



State Water Resources Control Board
 Temporary Urgency Change Orders (12/27/2023 & 6/6/2024)
 Russian River Hydrologic & Water Quality Report
 August 9, 2024 - August 15, 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).

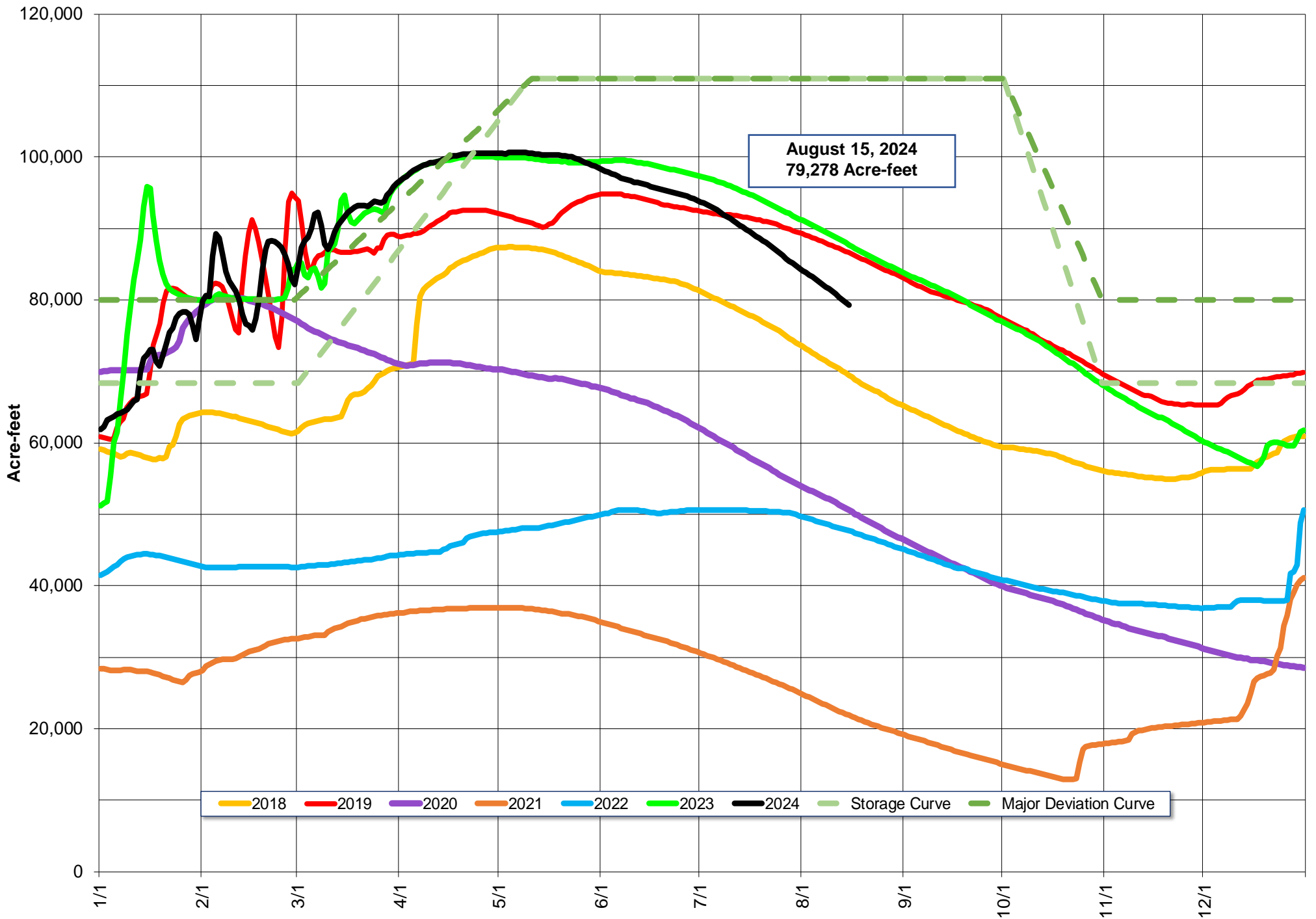
Instream Flow Requirements as of August 15, 2024

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



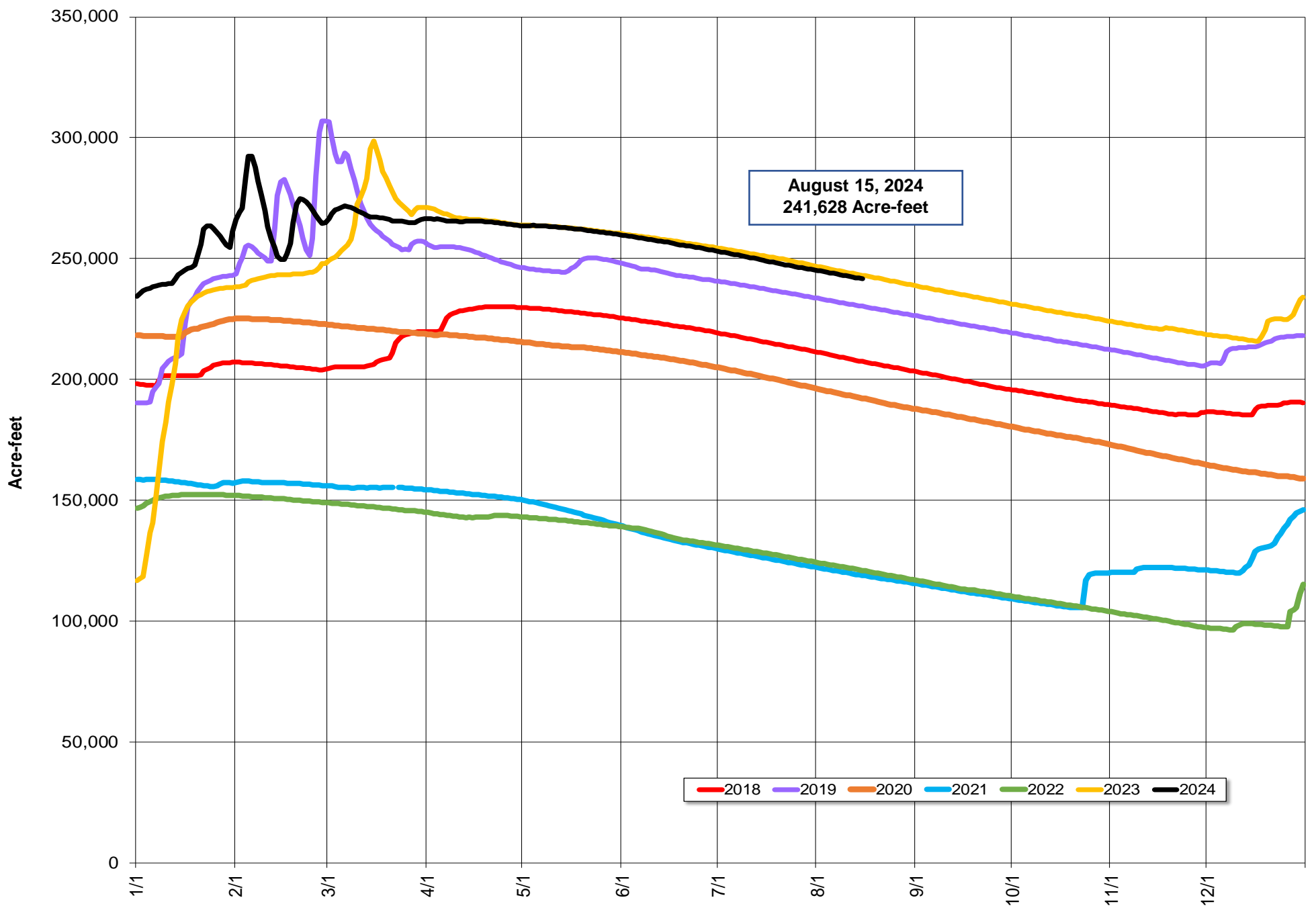
Storage (acre-feet)	August 15, 2024	79,278	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
	Last 7 days	-10,297	-343
Daily Inflow (cfs)	Last 7 days	Min	42
		Max	63
		Mean	48
Release (cfs)	Last 7 days	Min	210
		Max	219
		Mean	216

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	August 15, 2024	241,628	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-7,393	-246
	Last 7 days	-1,729	-247
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	15
		Mean	3
Release (cfs)	Last 7 days	Min	100
		Max	100
		Mean	100

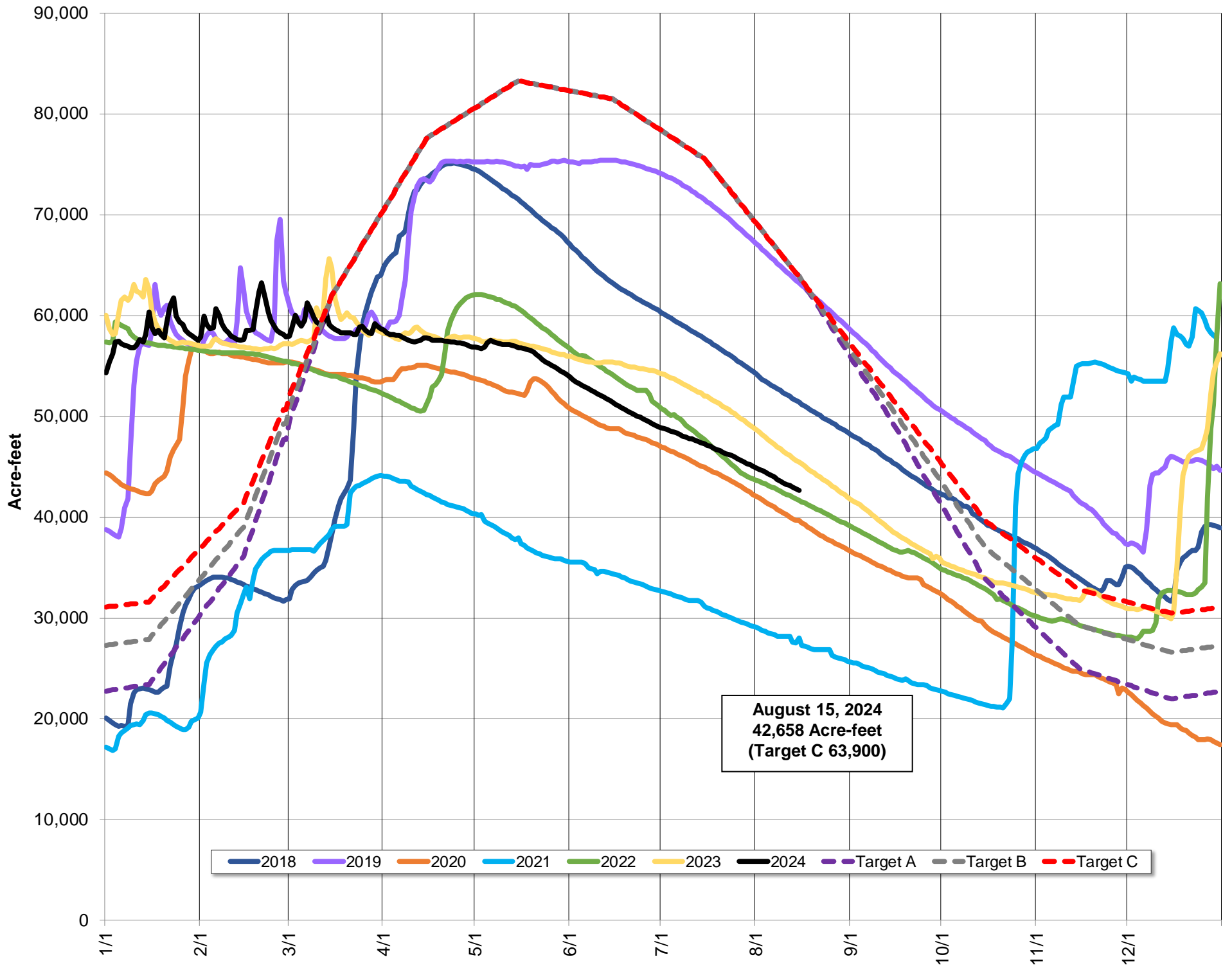
Potter Valley Project

PVP Diversion (cfs)	August 15, 2024	59
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - August 15, 2024	486,708	1,521
	Last 7 days	48	7

