



State Water Resources Control Board
 Temporary Urgency Change Orders (12/27/2023 & 6/6/2024)
 Russian River Hydrologic & Water Quality Report
 July 12, 2024 - July 18, 2024

Prepared as a requirement of the Orders approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

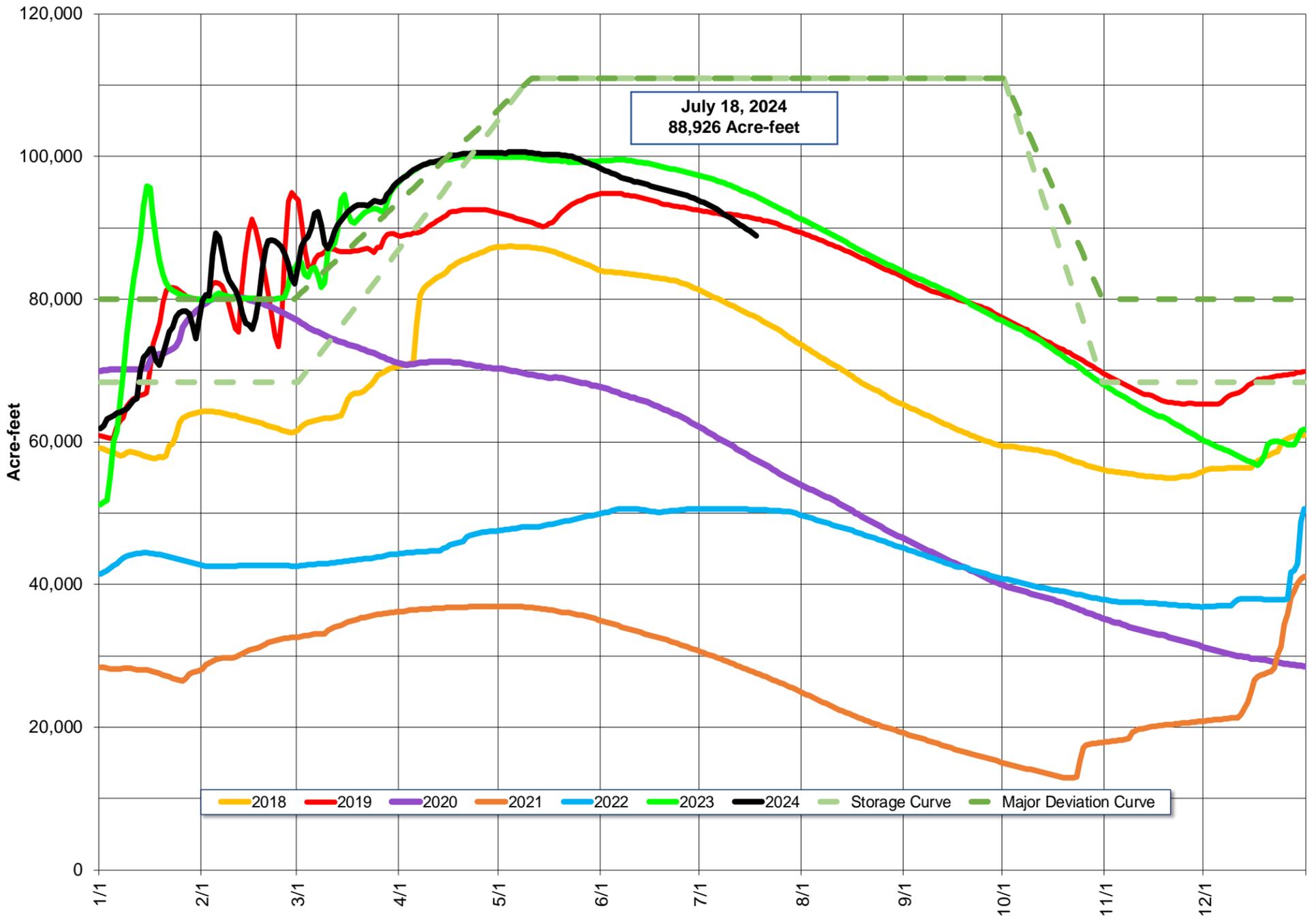
Instream Flow Requirements as of July 18, 2024

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	110	125
D-1610: Normal Condition	Dry Creek	80	-
Modified Per Order: Normal Condition	Lower Russian River	60	70

Upper and Lower Russian River are based on criteria as established in the Order issued 6/6/2024.

Lake Mendocino

Lake Mendocino Storage 2018 - 2024 and Storage Curve



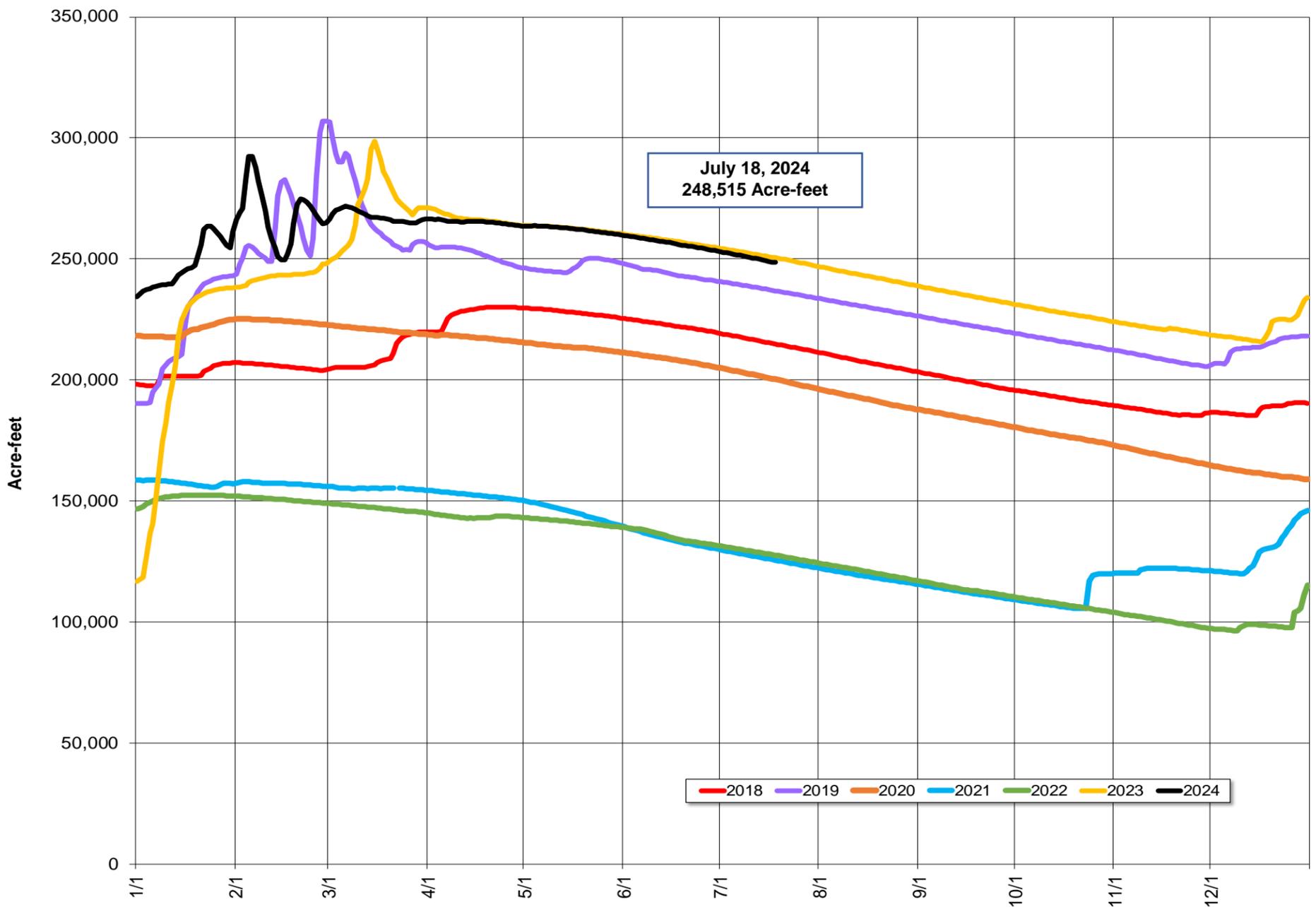
Storage (acre-feet)	July 18, 2024	88,926	
Change in Storage (acre-feet)	Last 30 days	-6,701	-223
	Last 7 days	-1,862	-266
Daily Inflow (cfs)	Last 7 days	Min	43
		Max	73
		Mean	56
Release (cfs)	Last 7 days	Min	180
		Max	203
		Mean	193

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	July 18, 2024	248,515	
Change in Storage (acre-feet)	Last 30 days	-7,507	-250
	Last 7 days	-1,896	-271
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	15
		Mean	5
Release (cfs)	Last 7 days	Min	111
		Max	112
		Mean	111

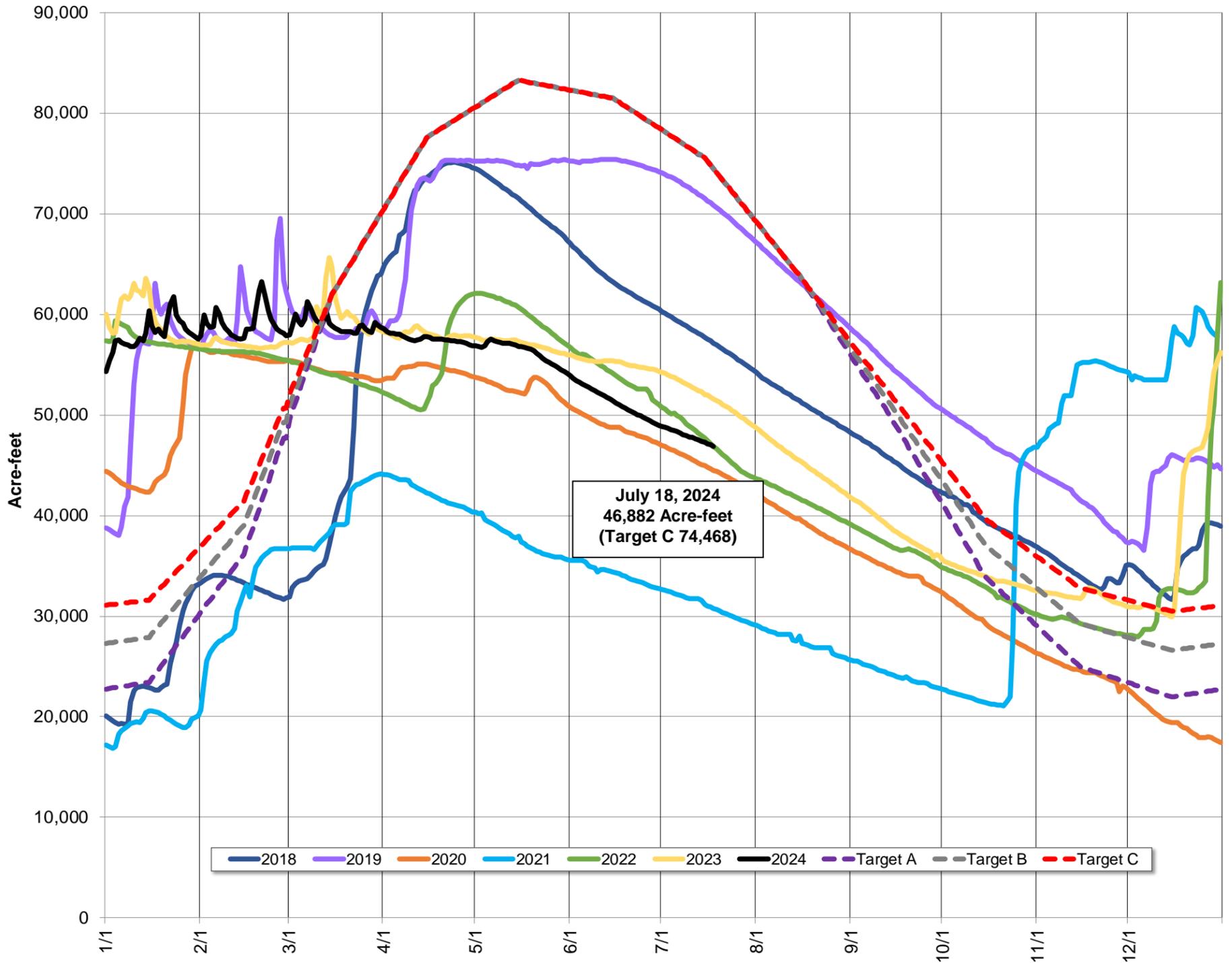
Potter Valley Project

PVP Diversion (cfs)	July 18, 2024	59
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - July 18, 2024	486,156	1,665
	Last 7 days	260	37

*Inflow calculation based on criteria established in D1610

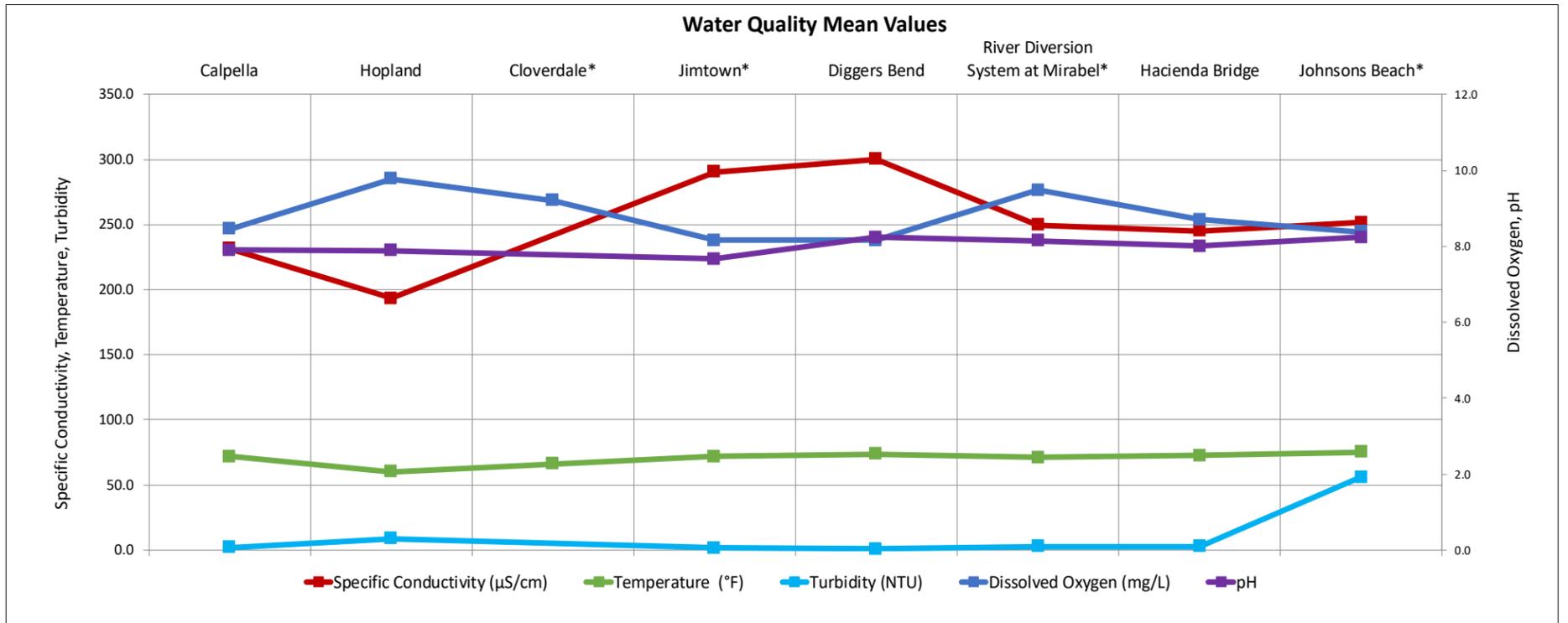
Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios



