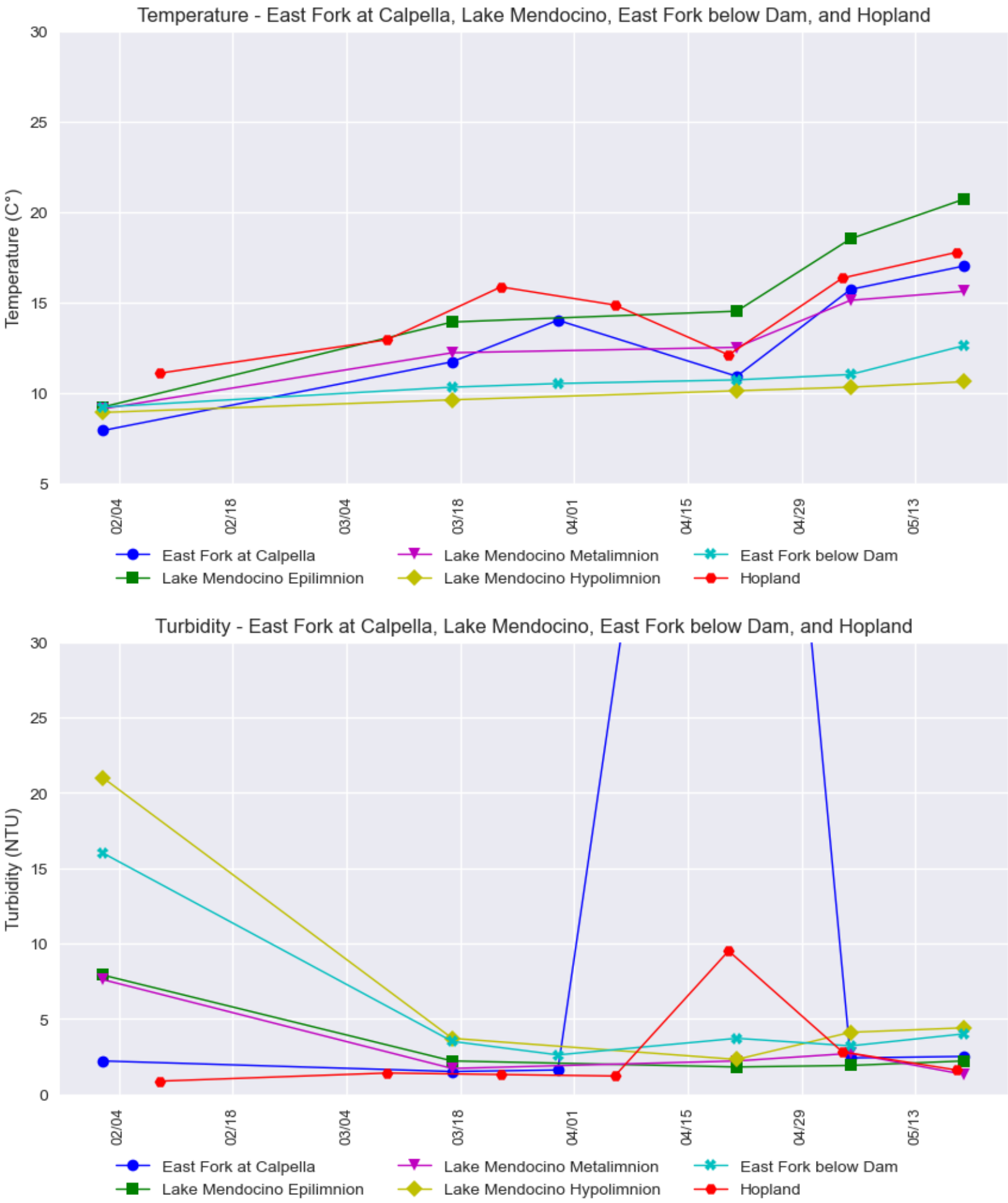


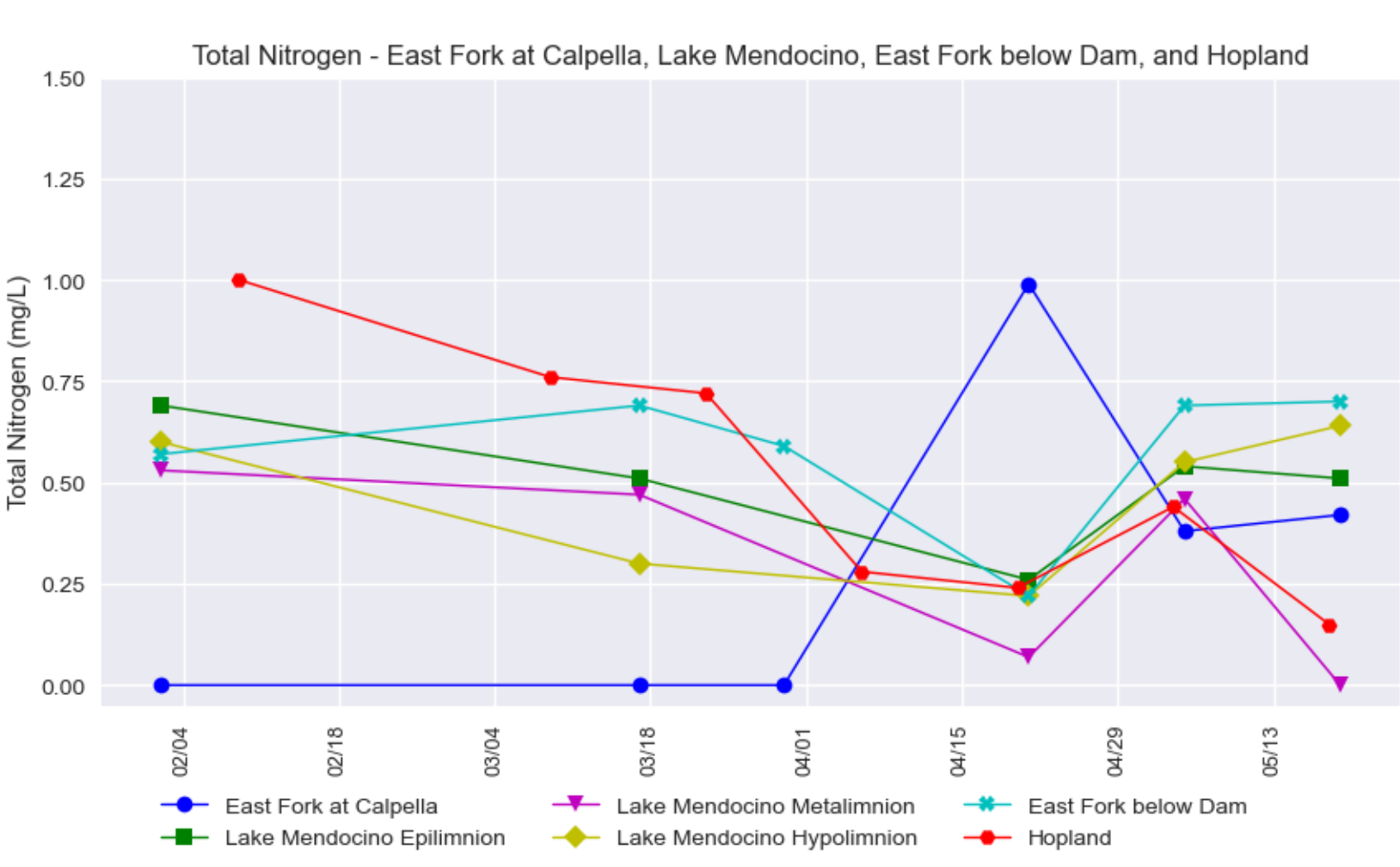


Russian River Water Quality Grab Samples (February 2 - May 19, 2022)