*Inflow calculation based on criteria established in D1610

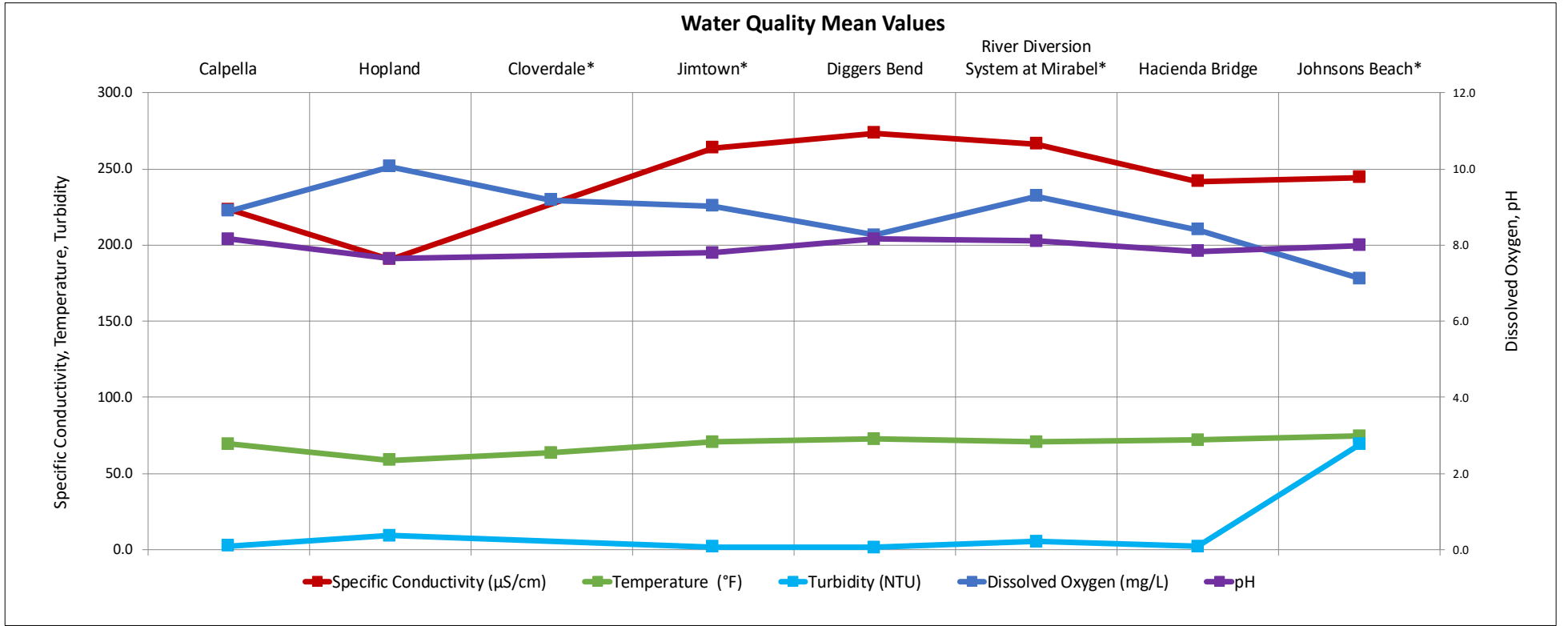
Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios



Russian River Flows (August 9, 2024 - August 15, 2024)

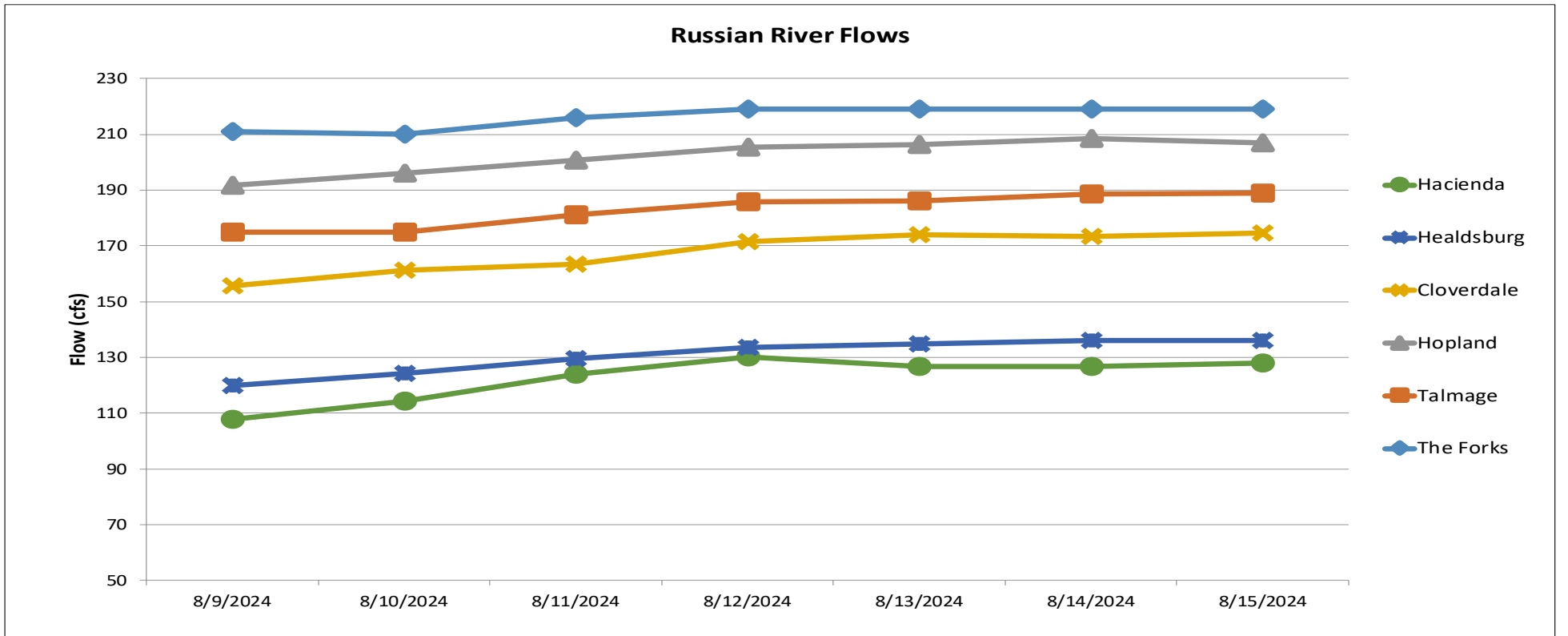
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	65.7	55.8	60.4	66.7	68.5	69.6	68.4	72.1
	Max	73.4	60.4	67.1	74.8	76.6	72.2	75.2	76.6
	Mean	69.4	58.4	63.4	70.5	72.6	70.6	71.8	74.4
Specific Conductivity (µS/cm)	Min	217.0	189.0		257.0	267.0	255	239.0	136.7
	Max	230.0	193.0		274.0	284.0	274	247.0	257.0
	Mean	223.4	190.7		263.7	273.6	266	241.8	244.5
Dissolved Oxygen (mg/L)	Min	7.9	9.0	8.4	6.6	6.9	8.5	6.8	3.8
	Max	10.6	11.6	10.2	12.8	9.8	10.2	9.4	7.8
	Mean	8.9	10.1	9.2	9.0	8.3	9.3	8.4	7.1
Dissolved Oxygen (% Saturation)	Min	89.5	87.9	87.5	72.6	77.4	72.6	76.2	72.6
	Max	119.6	116.5	110.8	146.9	117.1	146.9	110.0	146.9
	Mean	99.3	99.2	95.9	102.4	95.7	102.4	96.5	102.4
pH	Min	7.9	7.4		7.4	7.9	8.0	7.4	7.8
	Max	8.5	8.0		8.4	8.4	8.3	8.0	8.1
	Mean	8.2	7.6		7.8	8.2	8.1	7.8	8.0
Turbidity (NTU)	Min	1.6	8.0		0.8	0.7	2.4	0.9	5
	Max	3.4	10.6		2.4	2.0	43.1	3.7	1446
	Mean	2.4	9.2		1.5	1.2	5.1	2.0	69

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Aug 9, 2024	Aug 10, 2024	Aug 11, 2024	Aug 12, 2024	Aug 13, 2024	Aug 14, 2024	Aug 15, 2024
The Forks*	211	210	216	219	219	219	219
Talmage USGS 11462080	175	175	181	186	186	189	189
Hopland USGS 11462500	192	196	201	205	206	209	207
Cloverdale USGS 11463000	156	161	163	172	174	173	175
Healdsburg USGS 11464000	120	124	130	134	135	136	136
Hacienda USGS 11467000	108	114	124	130	127	127	128