Russian River Flows (July 12, 2024 - July 18, 2024)

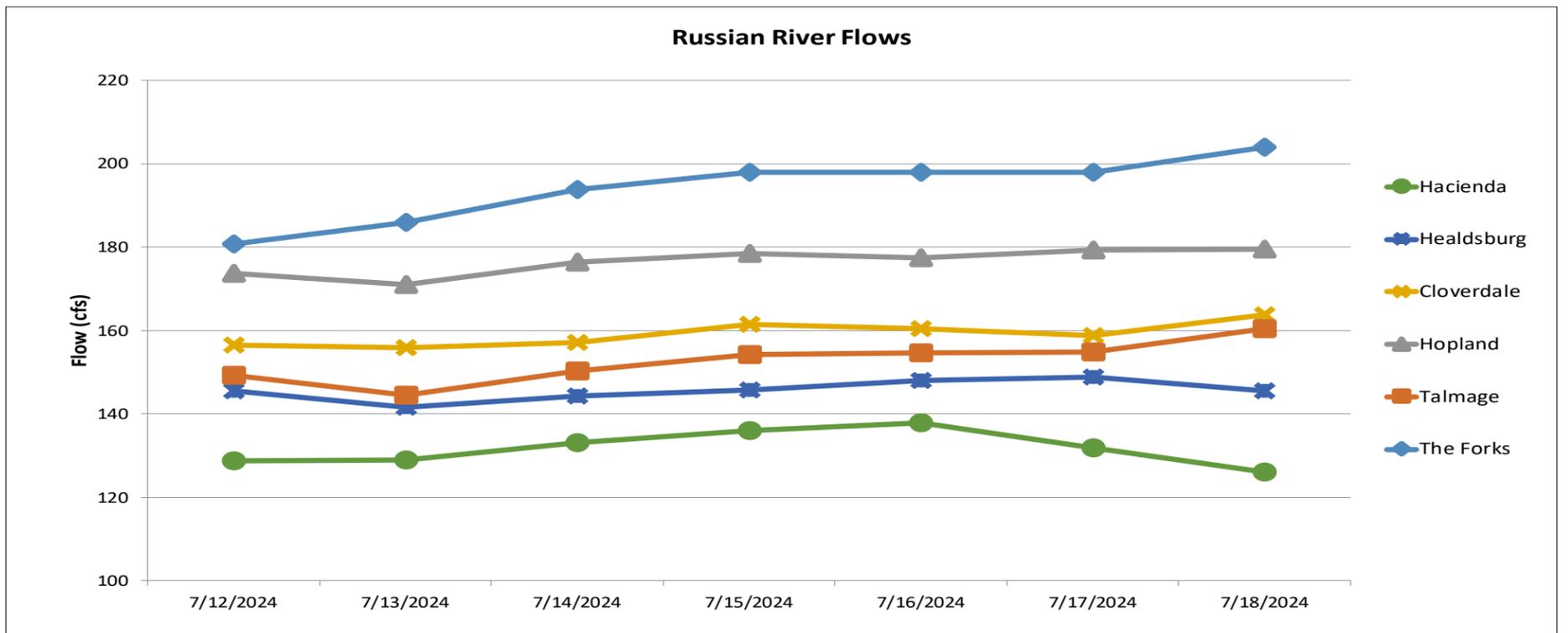
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	66.6	57.4	62.6	66.9	68.2	68.8	67.6	71.6
	Max	76.3	62.2	71.1	78.8	80.6	74.3	78.4	79.2
	Mean	71.7	60.0	66.0	71.9	73.5	70.9	72.5	75.2
Specific Conductivity (µS/cm)	Min	214.0	192.0		287.0	296.0	246	240.0	135.2
	Max	248.0	195.0		294.0	305.0	262	253.0	269.9
	Mean	231.6	193.4		290.6	300.3	250	245.0	251.7
Dissolved Oxygen (mg/L)	Min	7.7	8.6	7.8	6.3	6.4	8.1	7.0	6.4
	Max	9.6	11.3	11.9	10.4	9.9	10.9	10.1	9.2
	Mean	8.5	9.8	9.2	8.2	8.2	9.5	8.7	8.4
Dissolved Oxygen (% Saturation)	Min	88.7	85.9	83.9	72.1	73.9	72.1	80.7	72.1
	Max	111.4	115.0	130.6	123.3	118.1	123.3	117.5	123.3
	Mean	96.8	98.1	99.2	94.0	95.4	93.9	100.6	94.0
pH	Min	7.7	7.6		7.4	8.0	8.0	7.7	8.0
	Max	8.2	8.2		8.0	8.5	8.4	8.2	8.4
	Mean	7.9	7.9		7.7	8.2	8.2	8.0	8.2
Turbidity (NTU)	Min	0.9	7.9		0.7	0.3	1.4	2.0	2
	Max	3.8	11.5		2.6	1.7	23.0	4.5	751
	Mean	1.9	8.8		1.6	0.8	2.6	2.8	56

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jul 12, 2024	Jul 13, 2024	Jul 14, 2024	Jul 15, 2024	Jul 16, 2024	Jul 17, 2024	Jul 18, 2024
The Forks*	181	186	194	198	198	198	204
Talmage USGS 11462080	149	145	150	154	155	155	160
Hopland USGS 11462500	174	171	176	178	178	179	179
Cloverdale USGS 11463000	156	156	157	162	160	159	164
Healdsburg USGS 11464000	146	142	144	146	148	149	146
Hacienda USGS 11467000	129	129	133	136	138	132	126

*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)

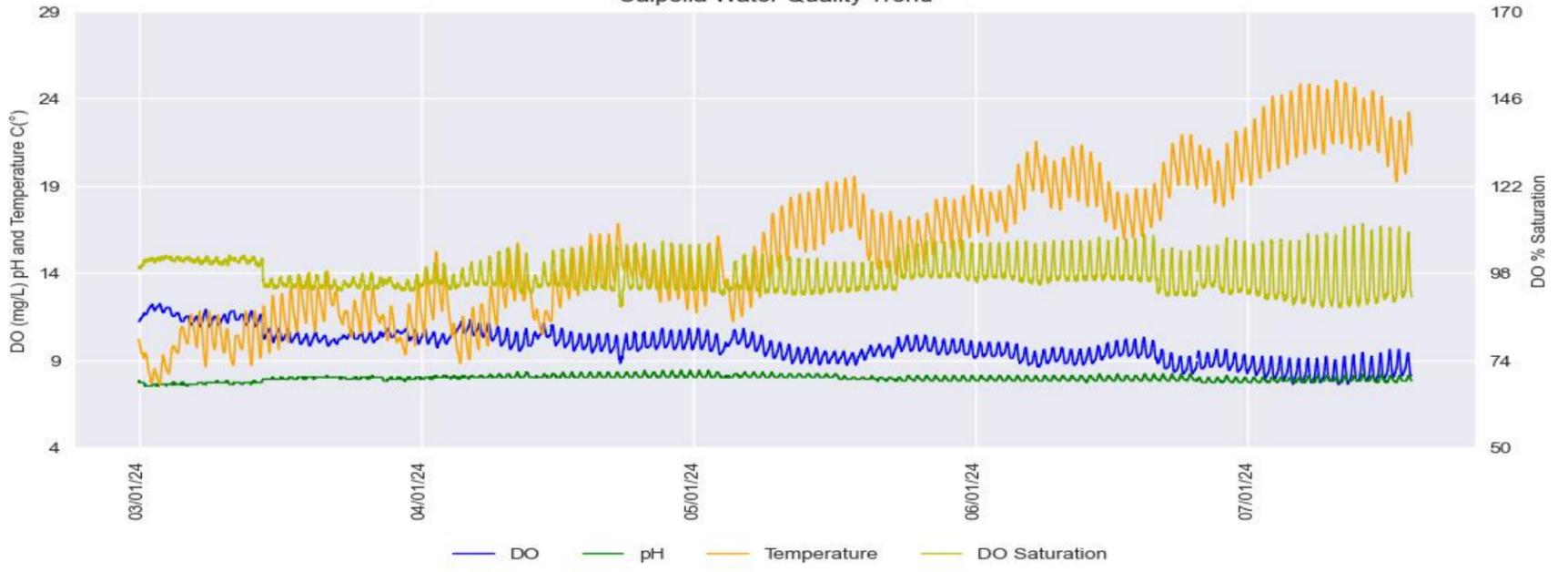


Russian River Water Quality March 1, 2024 – July 18, 2024

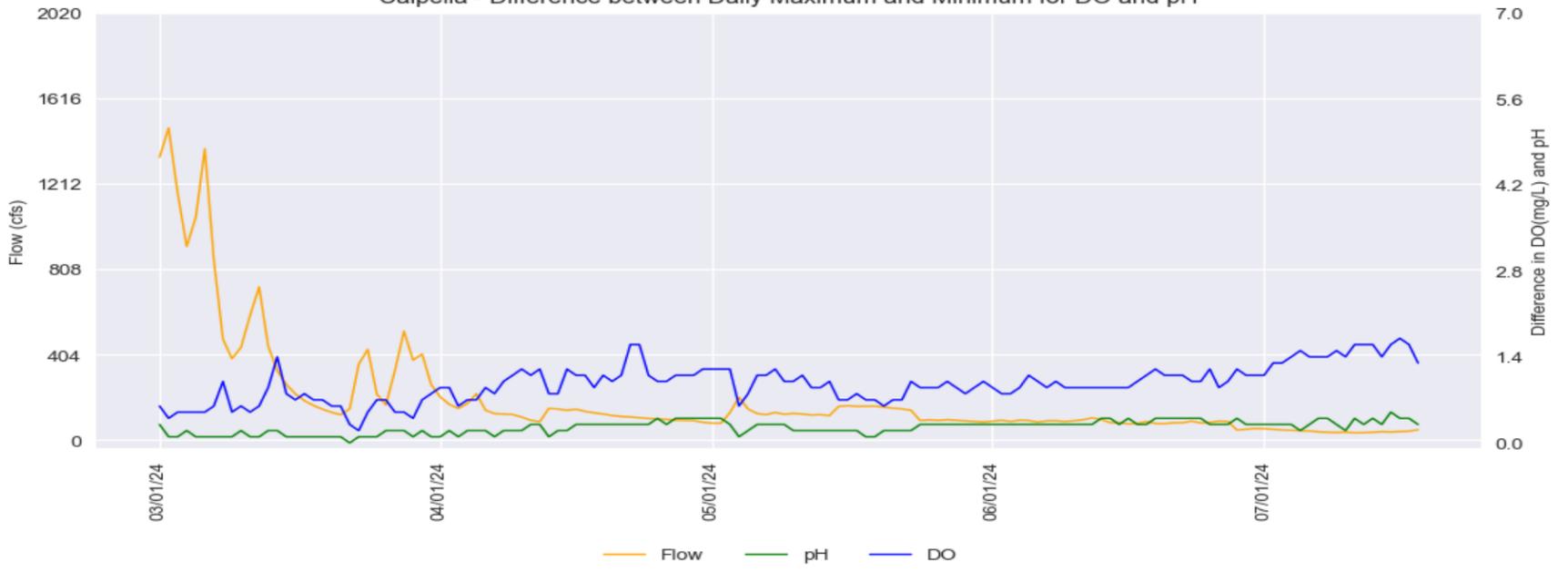
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