Provisional Data Subject to Revision

Lake Mendocino to Hopland Water Quality



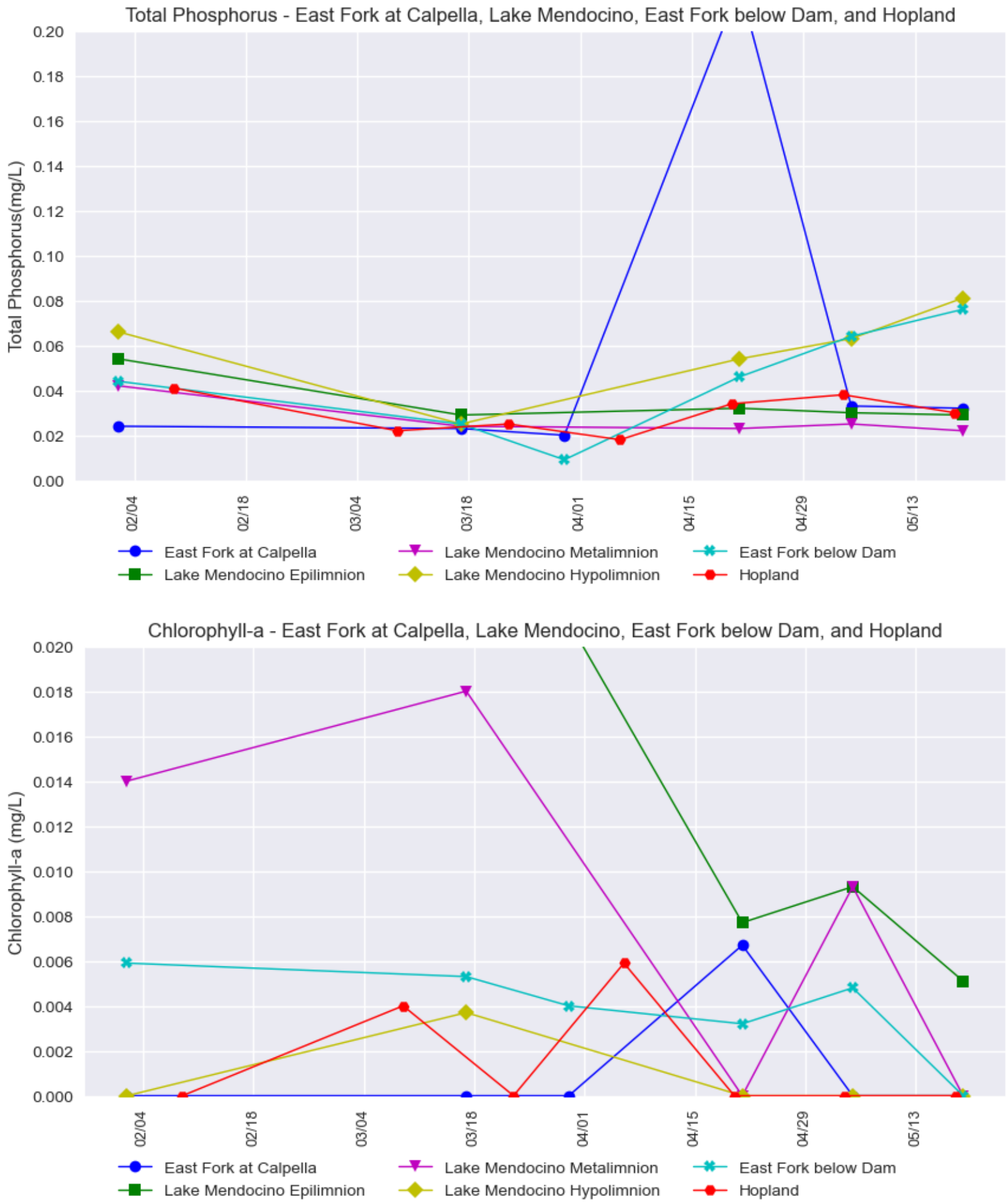


*Each marker in the plot represents a grab sample. The lines are used to help visualize the data, but do not represent a continuous data measurement.