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

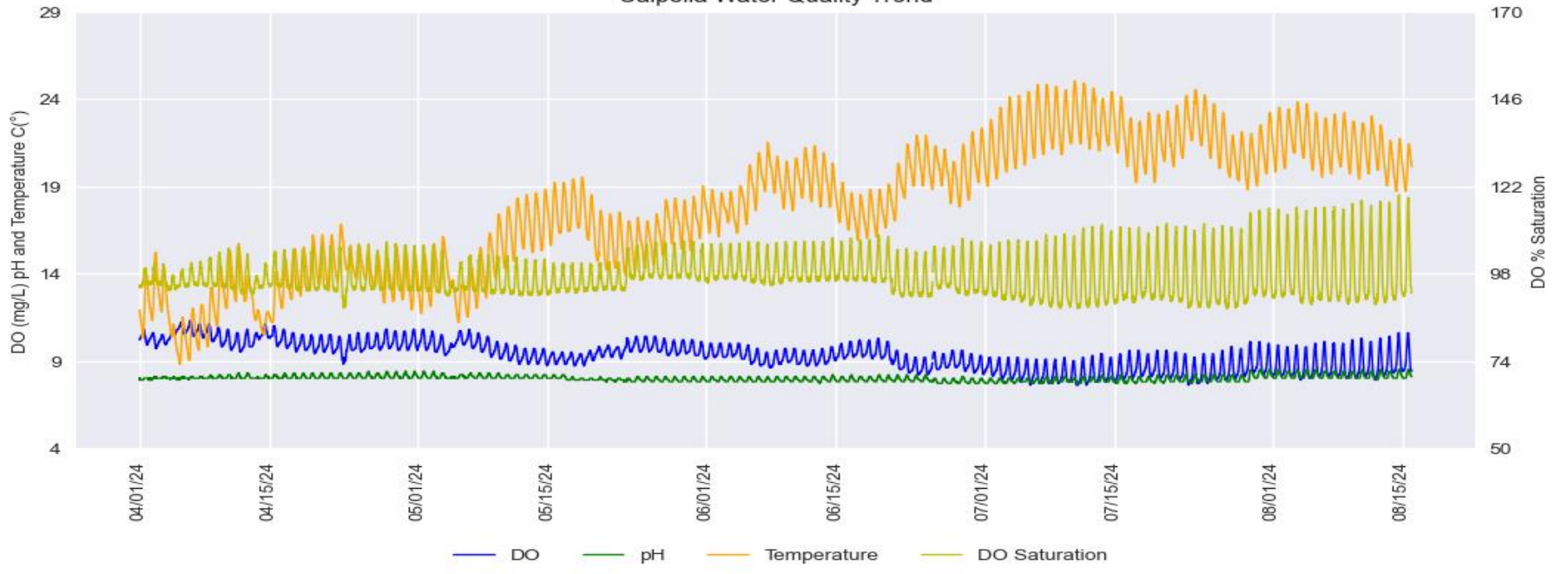


Russian River Water Quality April 1, 2024 – August 15, 2024

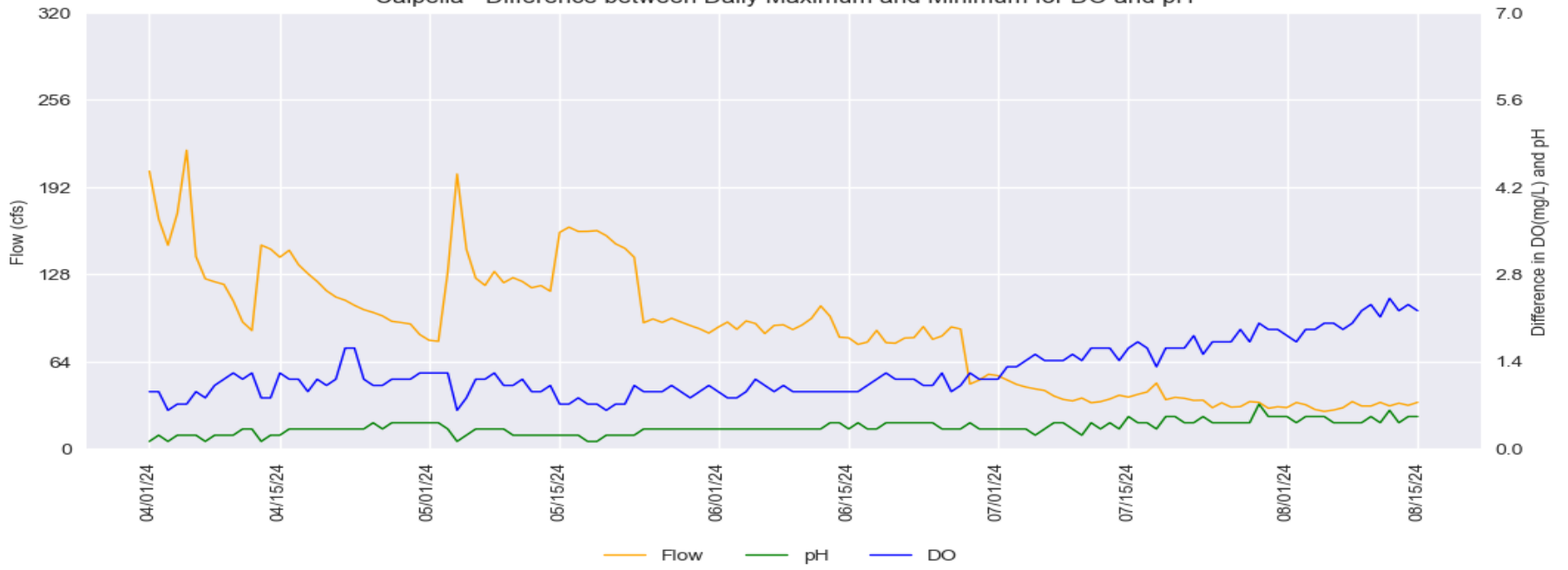
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