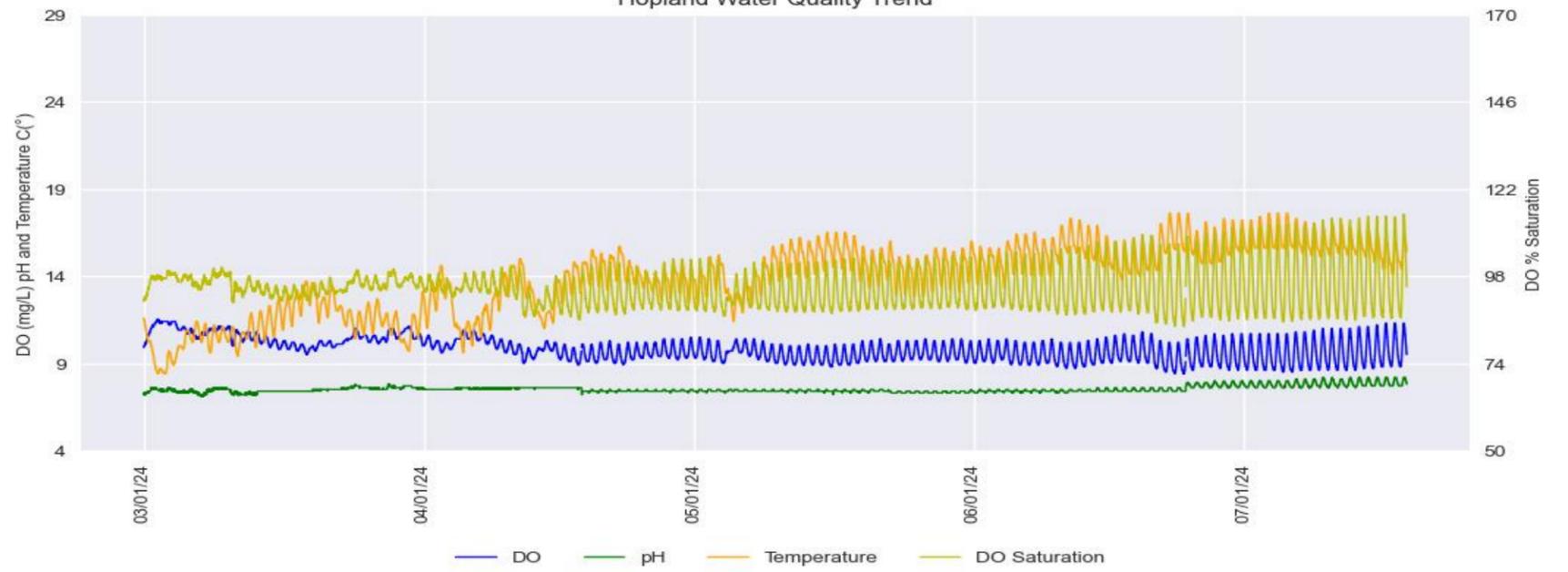


Calpella - Difference between Daily Maximum and Minimum for DO and pH

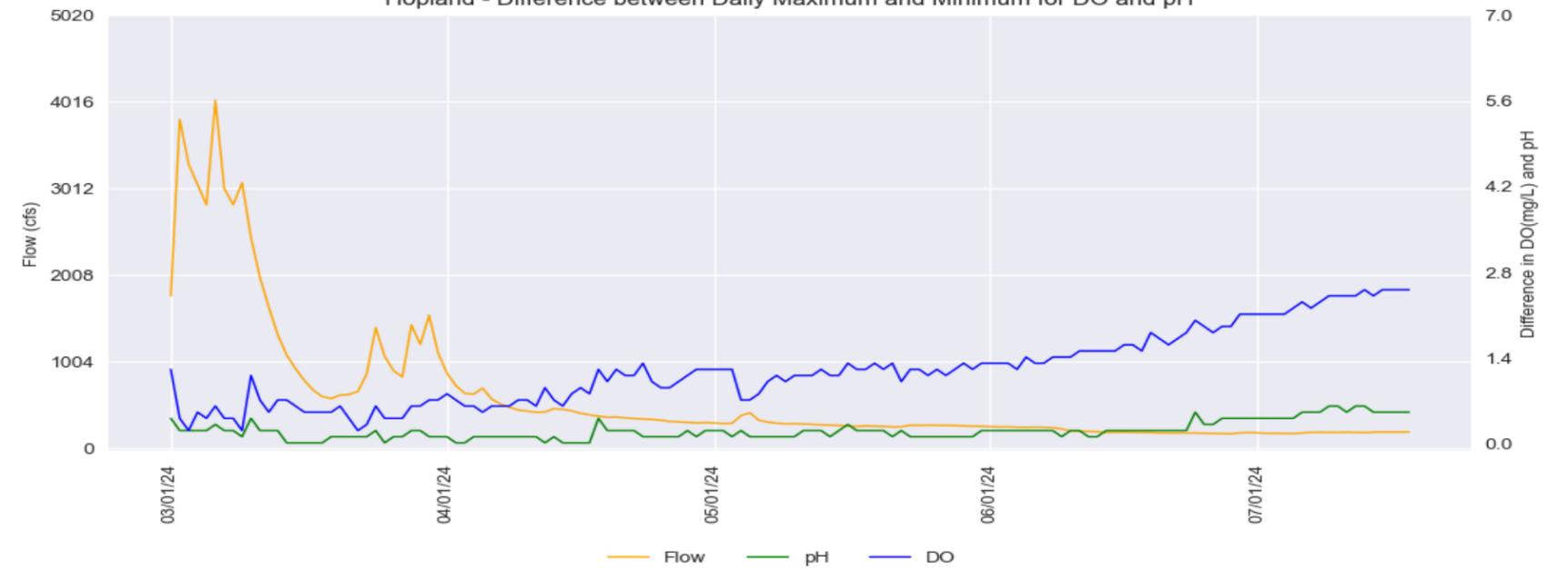


Hopland

Hopland Water Quality Trend



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

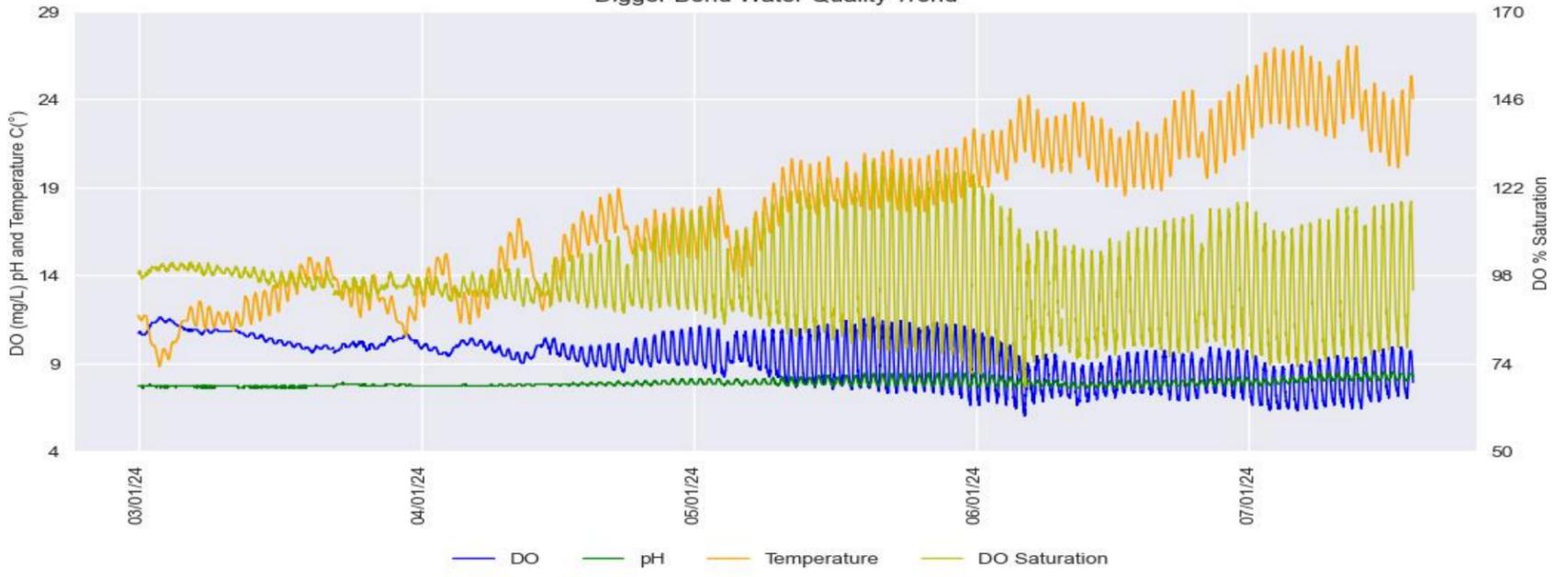


Russian River Water Quality March 1, 2024 – July 18, 2024

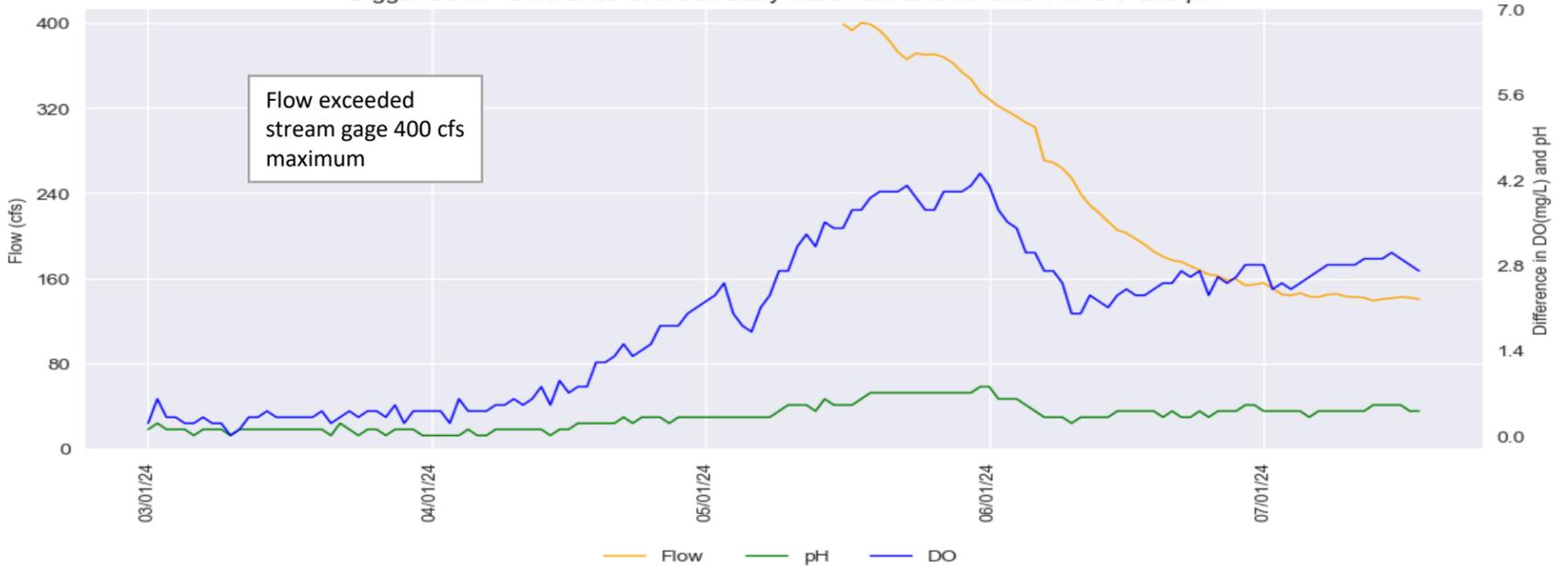
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Digger Bend