Russian River Water Quality Grab Samples (February 2 - May 19, 2022)

Provisional Data Subject to Revision

Lake Mendocino to Hopland Water Quality



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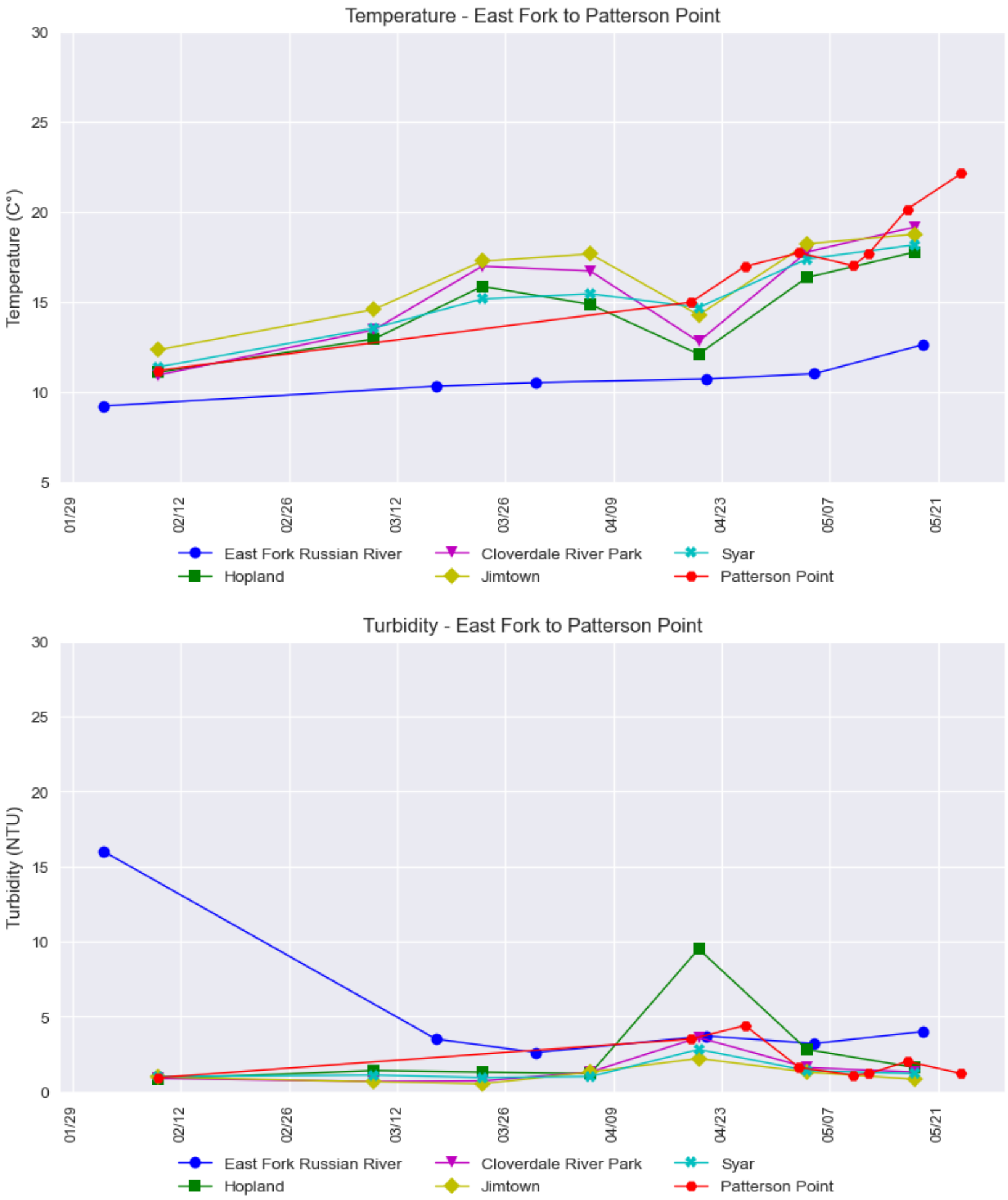
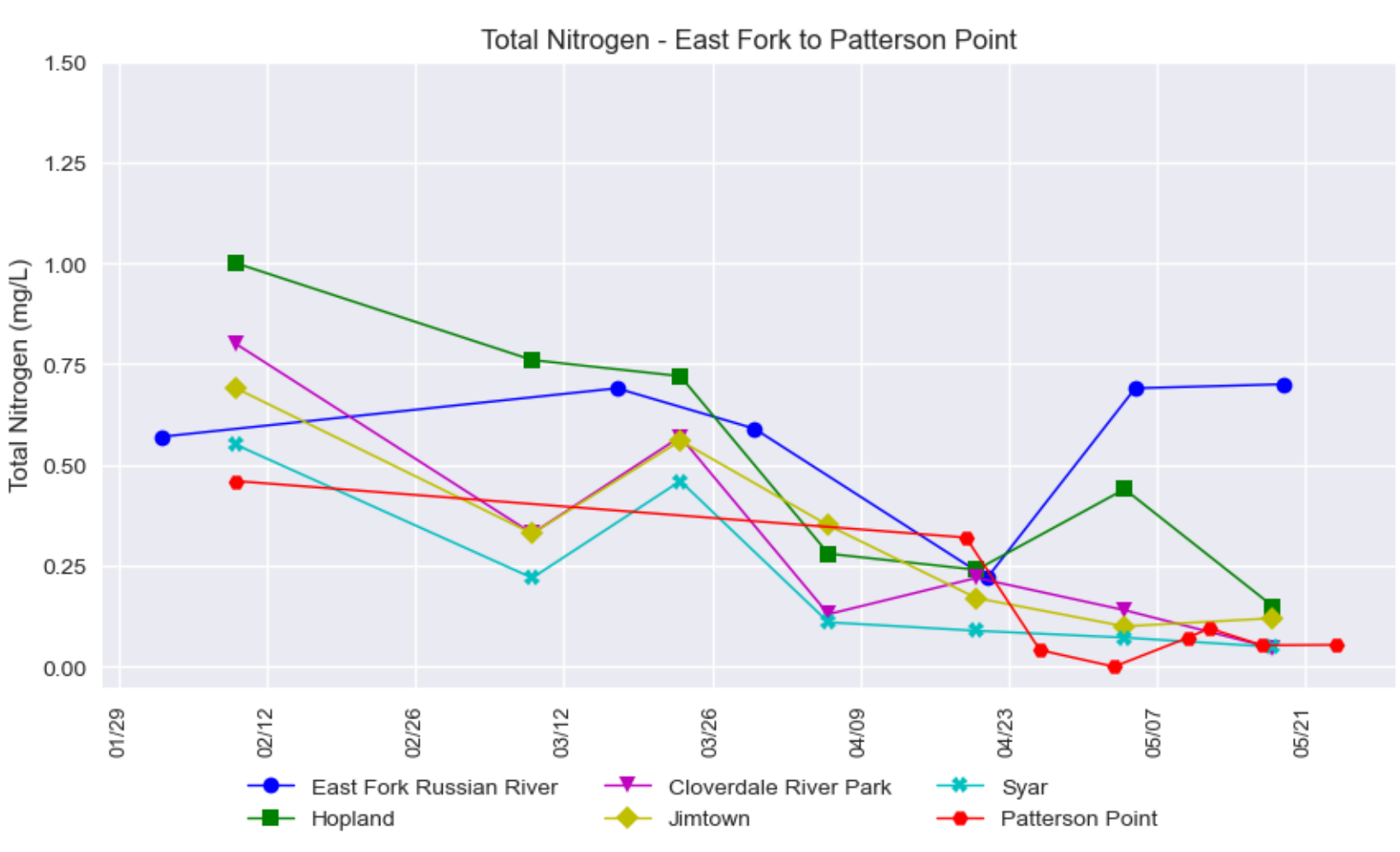
Russian River Water Quality Grab Samples (February 2 - May 19, 2022)