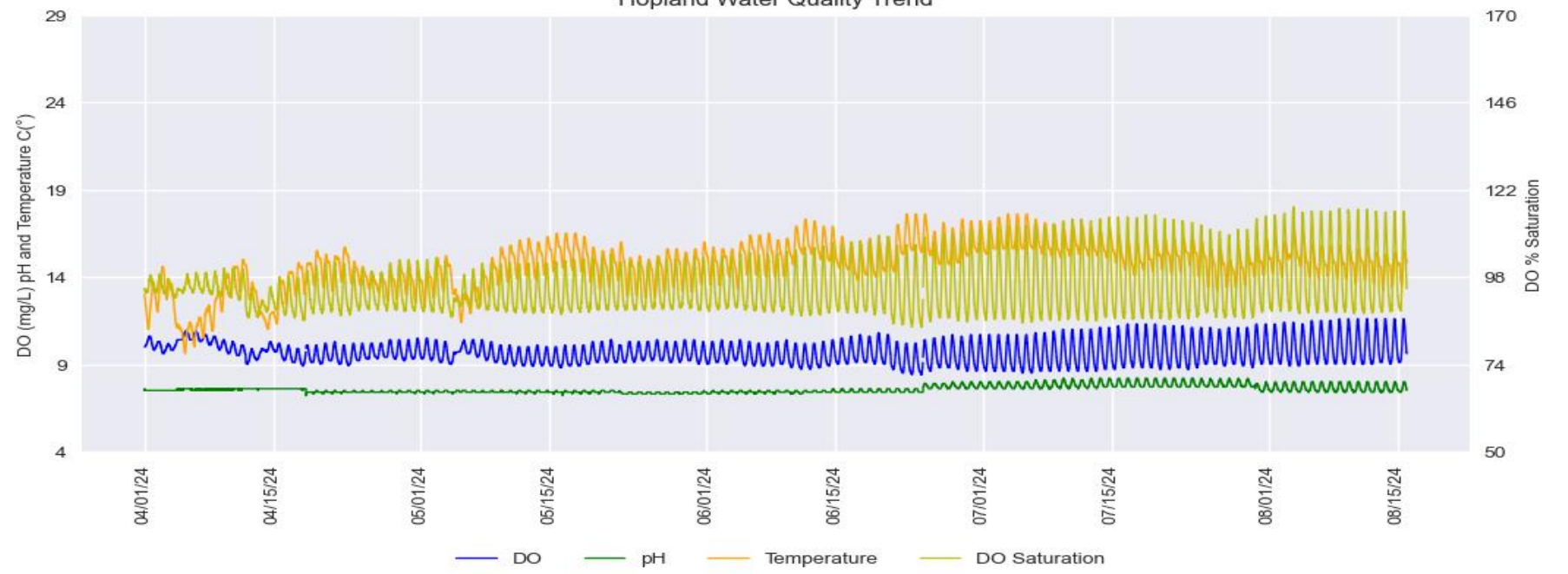


Calpella - Difference between Daily Maximum and Minimum for DO and pH

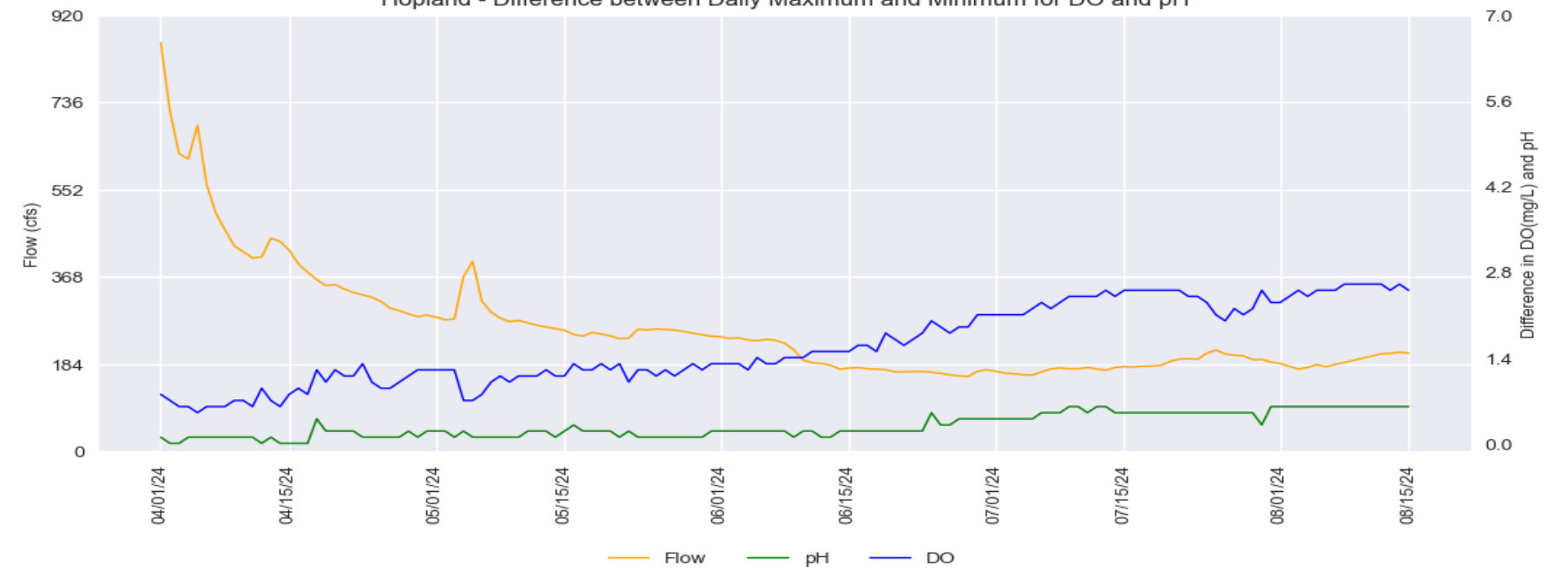


Hopland

Hopland Water Quality Trend



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

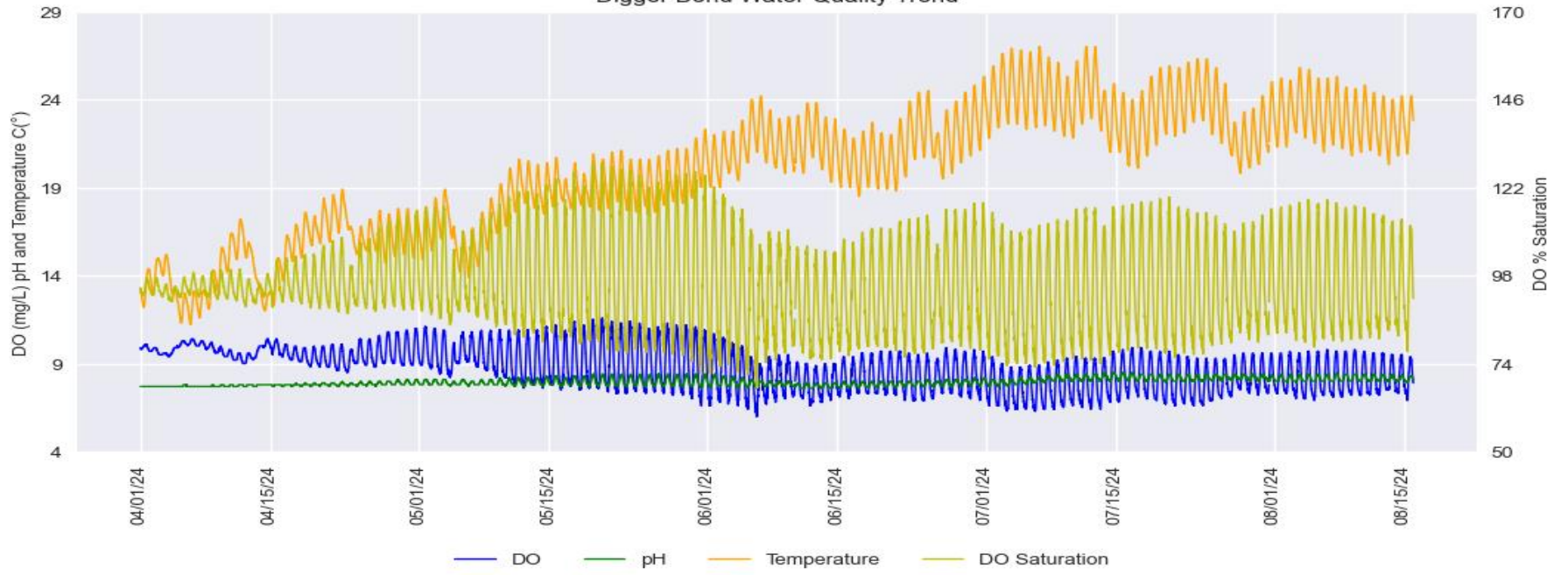


Russian River Water Quality April 1, 2024 – August 15, 2024

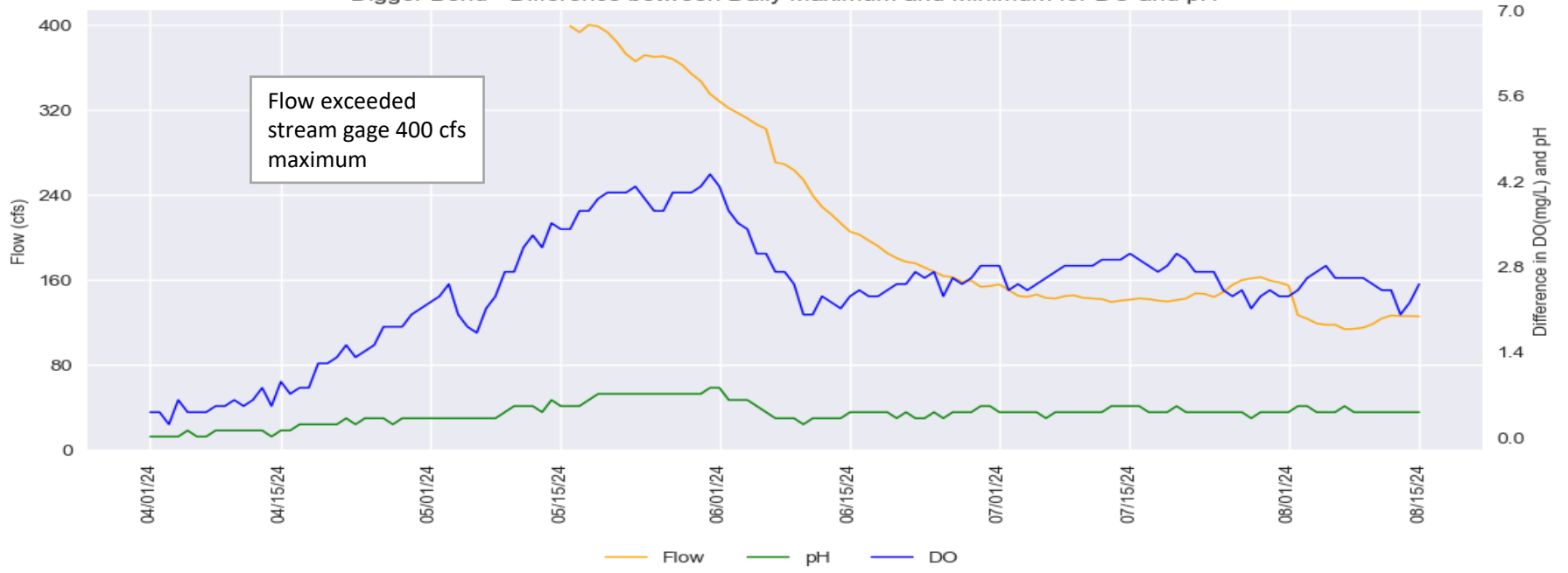
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