Digger Bend Water Quality Trend

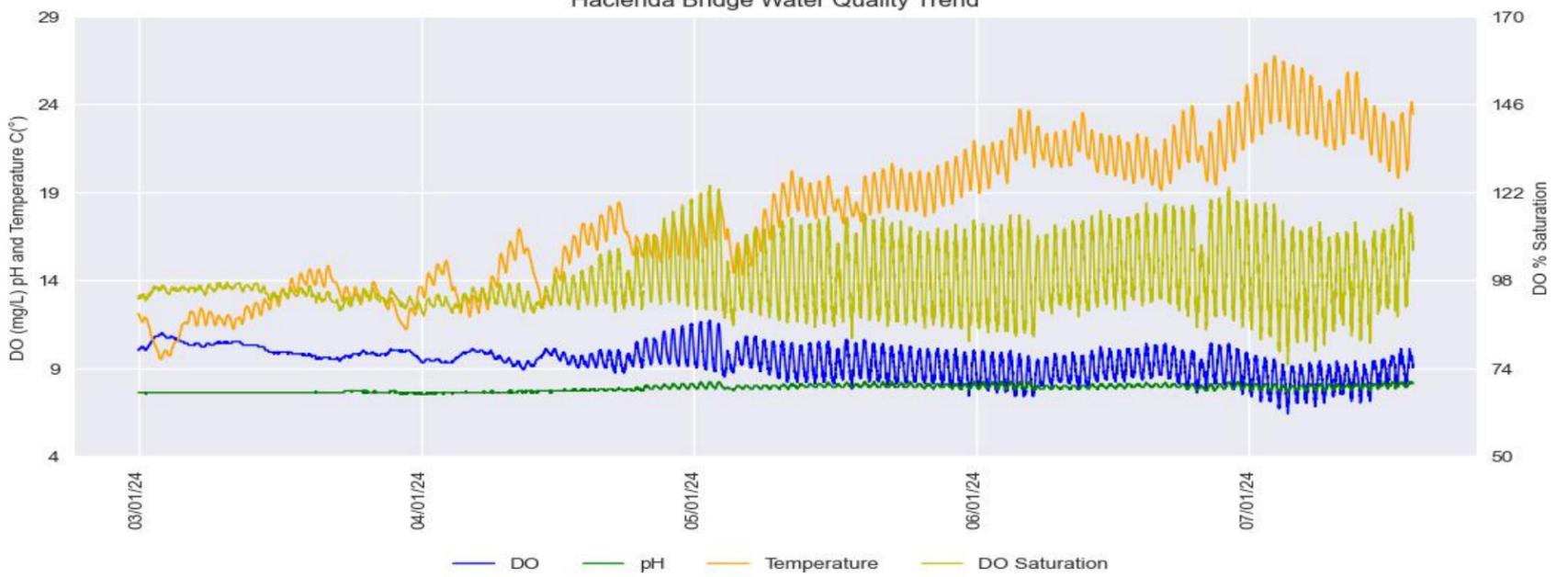


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

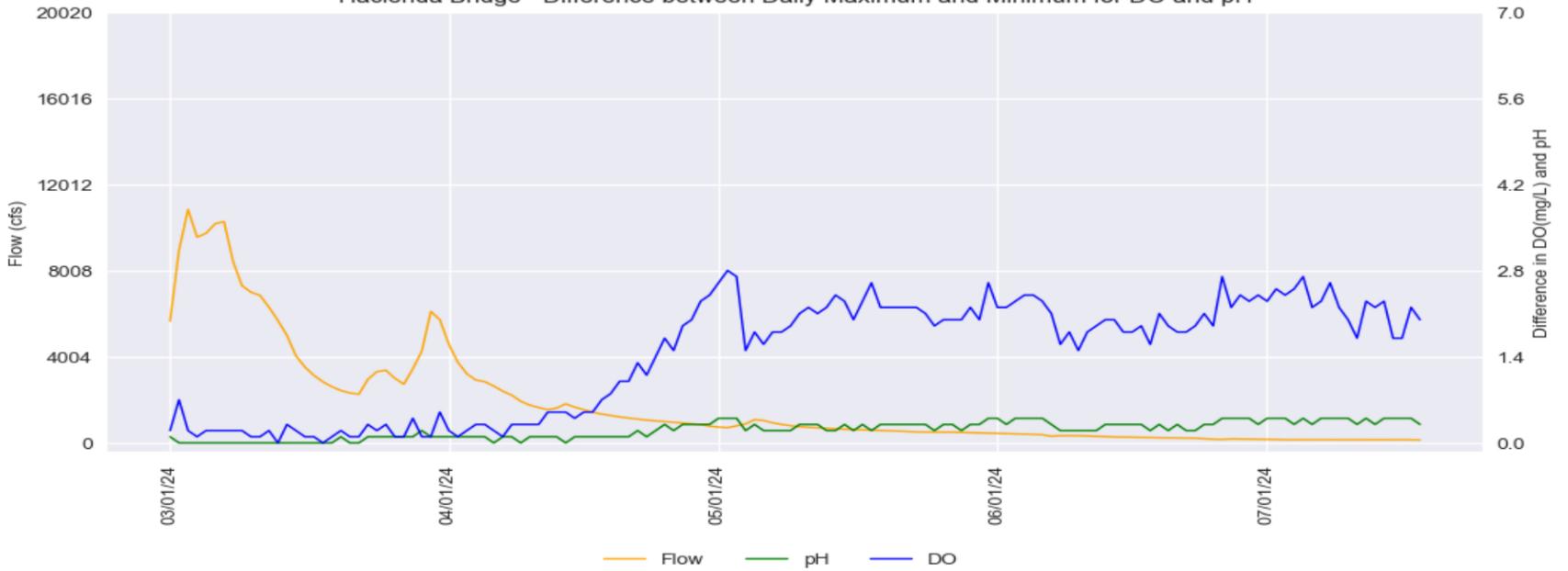


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

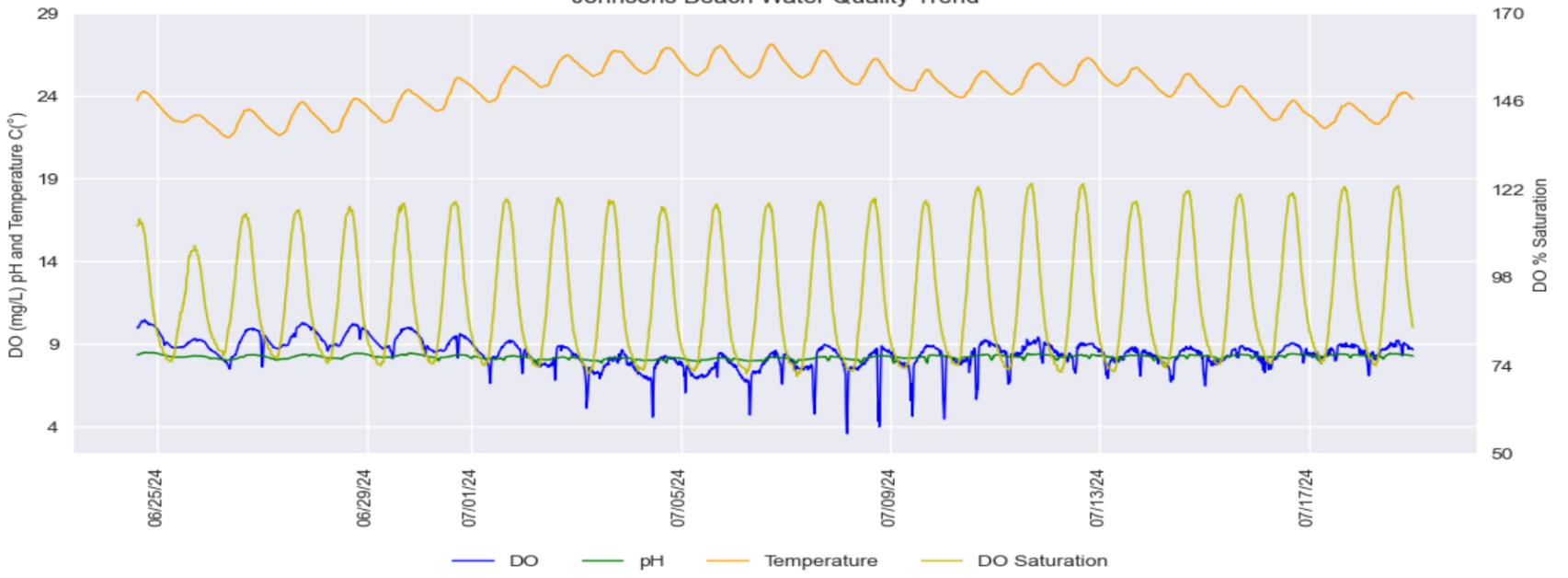


Russian River Water Quality June 24, 2024 – July 18, 2024

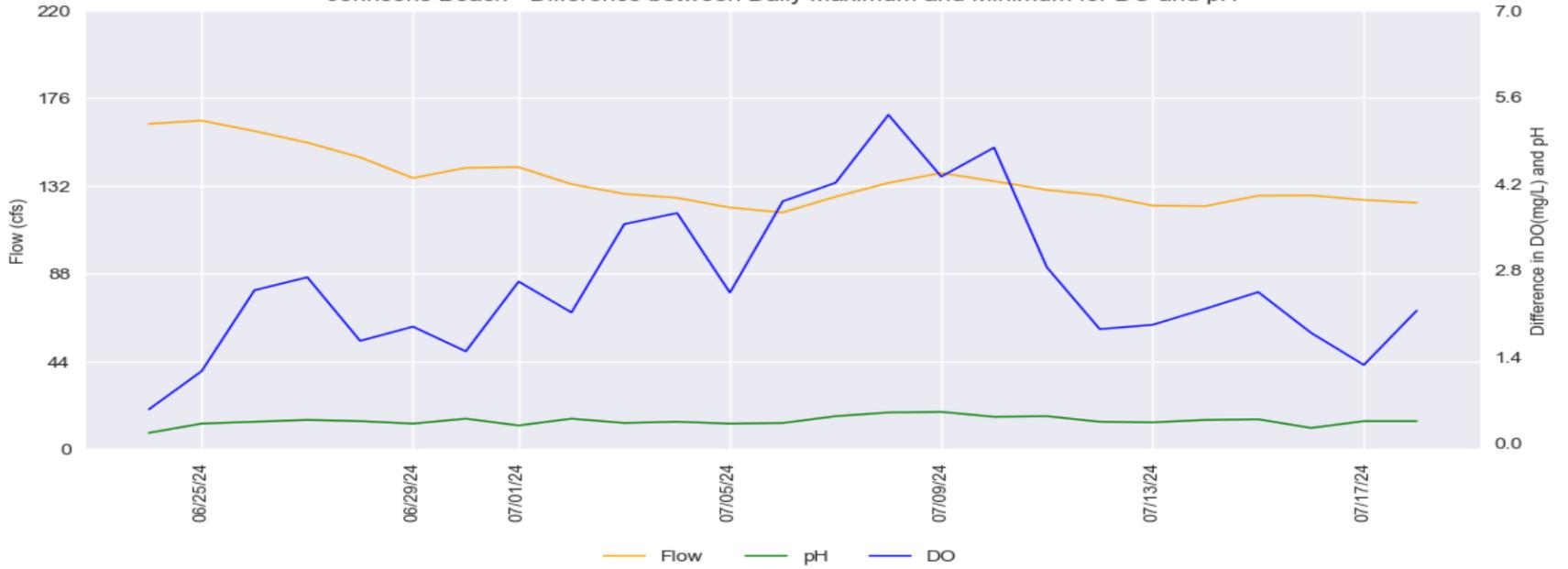
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Johnsons Beach

Johnsons Beach Water Quality Trend

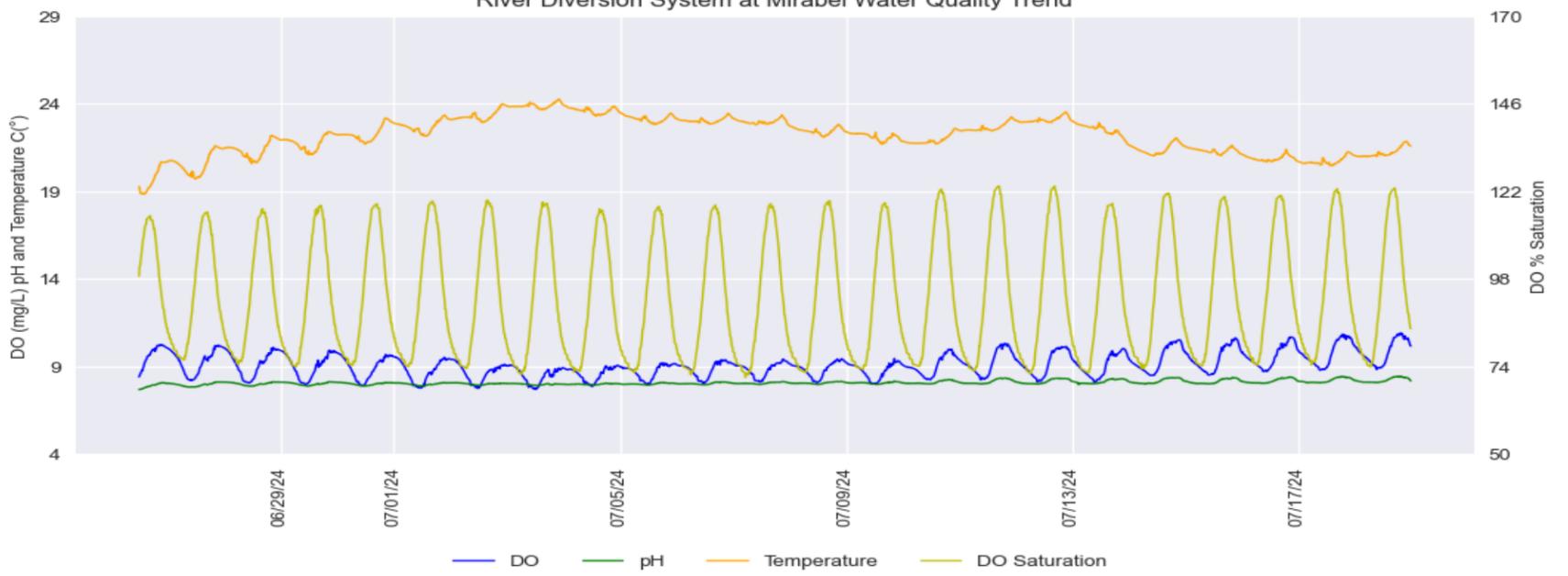


Johnsons Beach - Difference between Daily Maximum and Minimum for DO and pH

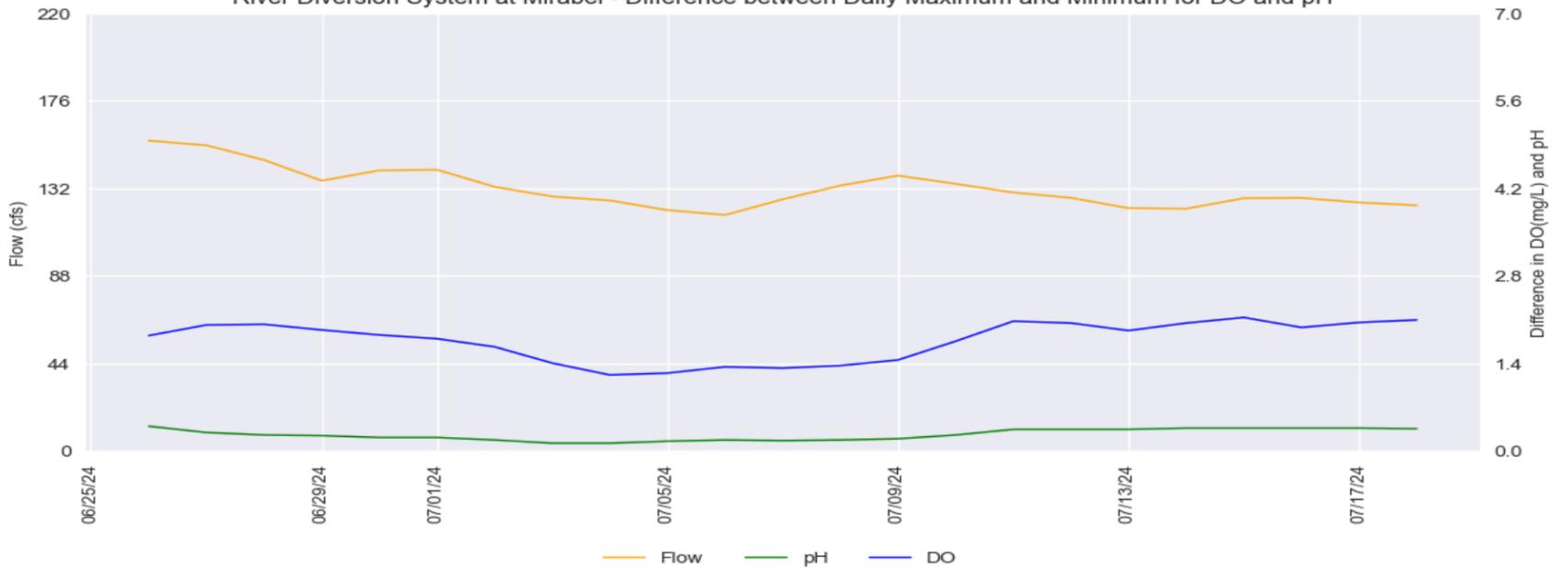


River Diversion System at Mirabel

River Diversion System at Mirabel Water Quality Trend



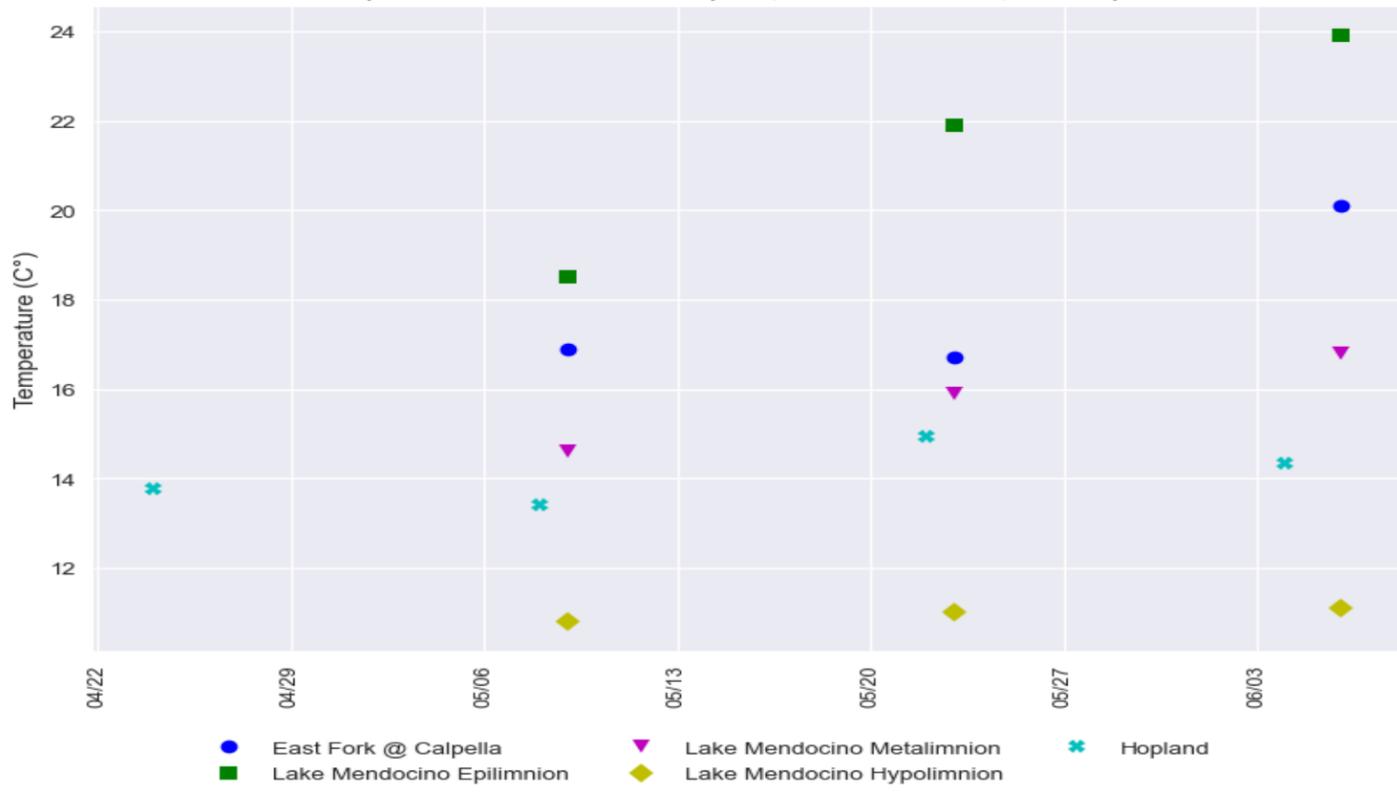
River Diversion System at Mirabel - Difference between Daily Maximum and Minimum for DO and pH