Provisional Data Subject to Revision

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





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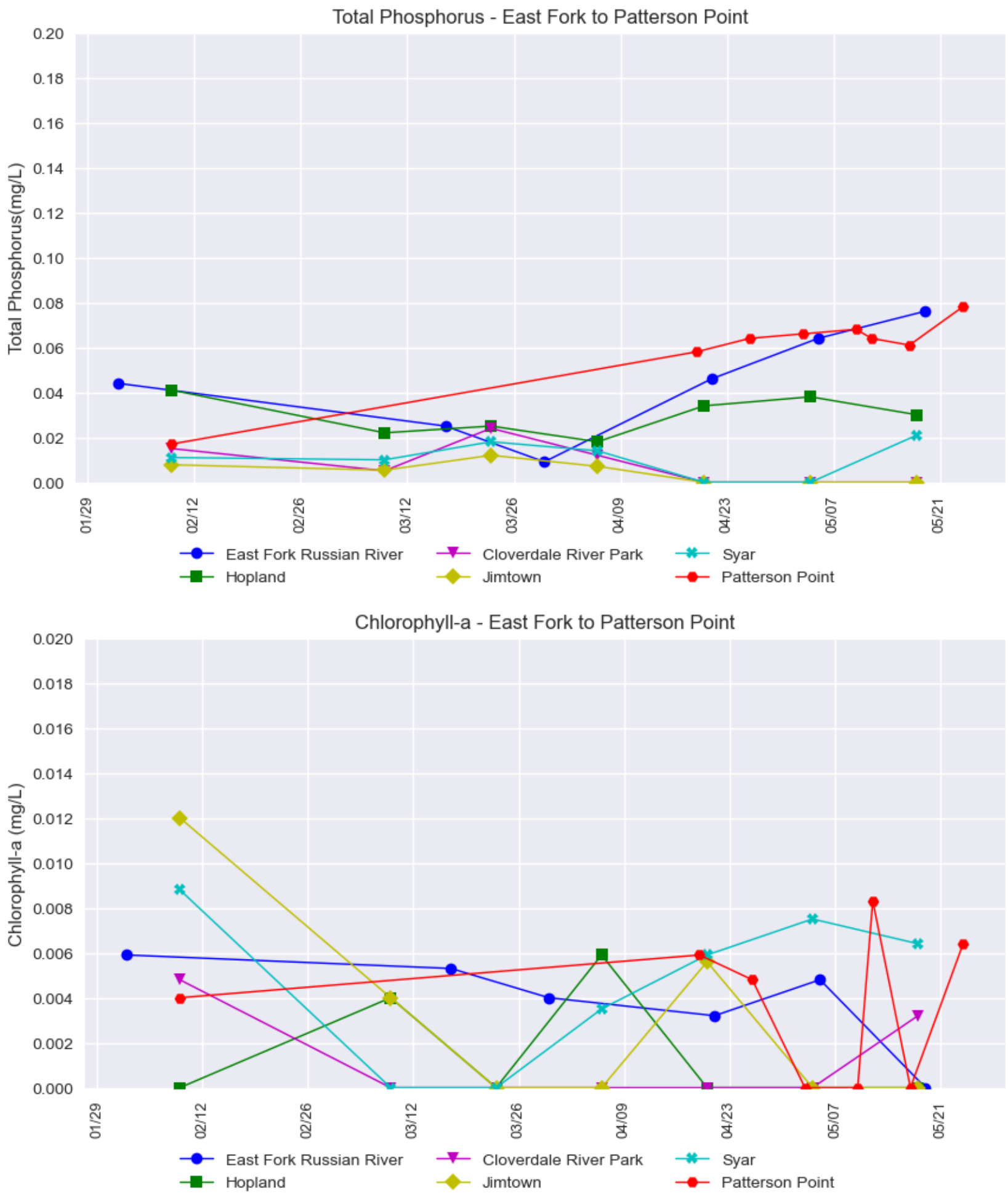
Russian River Water Quality Grab Samples (February 2 - May 19, 2022)