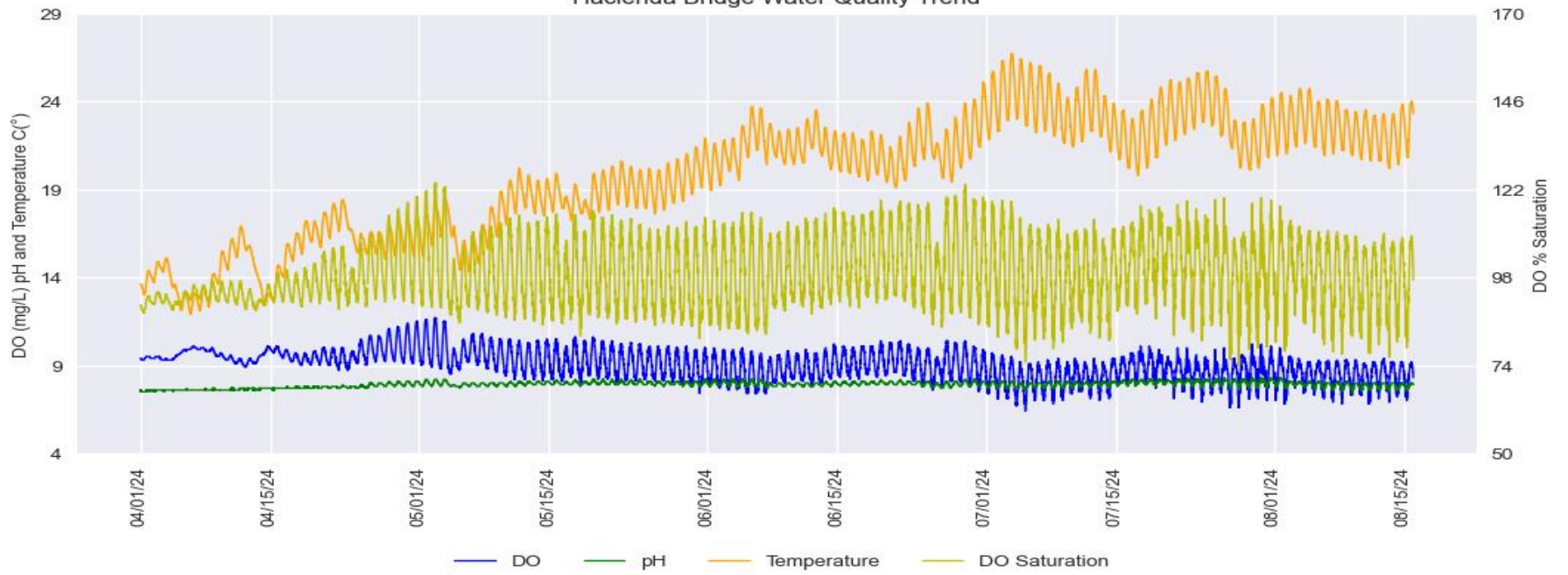


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

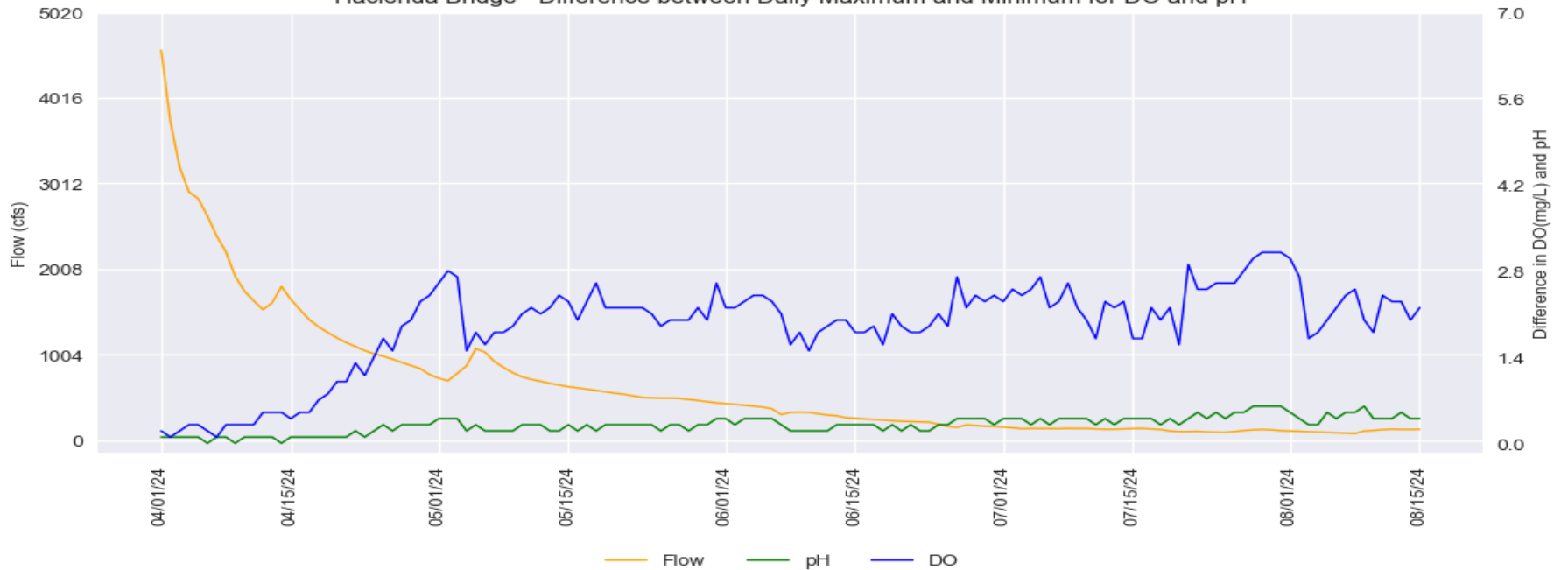


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

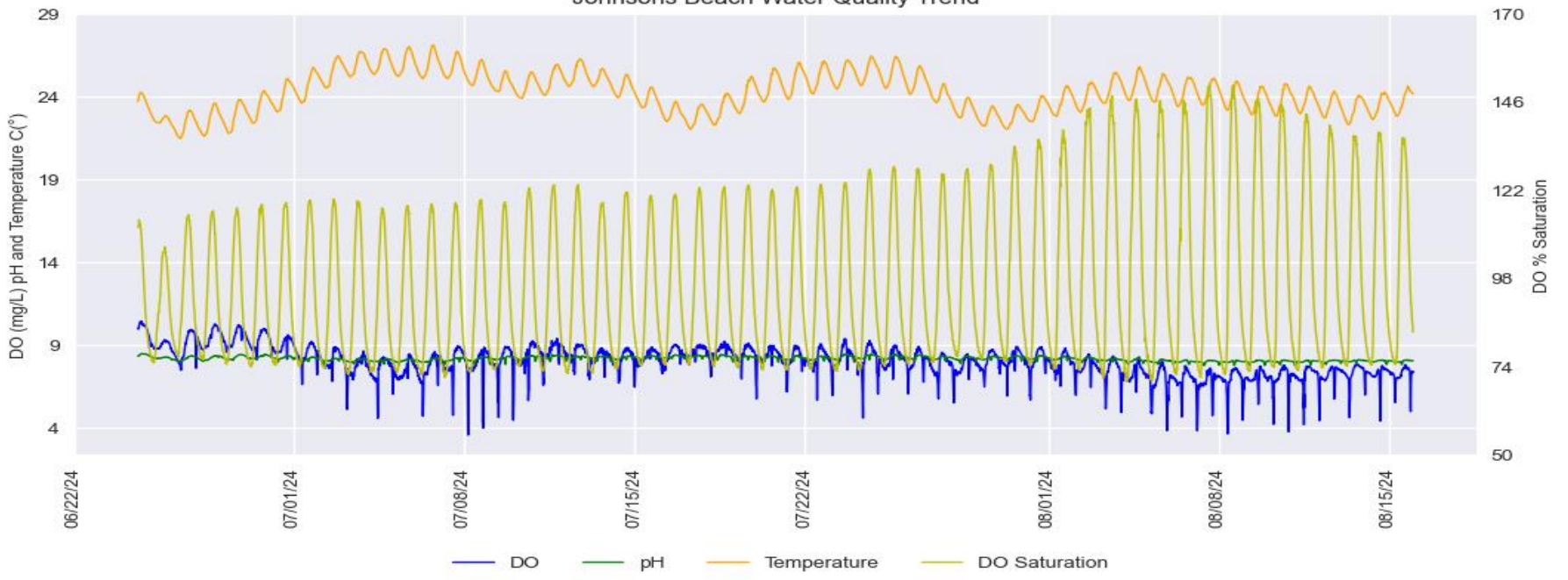


Russian River Water Quality June 24, 2024 – August 15, 2024

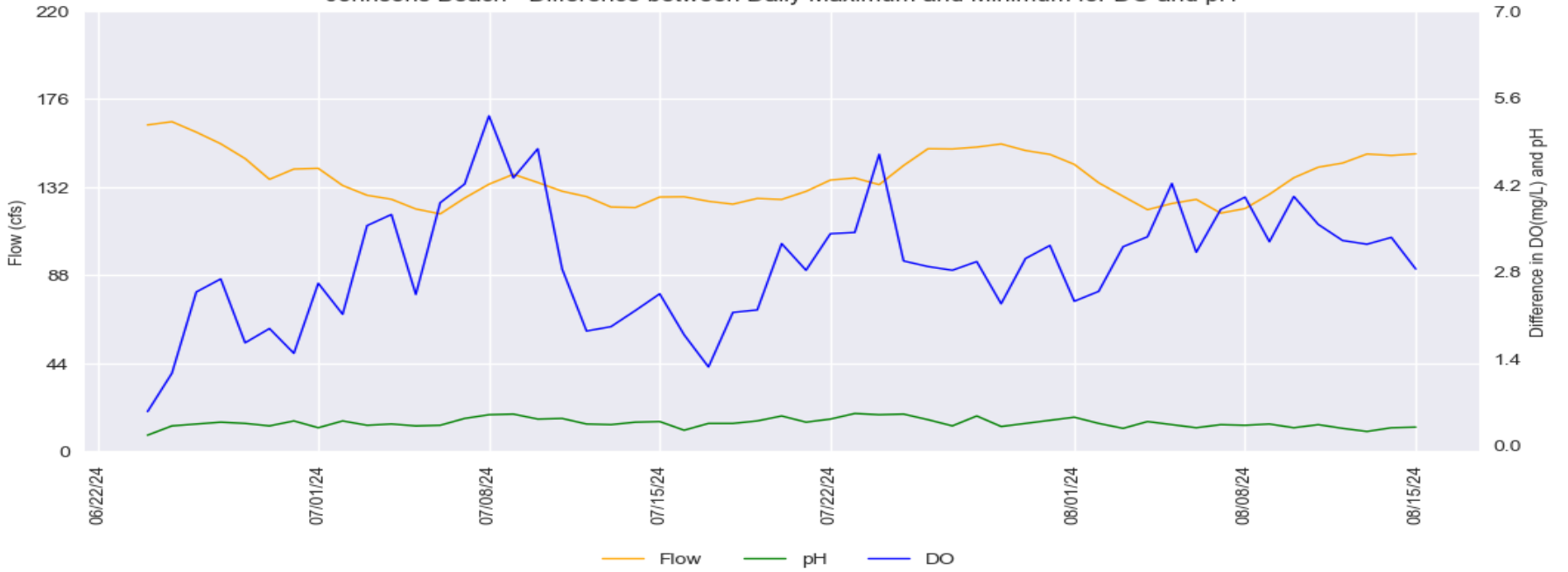
Provisional Data Subject to Revision

Johnsons Beach

Johnsons Beach Water Quality Trend

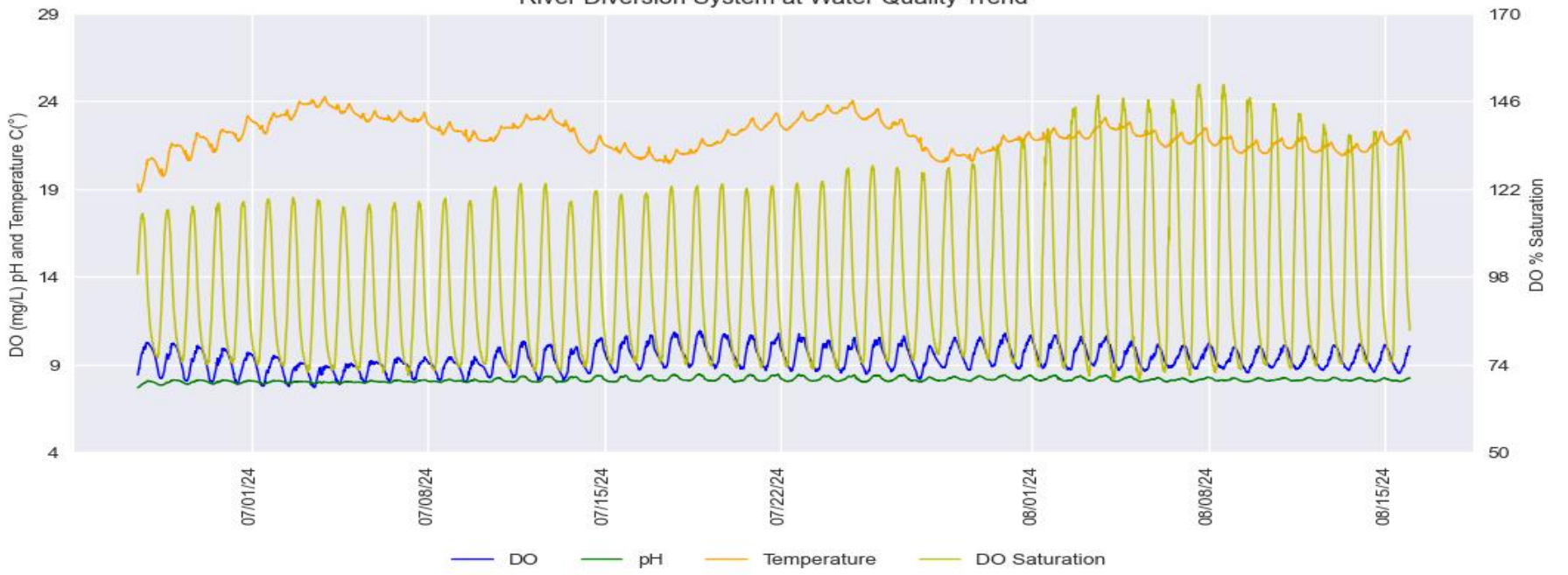


Johnsons Beach - Difference between Daily Maximum and Minimum for DO and pH

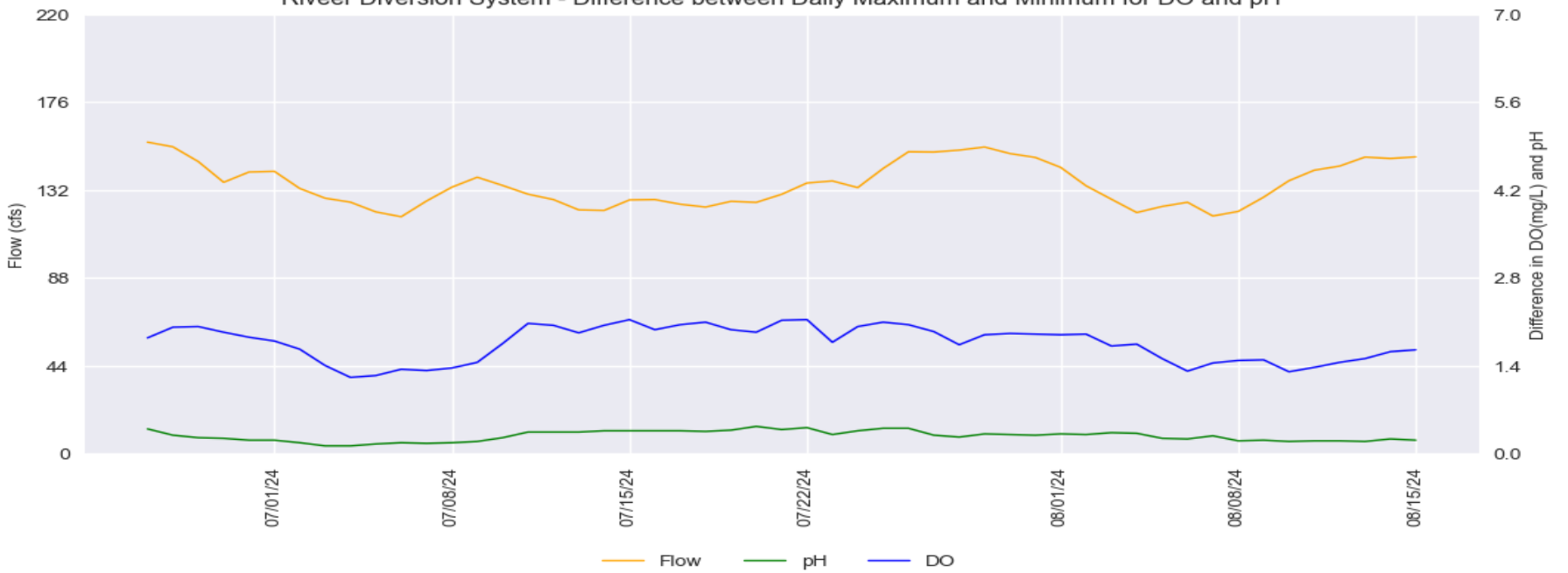


River Diversion System at Mirabel

River Diversion System at Water Quality Trend



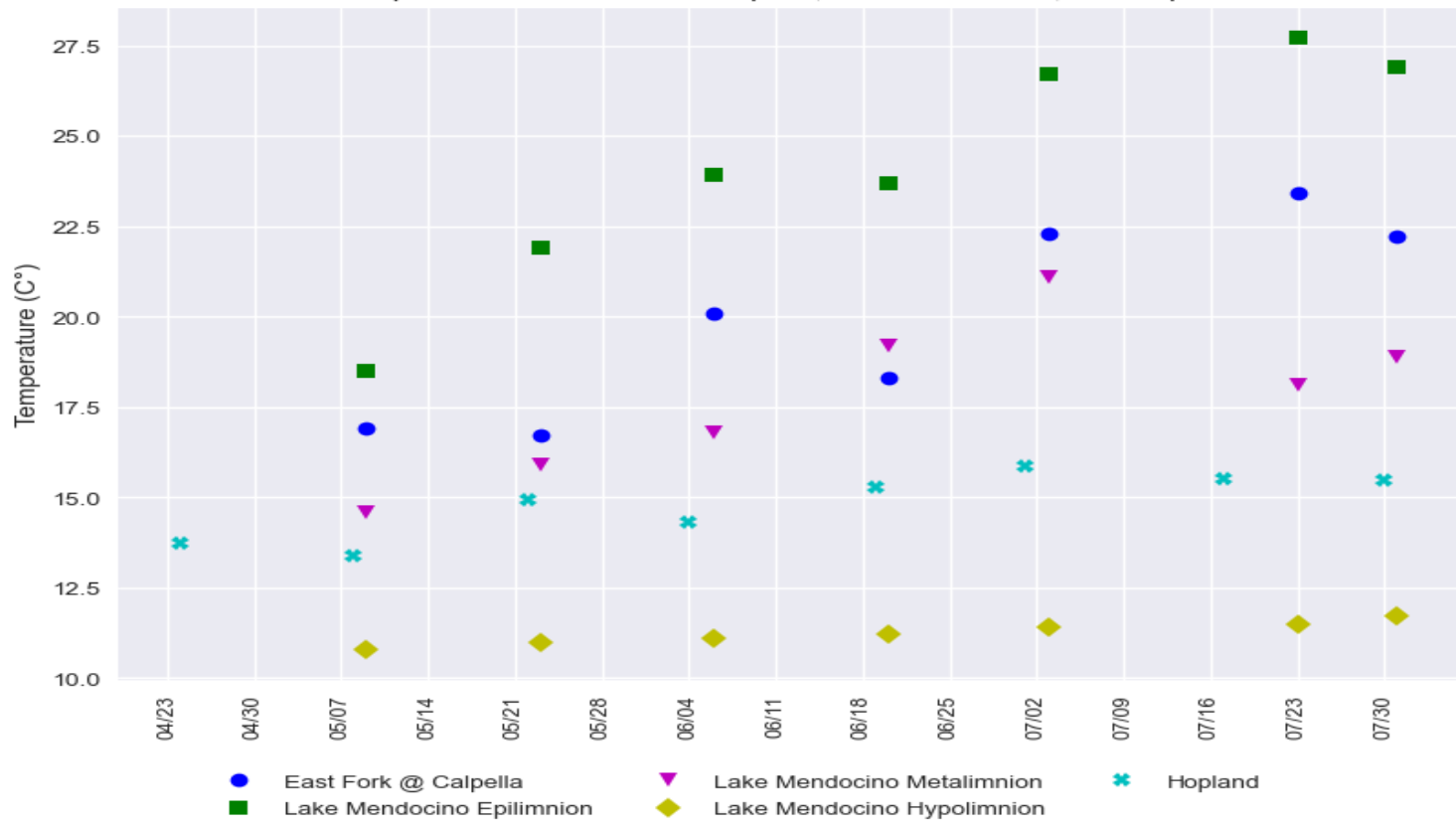
River Diversion System - Difference between Daily Maximum and Minimum for DO and pH