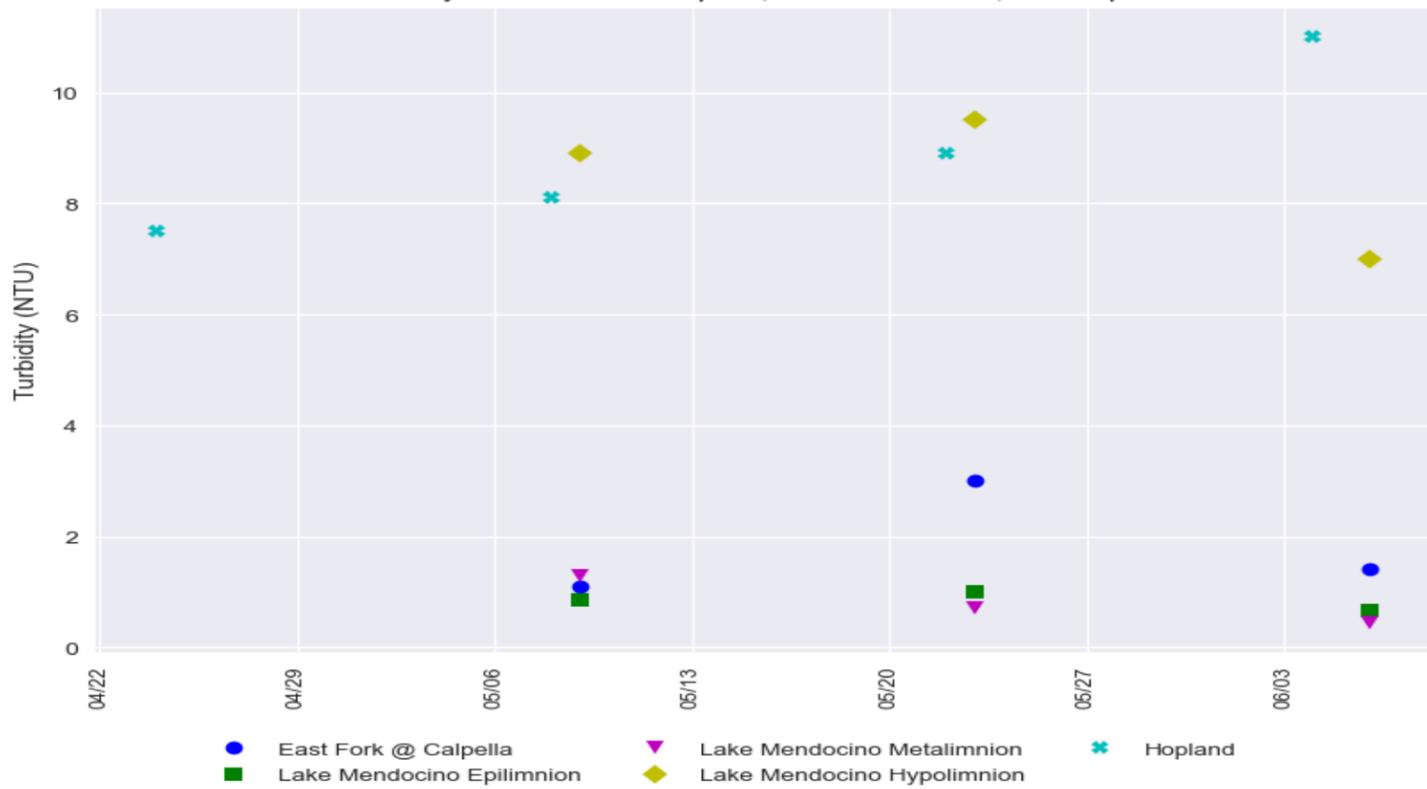
Russian River Water Quality Grab Samples

Provisional Data Subject to Revision

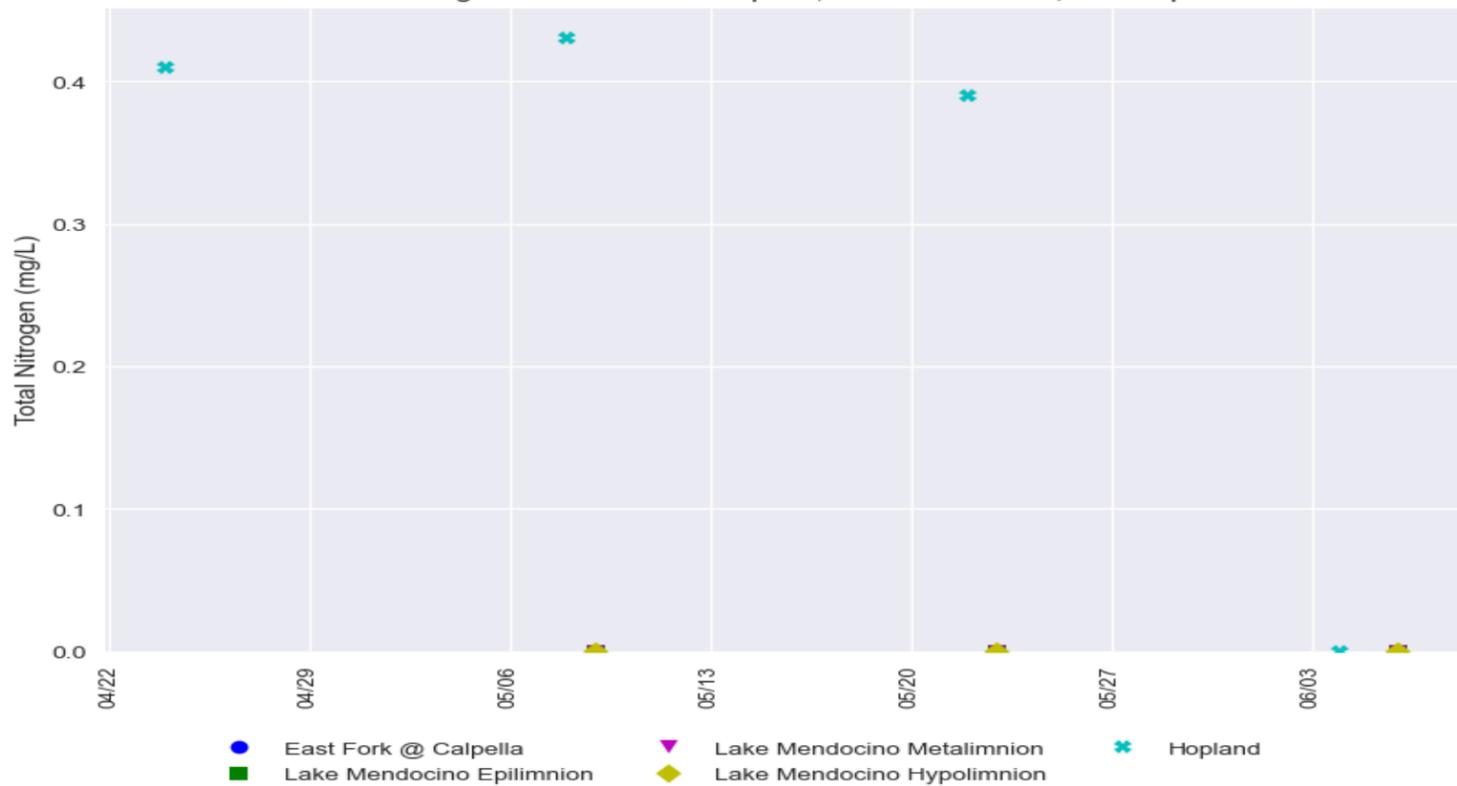
Temperature - East Fork at Calpella, Lake Mendocino, and Hopland



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

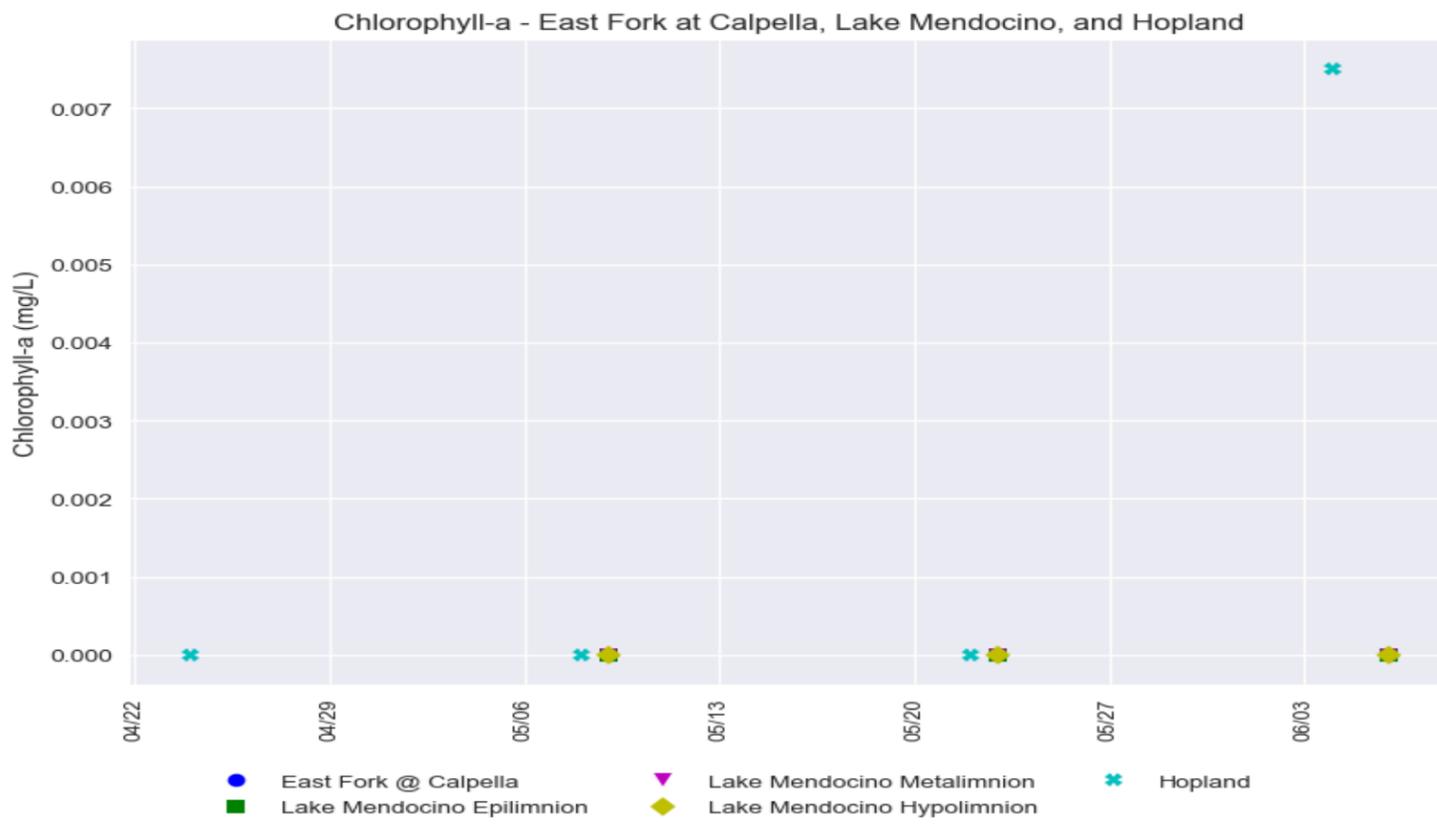
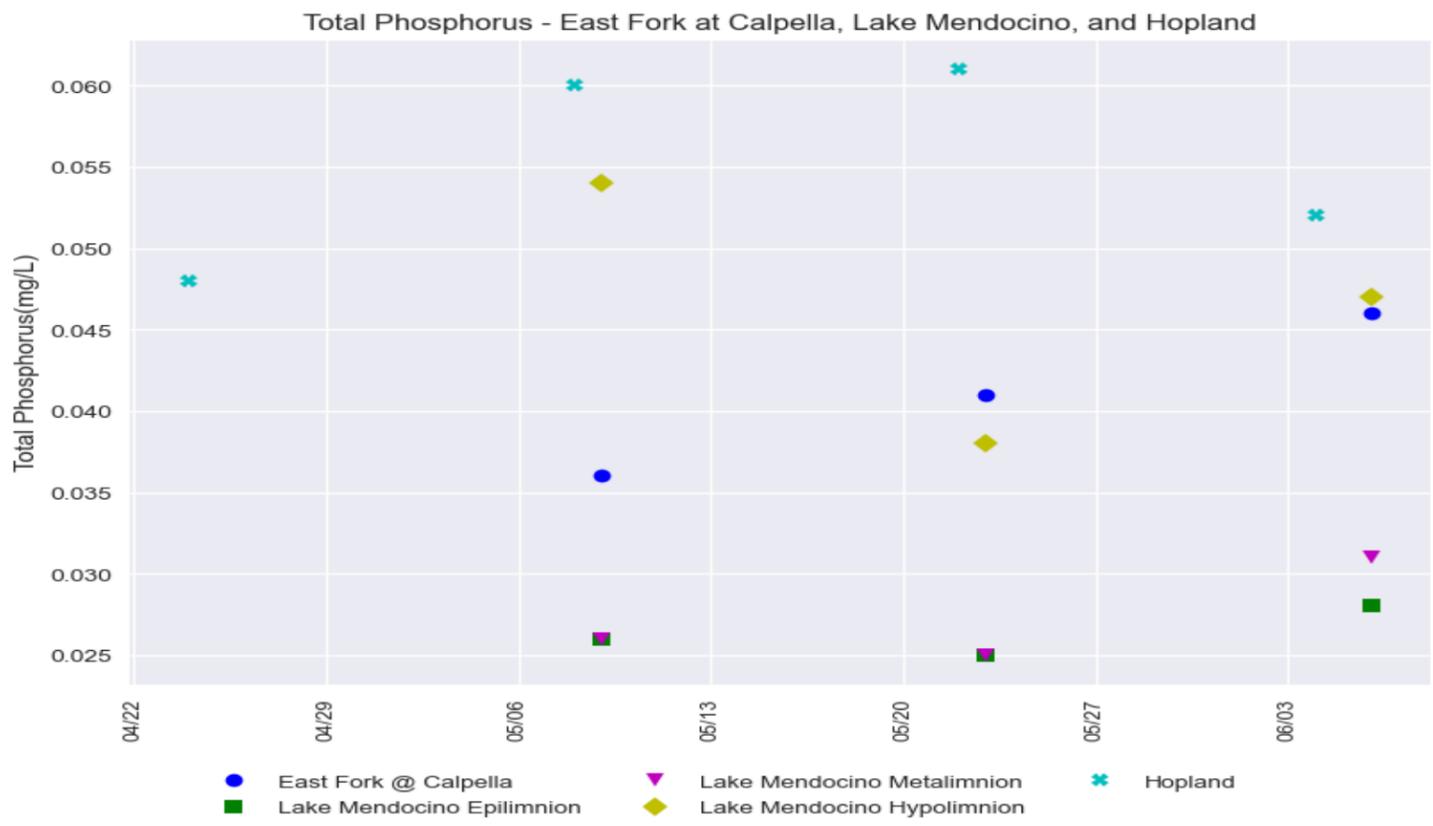