Provisional Data Subject to Revision

East Fork (below Lake Mendocino) to Syar Water Quality



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Russian River Water Quality Grab Samples (May 17 - July 12, 2022)
Provisional Data Subject to Revision

Russian River Estuary Standard Bacterial Indicators

Parameter***	CDPH Guidance*	Date	Patterson Point	Monte Rio	Vacation Beach
Total Coliforms MPN/100 mL	10,000	5/17/2022	2412**	1467**	1664**
		5/24/2022	1413.6	1986.3	2419.6
		6/7/2022	1732.9	1299.7	2419.6
		6/14/2022	2419.6	2419.6	2419.6
		6/21/2022	1439**	2064**	11199**
		6/28/2022	1169**	1918**	8664**
		7/5/2022	1299.7	1986.3	2419.6
		7/12/2022	1860**	1989**	5475**
E. Coli MPN/100 mL	235	5/17/2022	4.1	17.3	11
		5/24/2022	13.5	42	8.6
		6/7/2022	18.7	18.9	45.7
		6/14/2022	19.9	23.8	63
		6/21/2022	46.4	46.2	60.2
		6/28/2022	6.3	22.8	14.5
		7/5/2022	17.1	38.4	6.3
		7/12/2022	35.9	18.7	17.3
Enterococcus MPN/100 mL****	61	5/17/2022	8.6	5.2	85.7
		5/24/2022	6.3	27.5	5.2
		6/7/2022	9.8	29.2	13.4
		6/14/2022	30.9	10.8	16
		6/21/2022	52.1	22.6	146.7
		6/28/2022	6.3	9.8	18.5
		7/5/2022	2	21.3	6.3
		7/12/2022	39.9	49.5	7.4

*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 (May 3 - July 5, 2022)
Provisional Data Subject to Revision