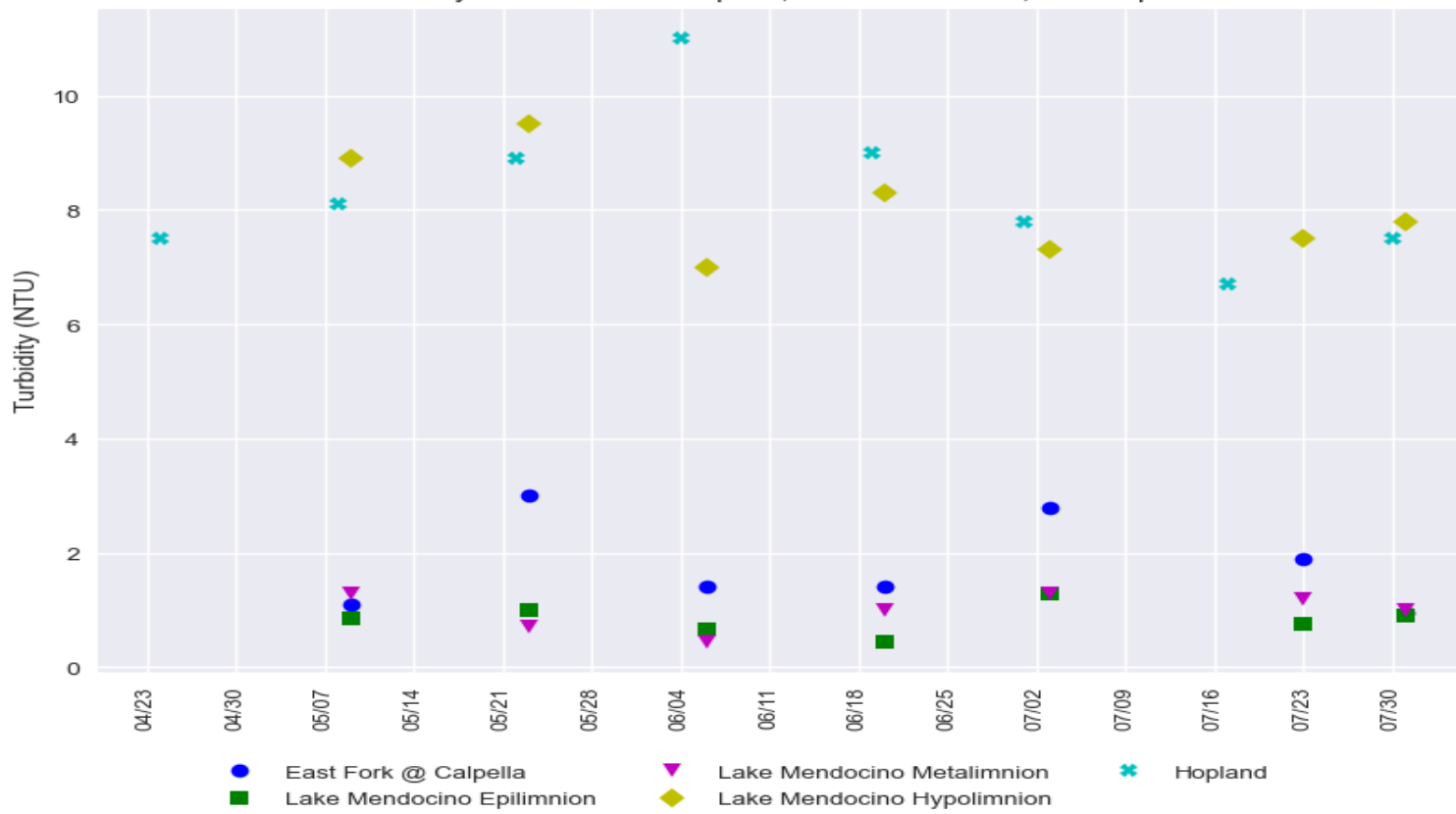
Russian River Water Quality Grab Samples

Provisional Data Subject to Revision

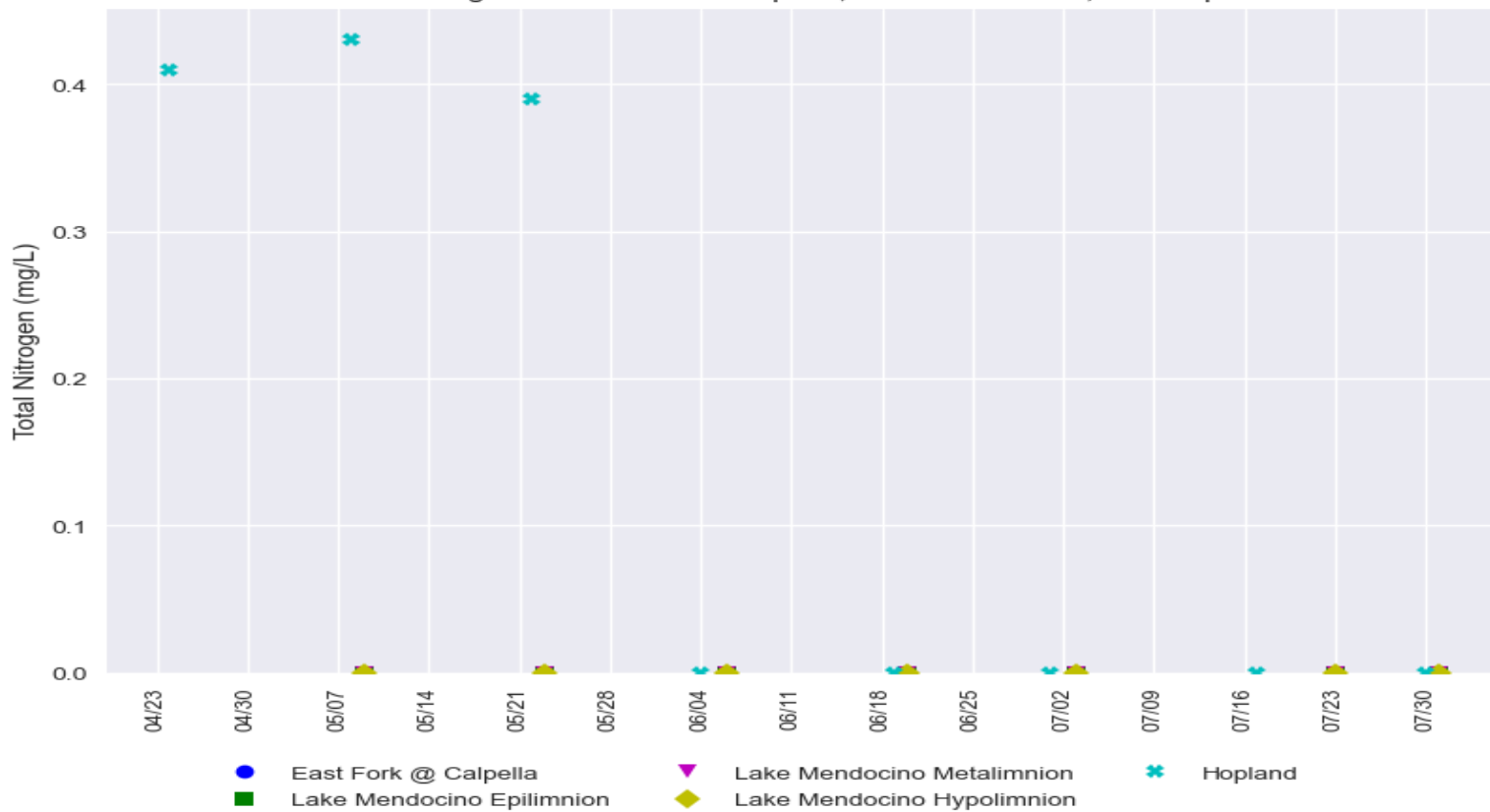
Temperature - East Fork at Calpella, Lake Mendocino, and Hopland