Total Nitrogen - East Fork at Calpella, Lake Mendocino, and Hopland



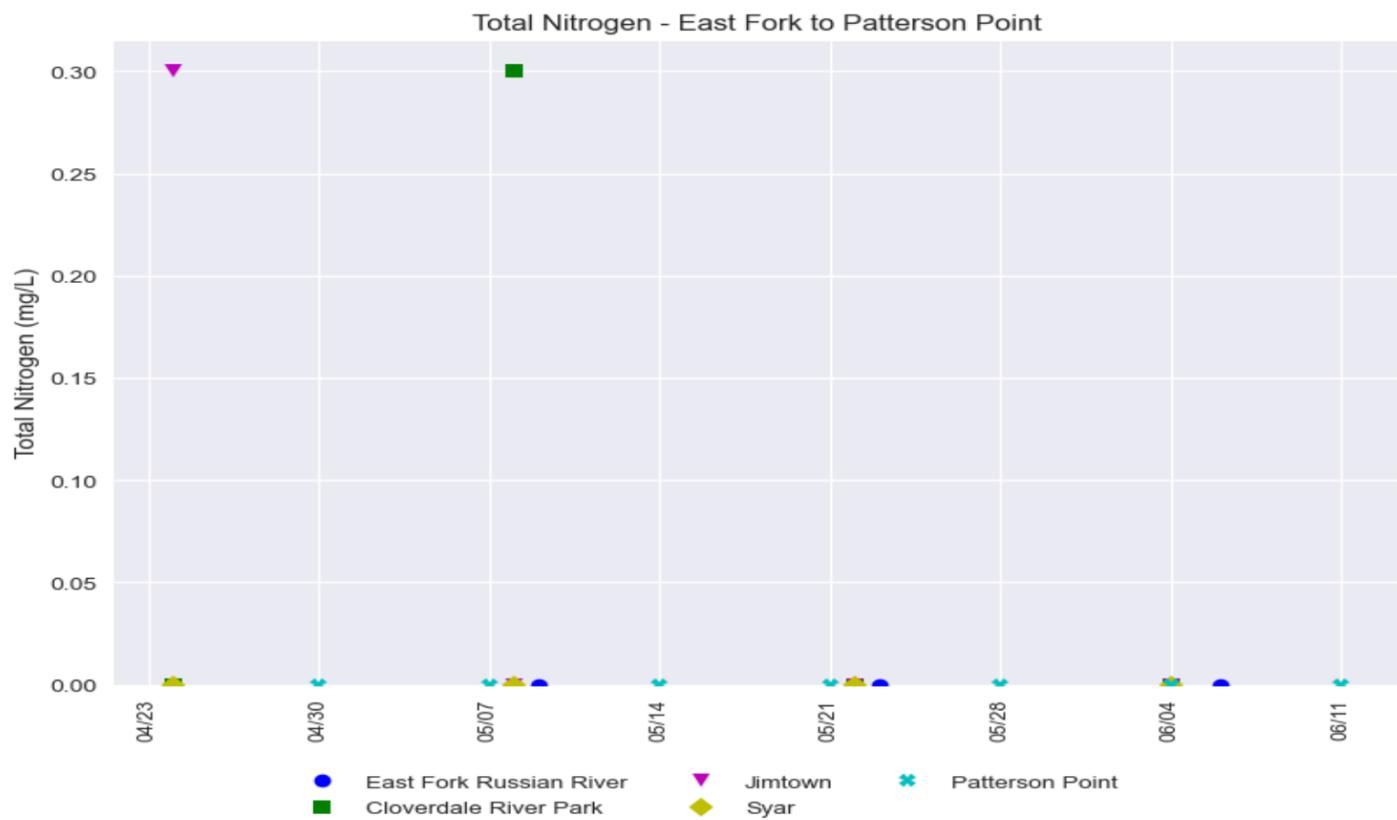
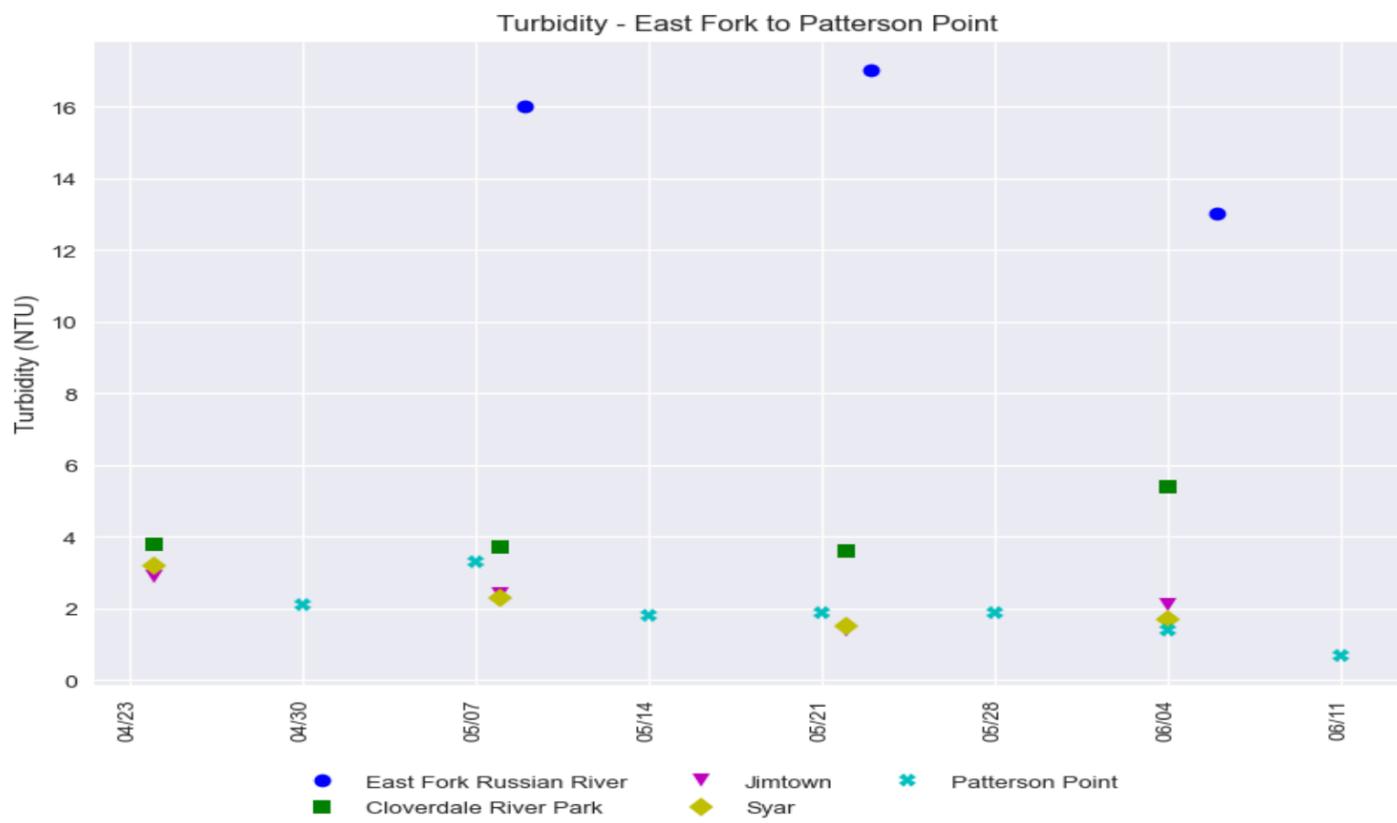
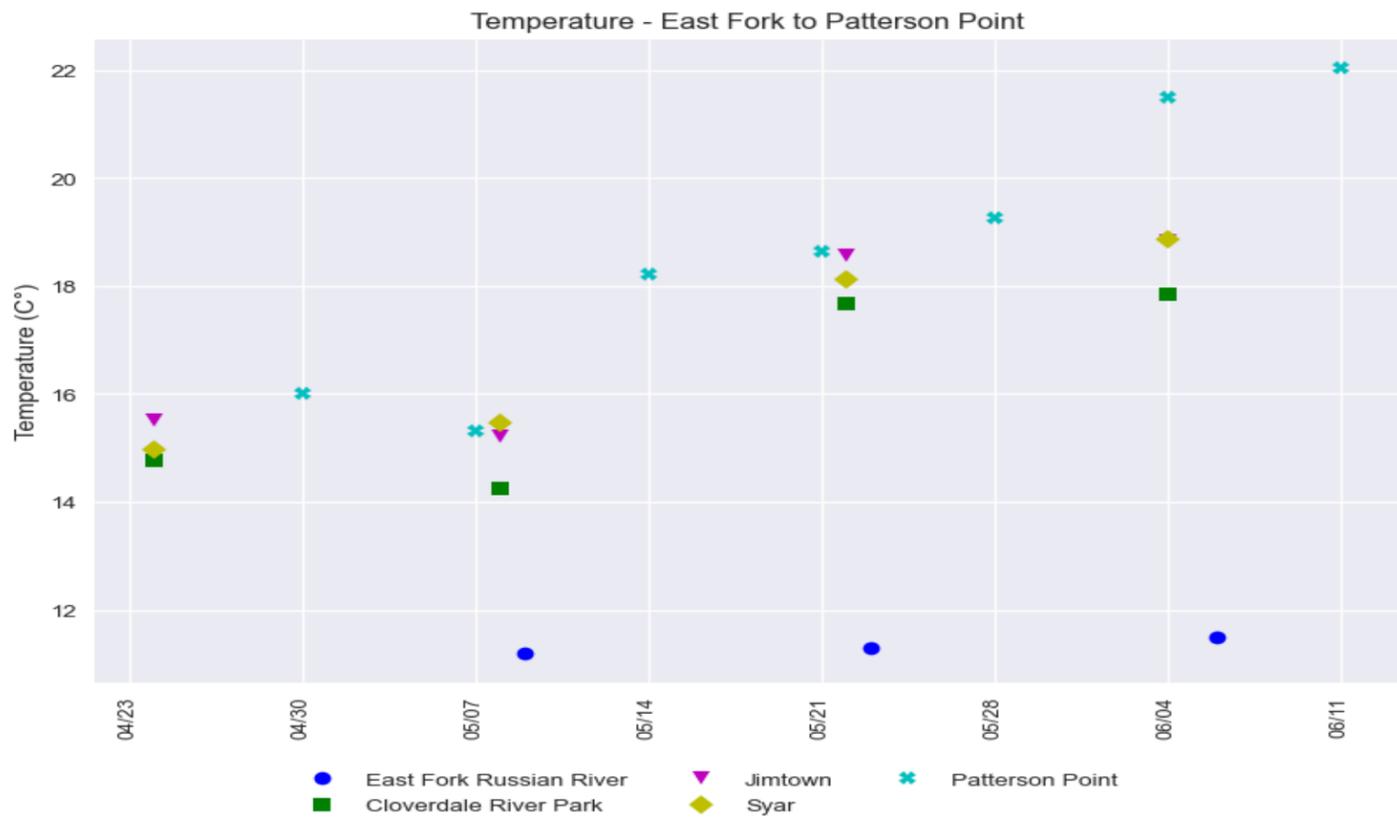
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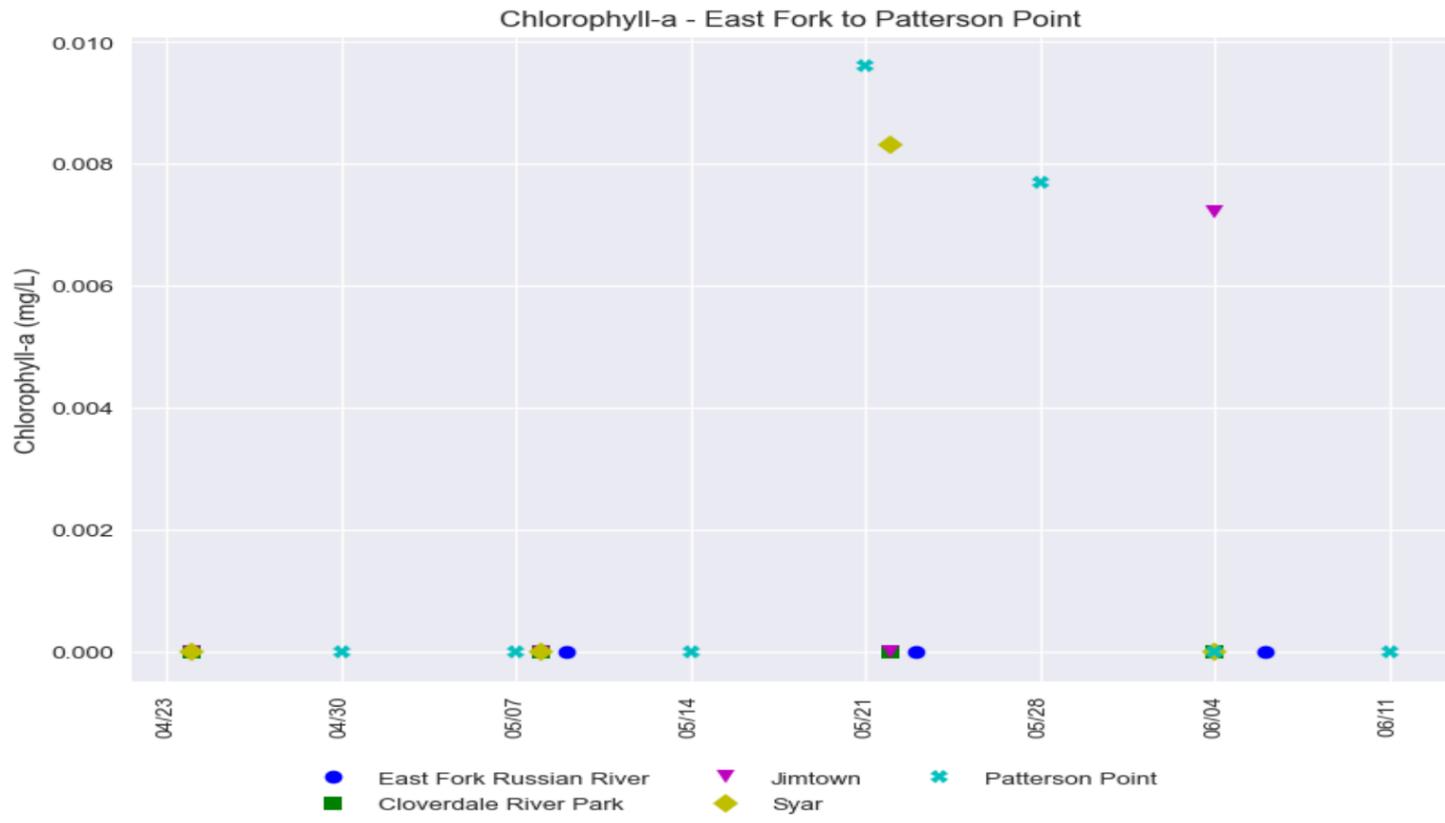
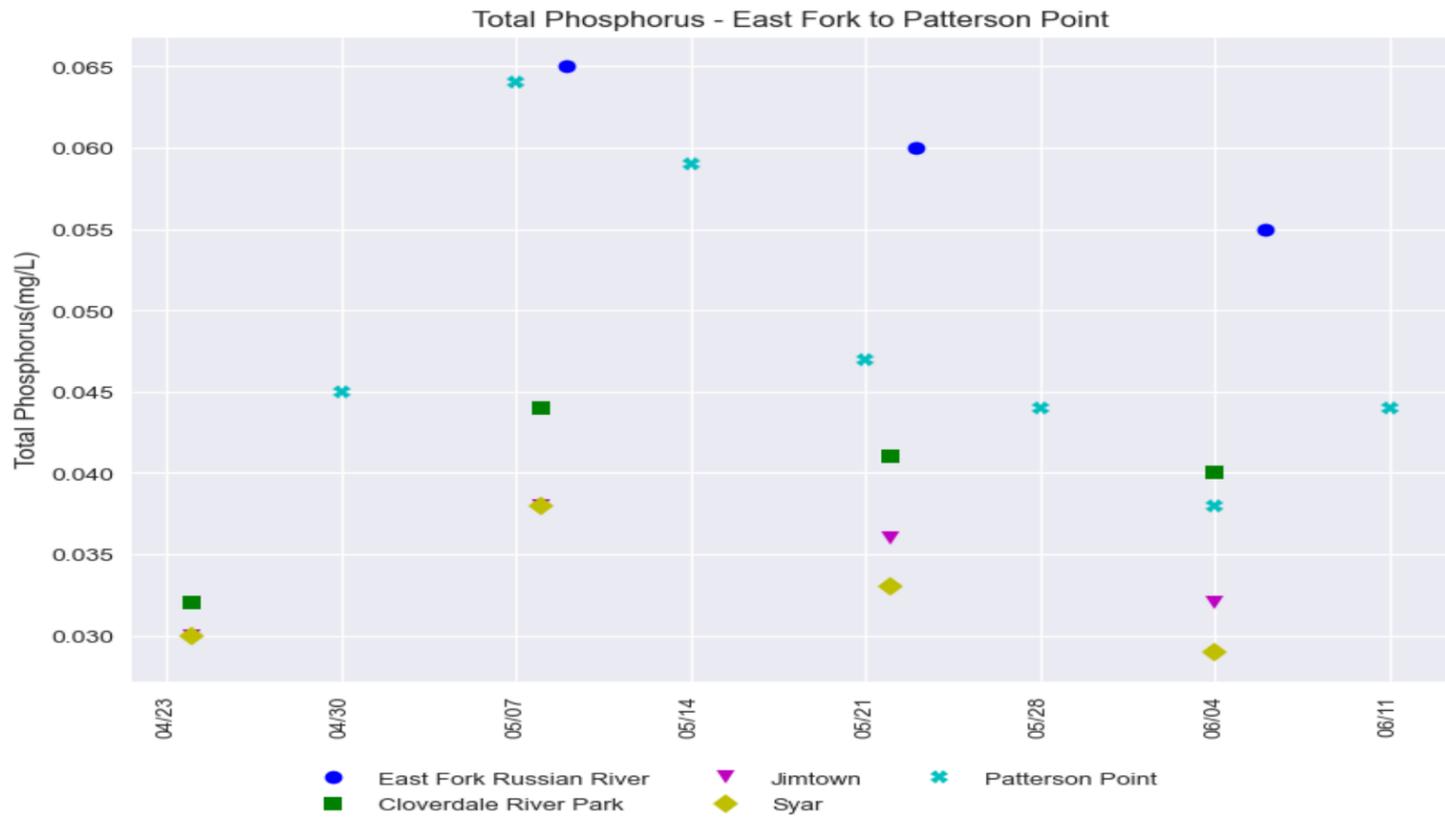