Parameter		MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach
	Temperature	-	°C	5/3/2022	17.7	18.0	17.6
				5/10/2022	17.0	17.3	17.1
				5/12/2022	17.7	17.3	16.2
				5/17/2022	20.1	20.4	20.5
				5/24/2022	22.1	22.0	22.7
				6/7/2022	22.3	22.4	22.9
				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
Nutrients	Ammonia as N	0.1	mg/L	5/3/2022	ND	ND	ND
				5/10/2022	ND	ND	ND
				5/12/2022	ND	ND	ND
				5/17/2022	ND	ND	ND
				5/24/2022	ND	ND	ND
				6/7/2022	ND	ND	ND
				6/14/2022	ND	ND	ND
				6/21/2022	ND	ND	ND
				6/28/2022	ND	ND	ND
				7/5/2022	ND	ND	ND
	Nitrate as N	0.04	mg/L	5/3/2022	ND	ND	0.054
				5/10/2022	0.072	0.053	ND
				5/12/2022	0.095	0.061	0.058
				5/17/2022	0.053	0.053	ND
				5/24/2022	0.054	0.054	0.053
				6/7/2022	0.053	0.055	ND
				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
	Nitrite as N	0.05	mg/L	5/3/2022	ND	ND	ND
				5/10/2022	ND	ND	ND
				5/12/2022	ND	ND	ND
				5/17/2022	ND	ND	ND
				5/24/2022	ND	ND	ND
				6/7/2022	ND	ND	ND
				6/14/2022	ND	ND	ND
				6/21/2022	ND	ND	ND
				6/28/2022	ND	ND	ND
				7/5/2022	ND	ND	ND
	Total Organic Nitrogen as N	0.1	mg/L	5/3/2022	ND	ND	ND
				5/10/2022	ND	ND	ND
				5/12/2022	ND	ND	ND
				5/17/2022	ND	ND	ND
				5/24/2022	ND	ND	ND
				6/7/2022	ND	ND	ND
				6/14/2022	0.24	0.20	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
Nutrients	Total Kjeldahl Nitrogen	0.2	mg/L	5/3/2022	ND	ND	ND
				5/10/2022	ND	ND	ND
				5/12/2022	ND	ND	ND
				5/17/2022	ND	ND	ND
				5/24/2022	ND	ND	ND
				6/7/2022	ND	ND	ND
				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
	Total Phosphorus	0.02	mg/L	5/3/2022	0.066	0.070	0.062
				5/10/2022	0.068	0.065	0.060
				5/12/2022	0.064	0.059	0.053
				5/17/2022	0.061	0.065	0.063
				5/24/2022	0.078	0.079	0.070
				6/7/2022	0.070	0.068	0.071
				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
	Total Orthophosphate	0.03	mg/L	5/3/2022	0.15	0.15	0.13
				5/10/2022	0.16	0.15	0.12
				5/12/2022	0.14	0.13	0.11
				5/17/2022	0.12	0.12	0.17
				5/24/2022	0.18	0.17	0.14
				6/7/2022	0.15	0.15	0.14
				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

Russian River Water Quality Grab Samples (May 3 - July 5, 2022)
Provisional Data Subject to Revision

Parameter		MDL*	Units	Date	Patterson Point	Monte Rio	Vacation Beach
Chlorophyll	Chlorophyll A	0.003	mg/L	5/3/2022	ND	0.0035	ND
				5/10/2022	ND	ND	ND
				5/12/2022	0.0083	ND	ND
				5/17/2022	ND	ND	0.0043
				5/24/2022	0.0064	0.0040	0.0051
				6/7/2022	0.0043	ND	0.0035
				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
Carbon	Total Organic Carbon	0.3	mg/L	5/3/2022	2.85	2.83	2.72
				5/10/2022	2.62	2.44	2.29
				5/12/2022	2.47	2.35	2.28
				5/17/2022	2.20	2.26	2.34
				5/24/2022	2.30	2.33	2.13
				6/7/2022	1.89	1.92	1.94
				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
	Dissolved Organic Carbon	0.2	mg/L	5/3/2022	2.20	2.31	2.26
				5/10/2022	2.16	2.02	1.88
				5/12/2022	1.91	1.87	1.77
				5/17/2022	1.75	1.78	1.80
				5/24/2022	1.94	1.93	1.84
				6/7/2022	1.58	1.61	1.64
				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
Solids	Turbidity	0.1	NTU	5/3/2022	1.6	1.9	1.4
				5/10/2022	1.1	1.2	2.2
				5/12/2022	1.2	1.6	2.6
				5/17/2022	2.0	1.4	1.6
				5/24/2022	1.2	1.6	1.5
				6/7/2022	1.5	1.9	1.9
				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
	TDS	10	mg/L	5/3/2022	180	180	170
				5/10/2022	170	200	170
				5/12/2022	170	180	180
				5/17/2022	180	190	170
				5/24/2022	180	200	190
				6/7/2022	190	190	180
				6/14/2022	170	160	160
				6/21/2022	150	180	160
				6/28/2022	170	200	180
				7/5/2022	160	160	160