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

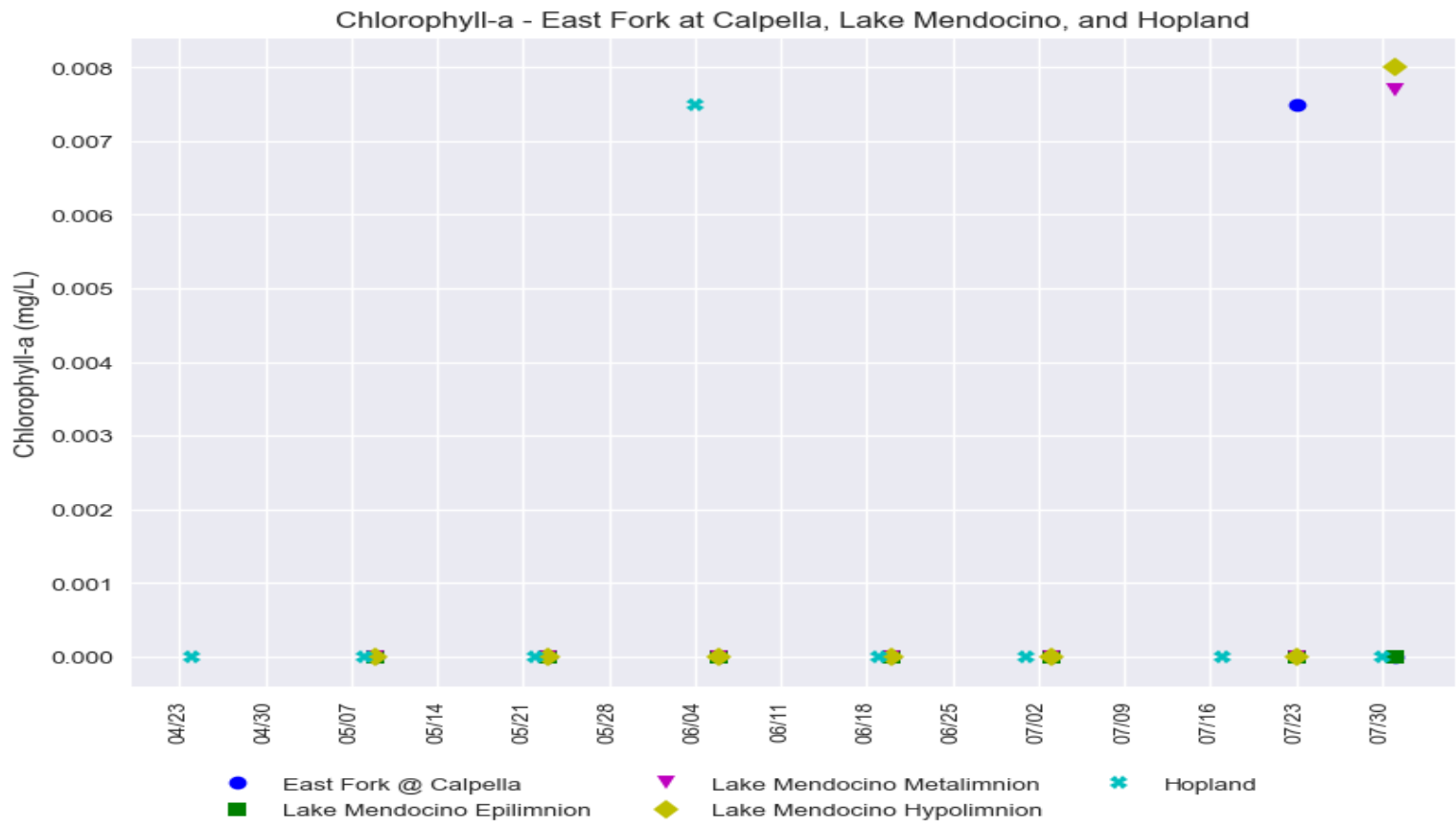
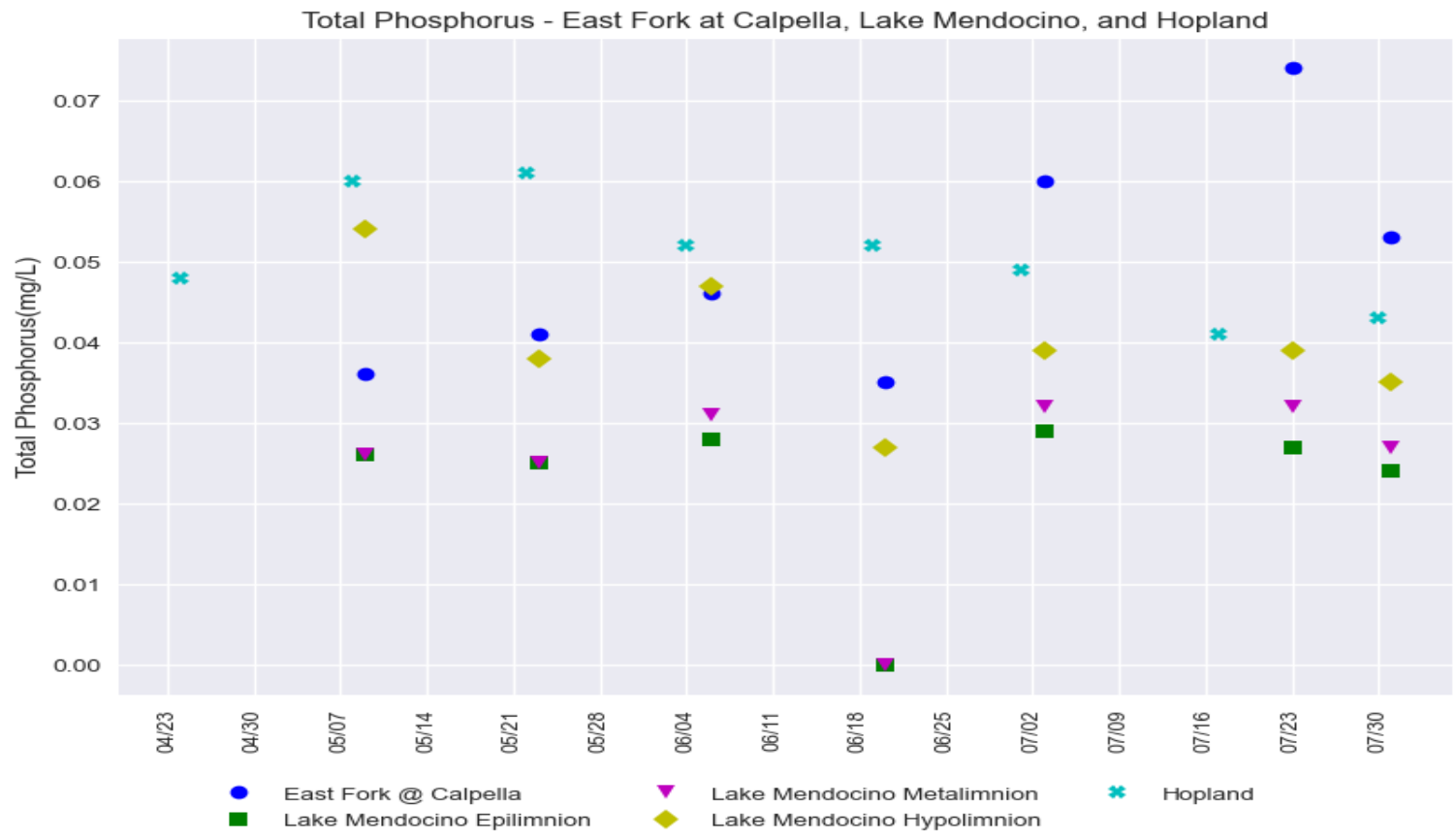


Total Nitrogen (mg/L) - East Fork at Calpella, Lake Mendocino, and Hopland



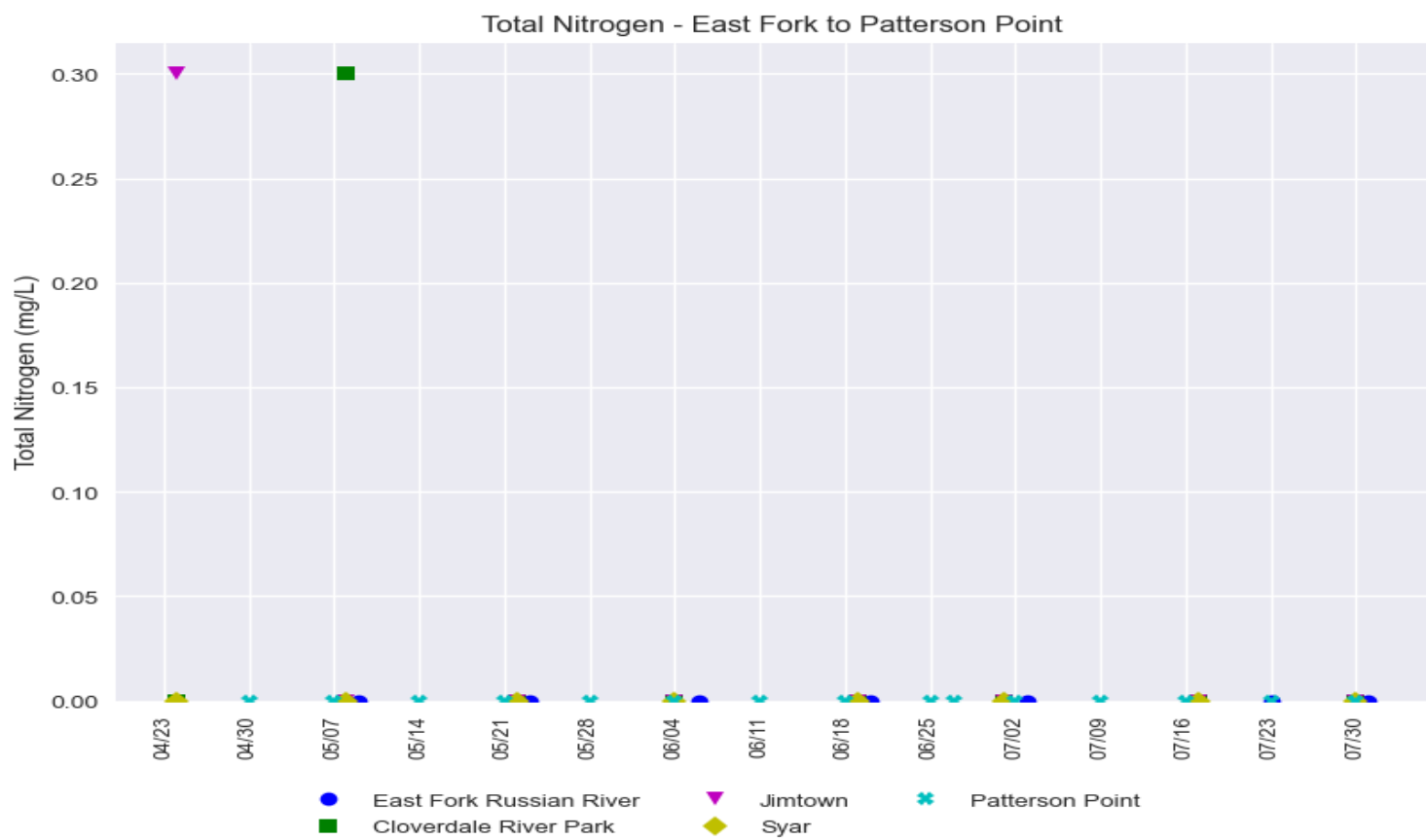
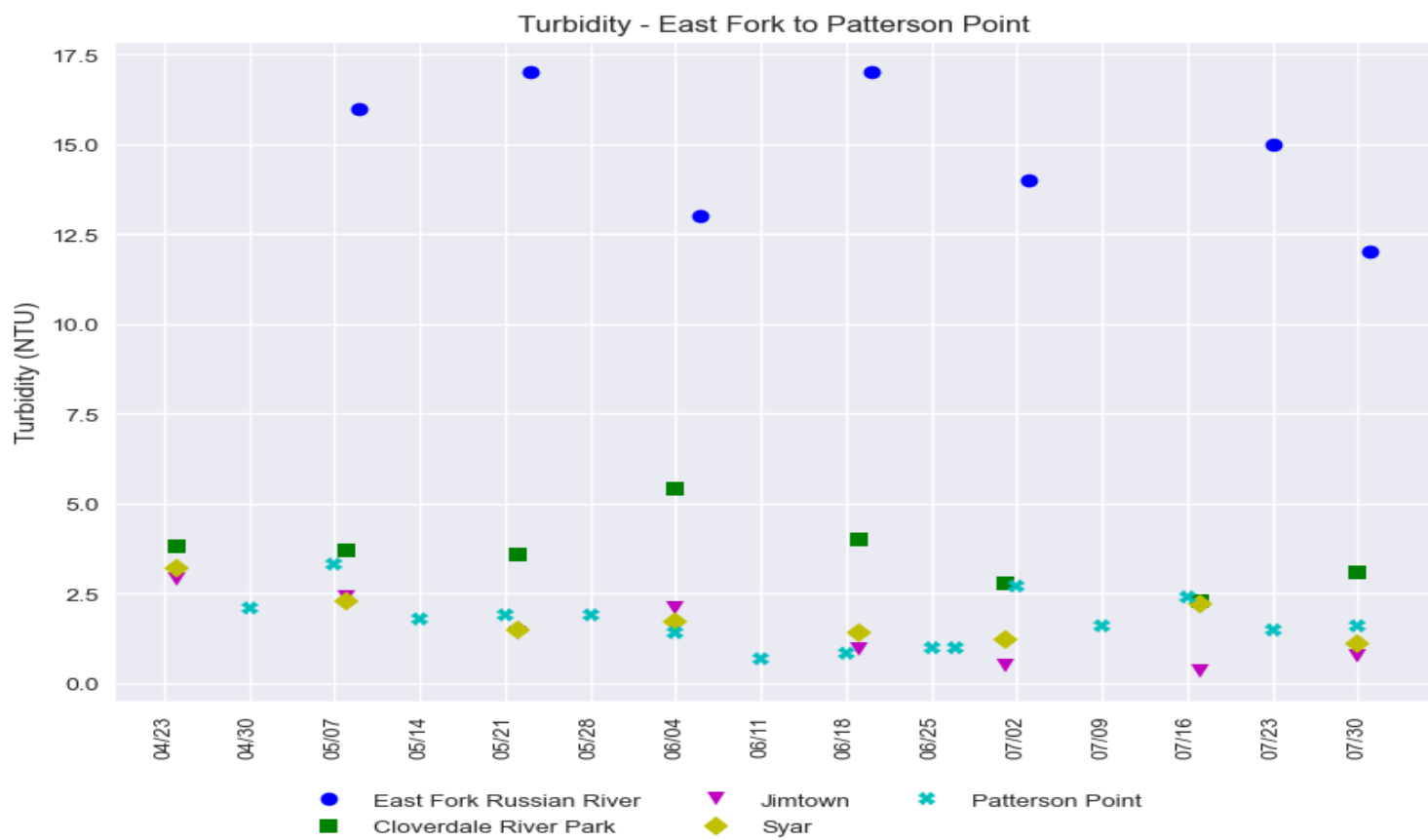
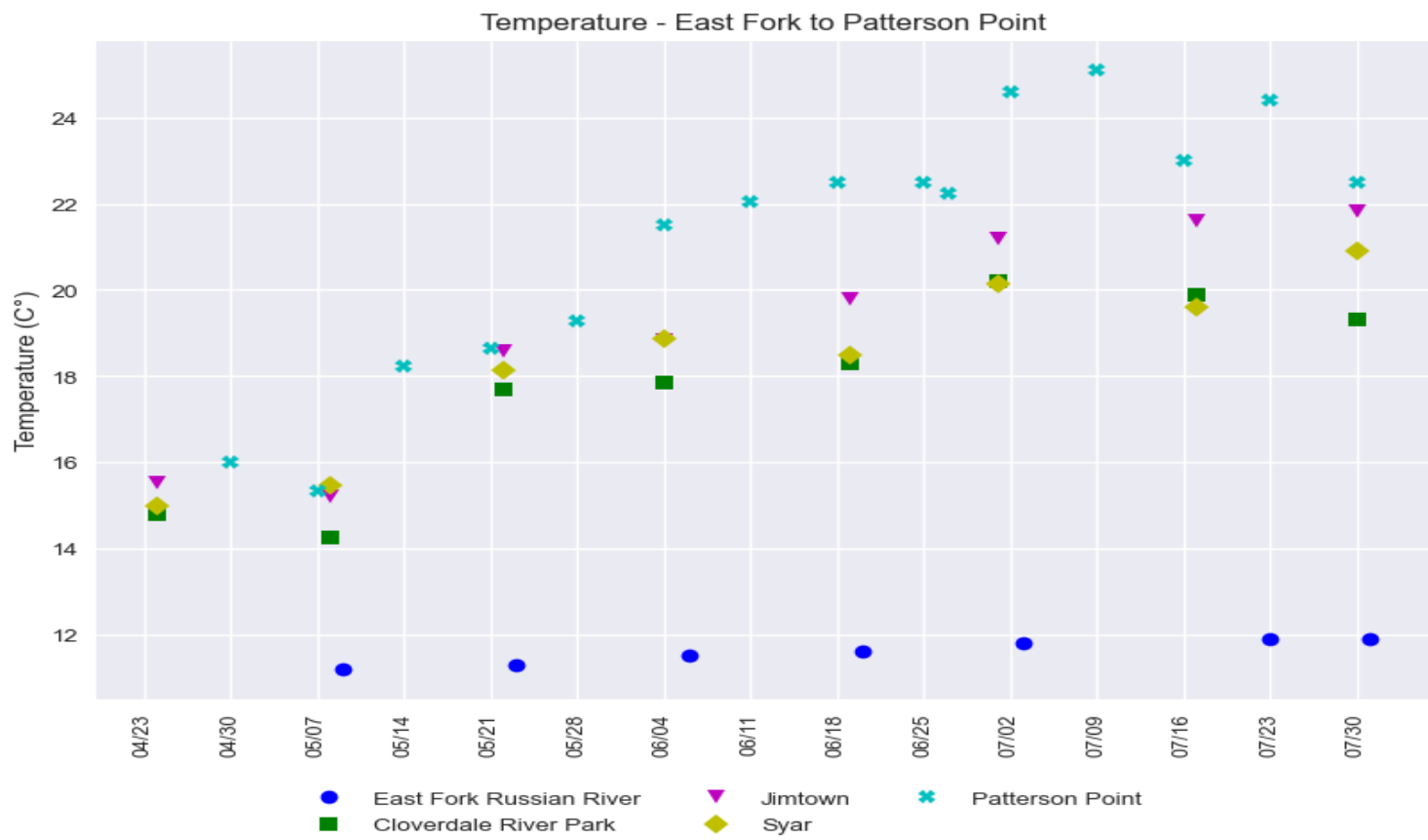
Russian River Water Quality Grab Samples