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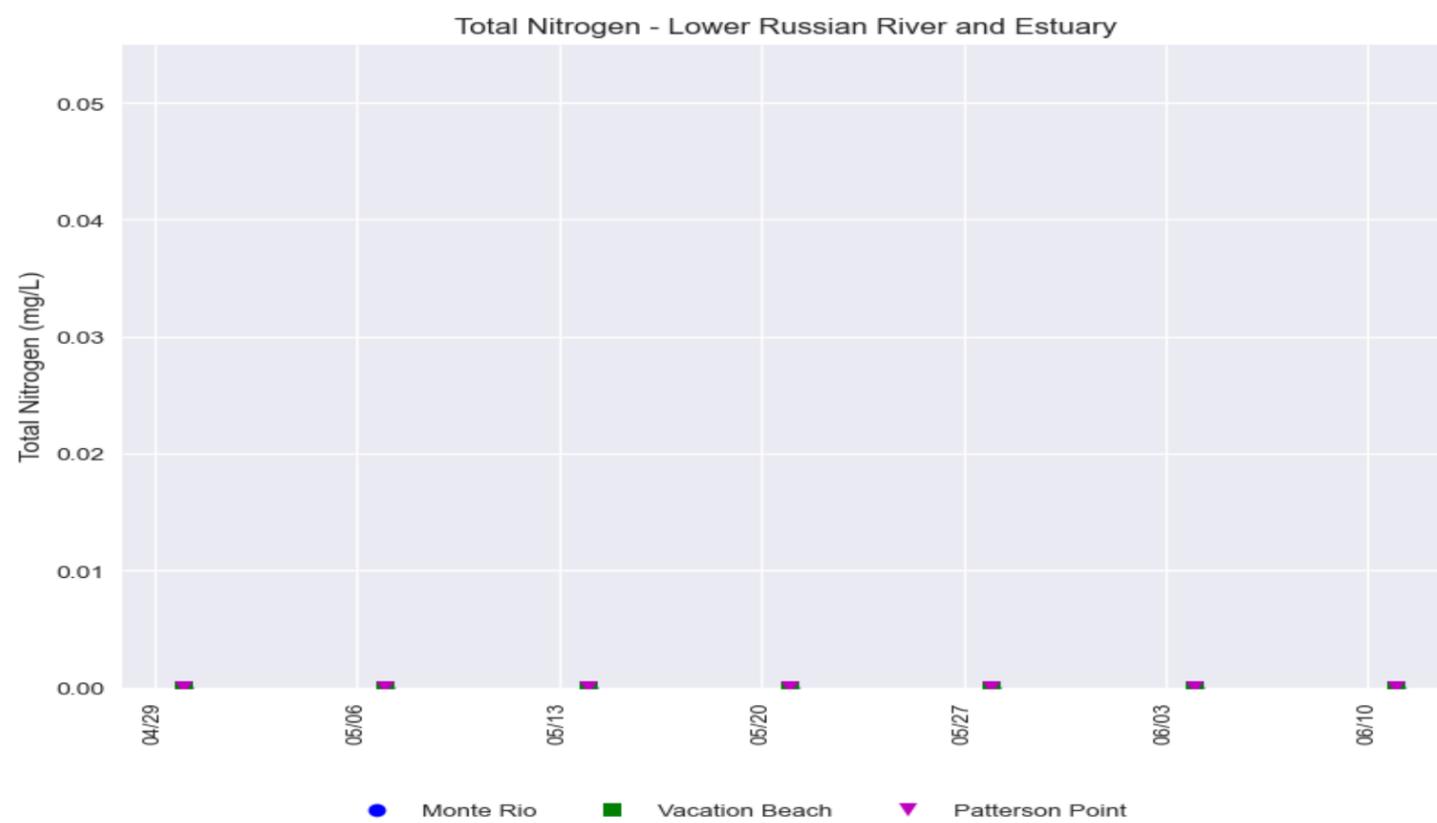
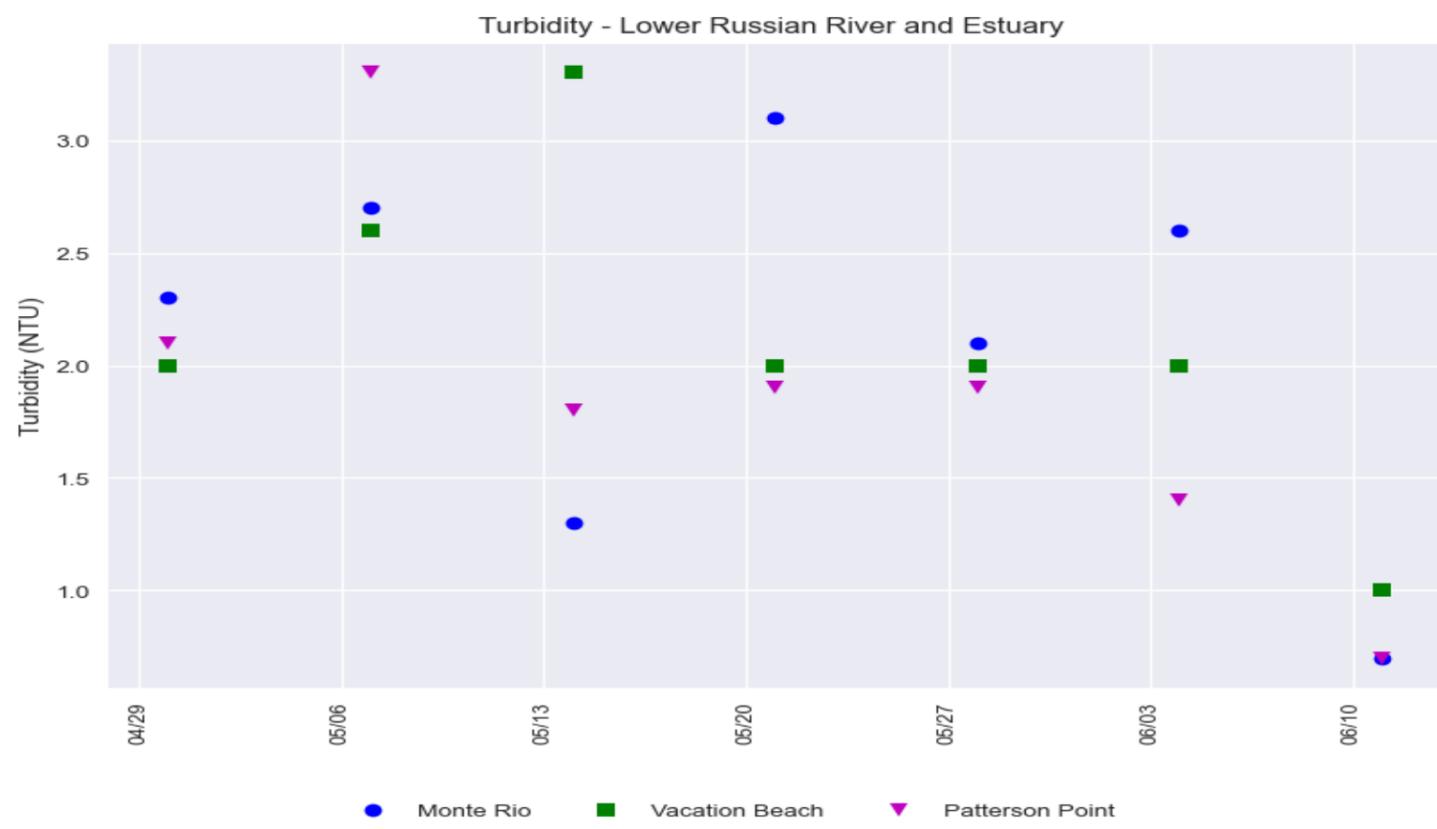
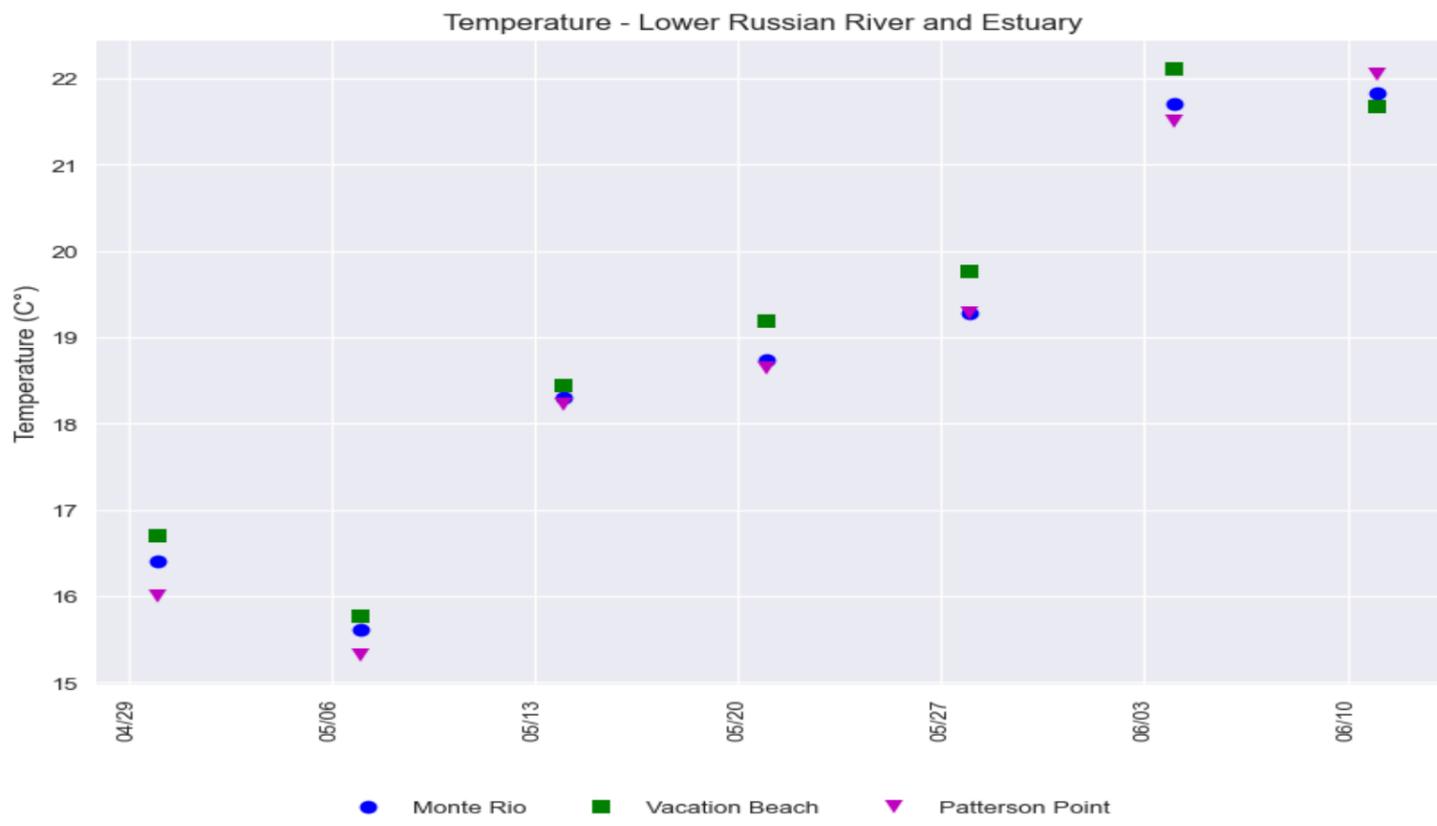
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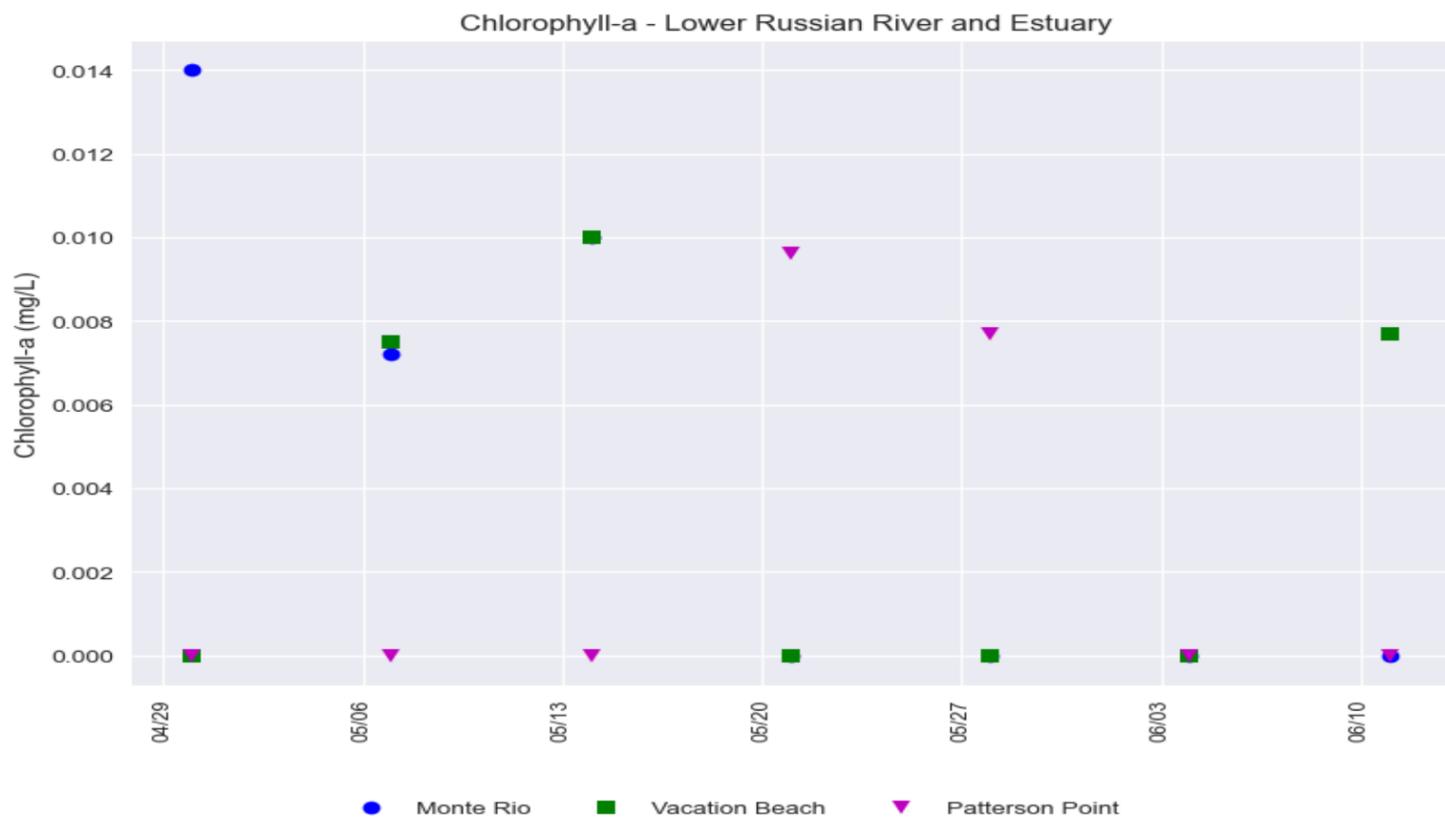
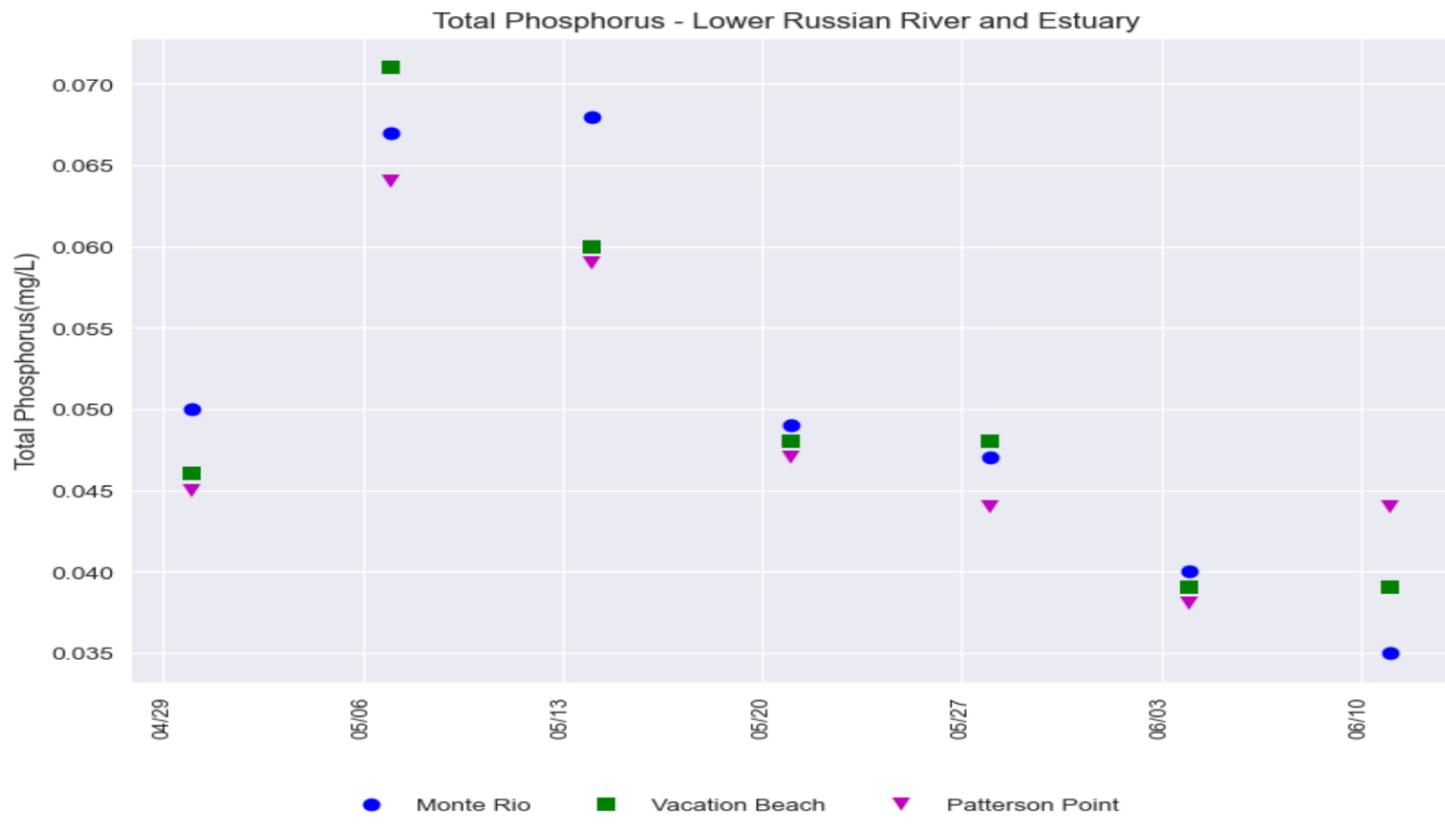
Russian River Water Quality Grab Samples

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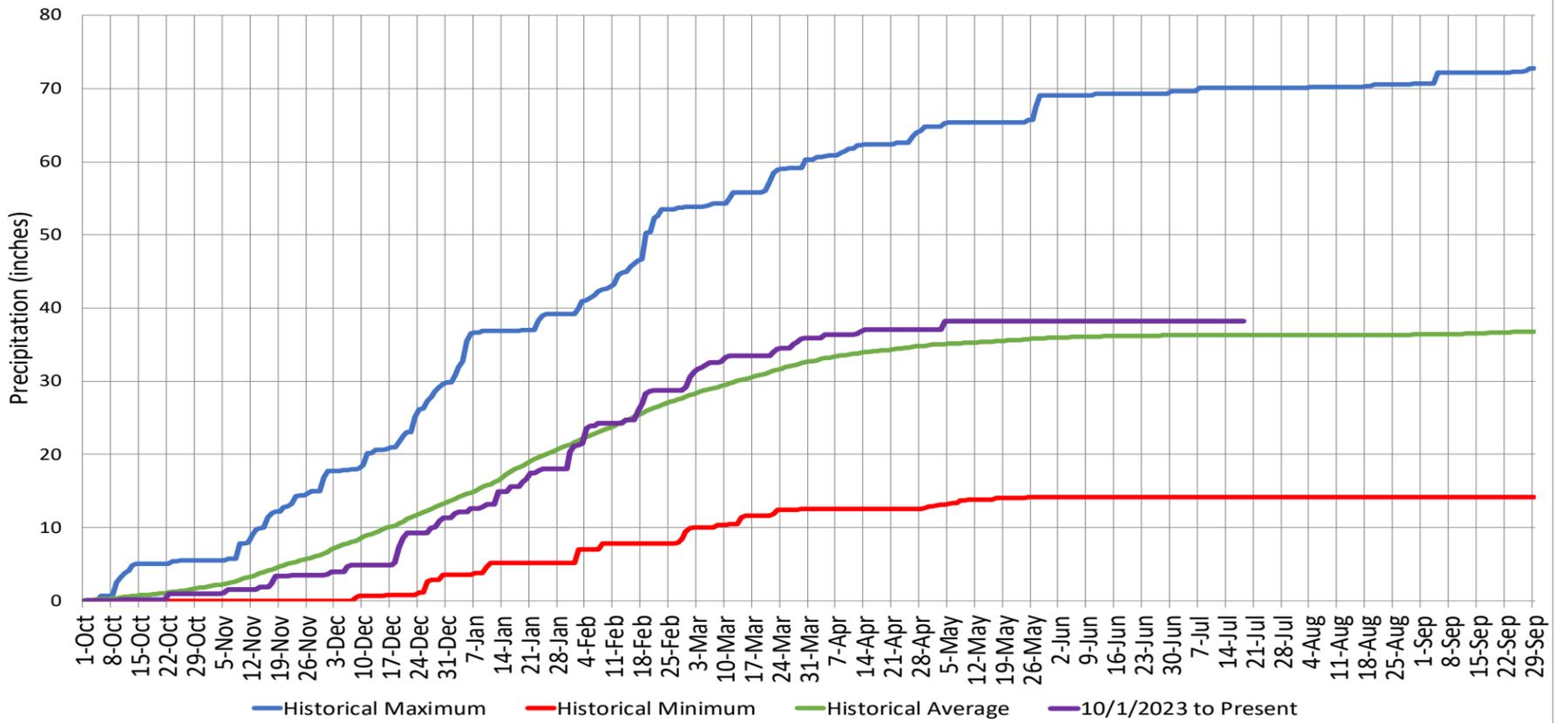


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

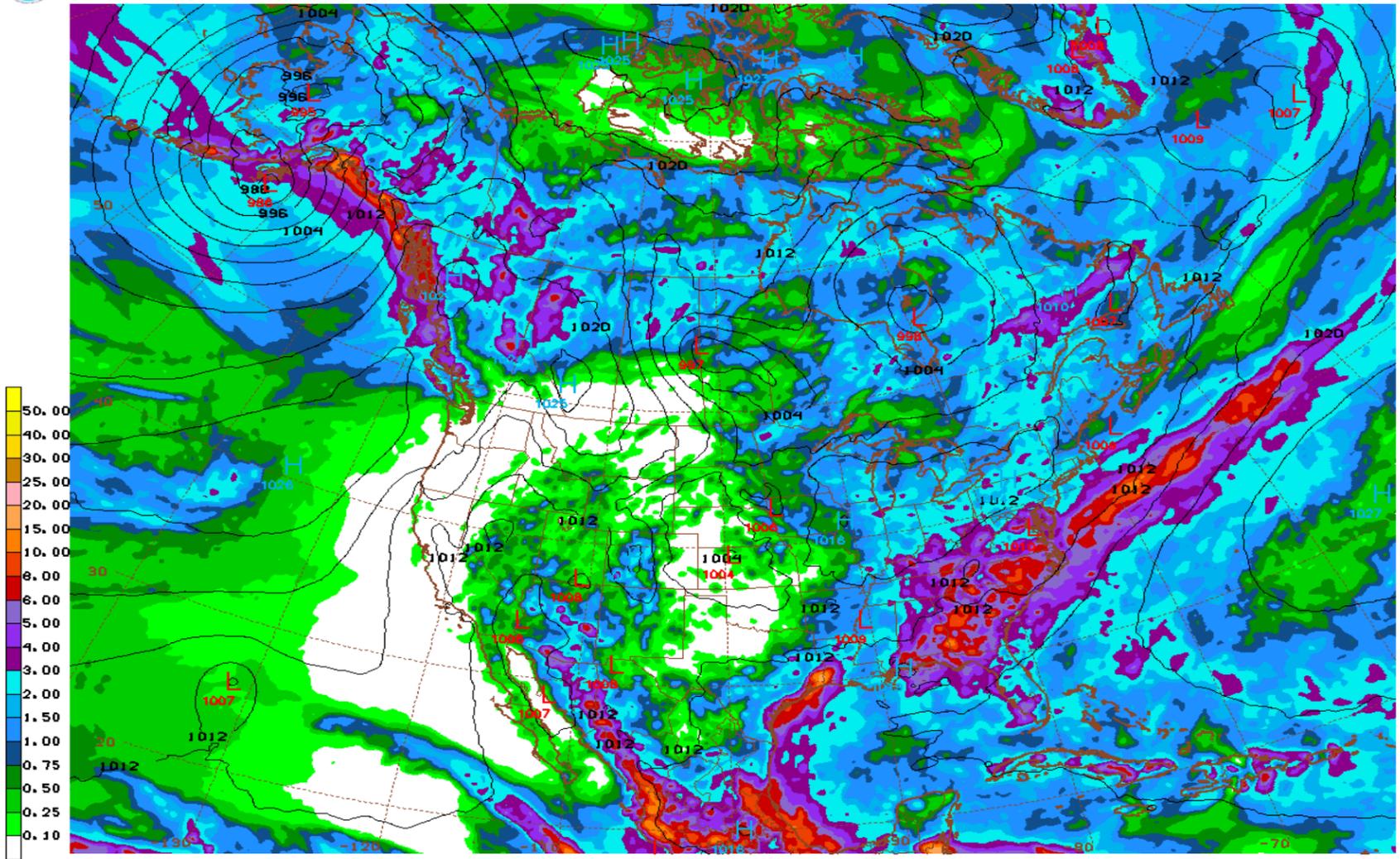
Date Range	Cumulative (inches)
Oct 1, 2023 - Jul 18, 2024	38.22
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 07/22/24 12UTC 384HR FCST VALID WED 08/07/24 12UTC NOAA/NWS/NCEP



GFS WED 240807/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Jul 22 - Aug 7, 2024

Forecasted Cumulative (inches)
0.00