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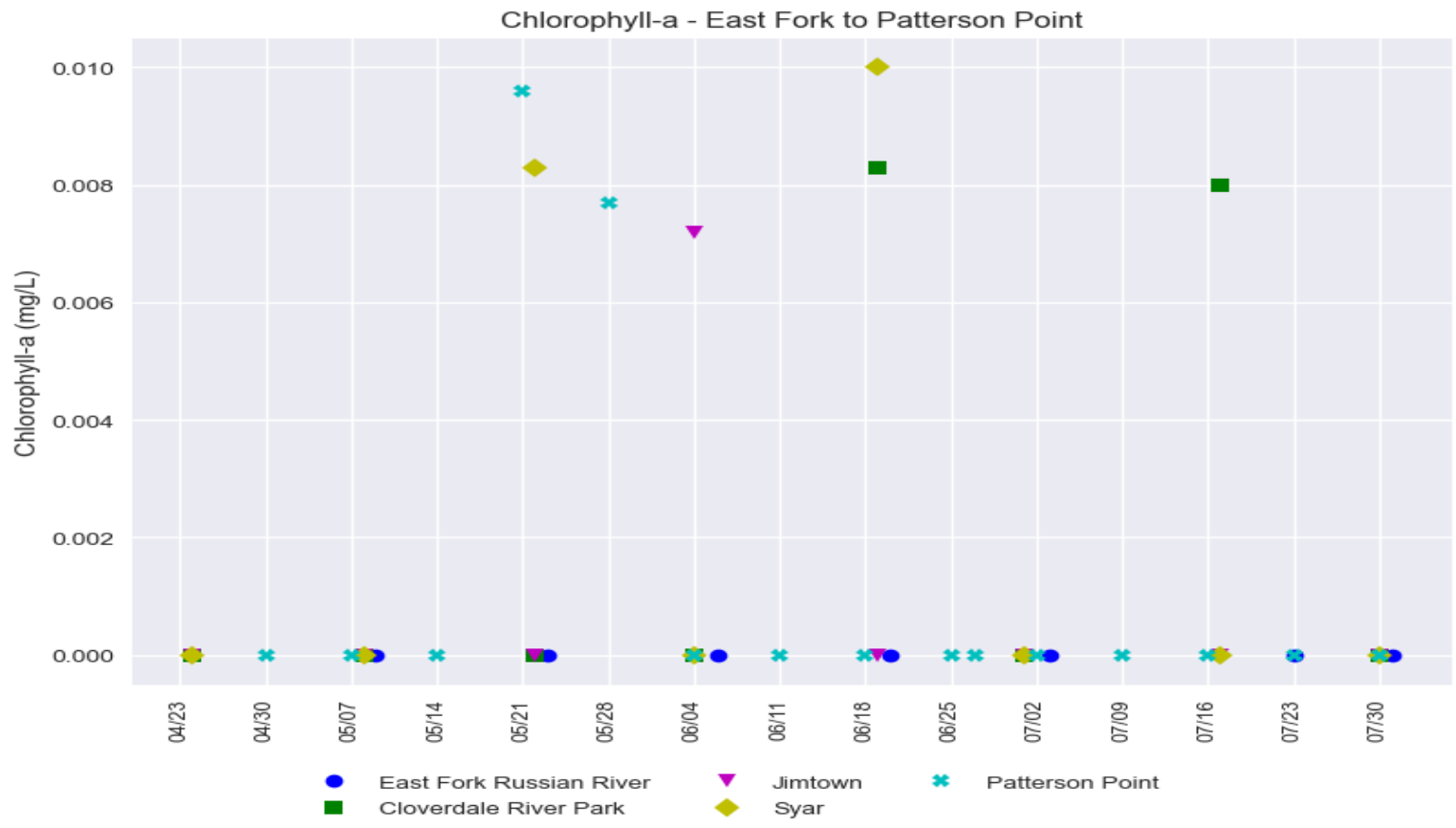
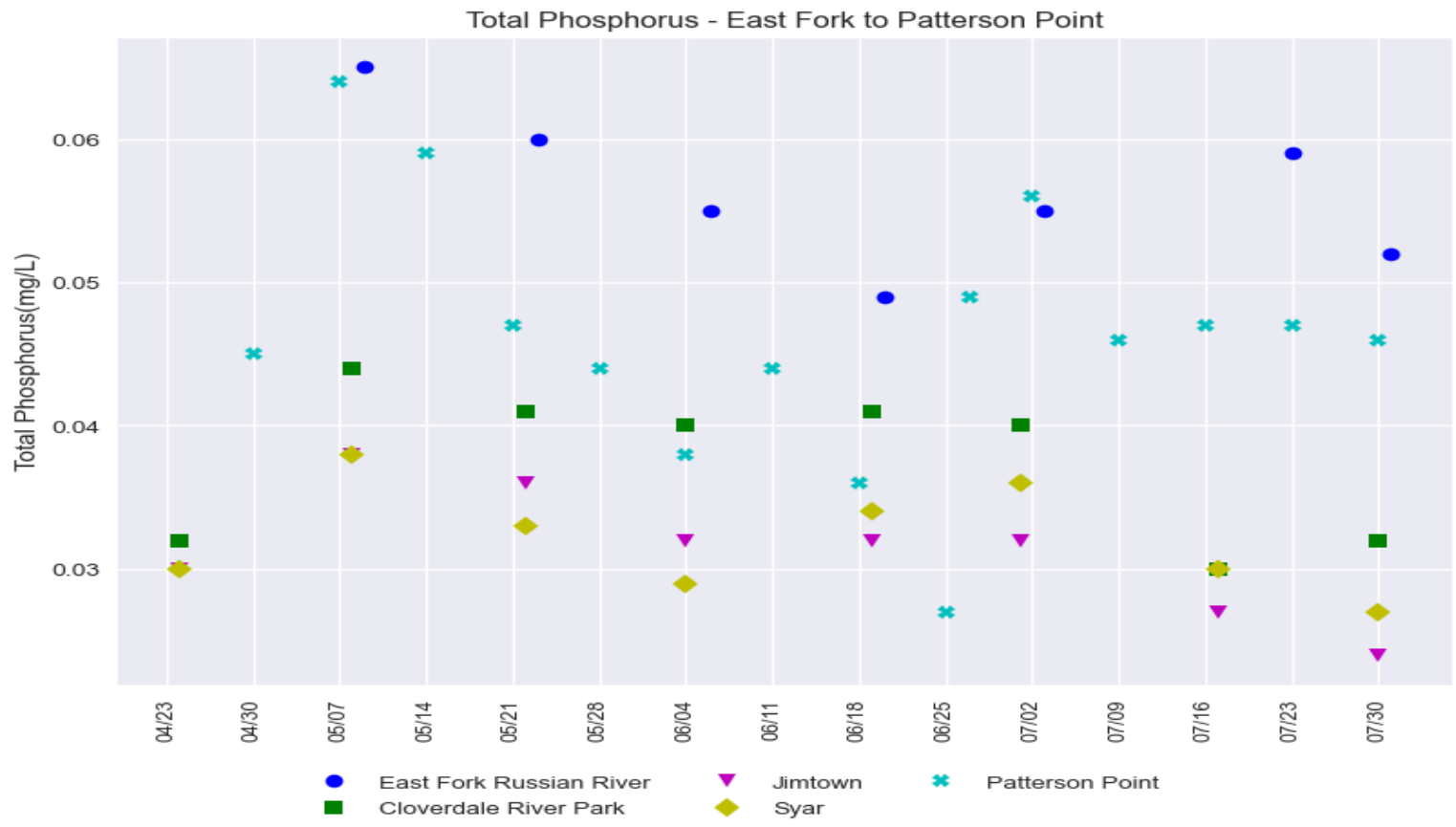
Russian River Water Quality Grab Samples

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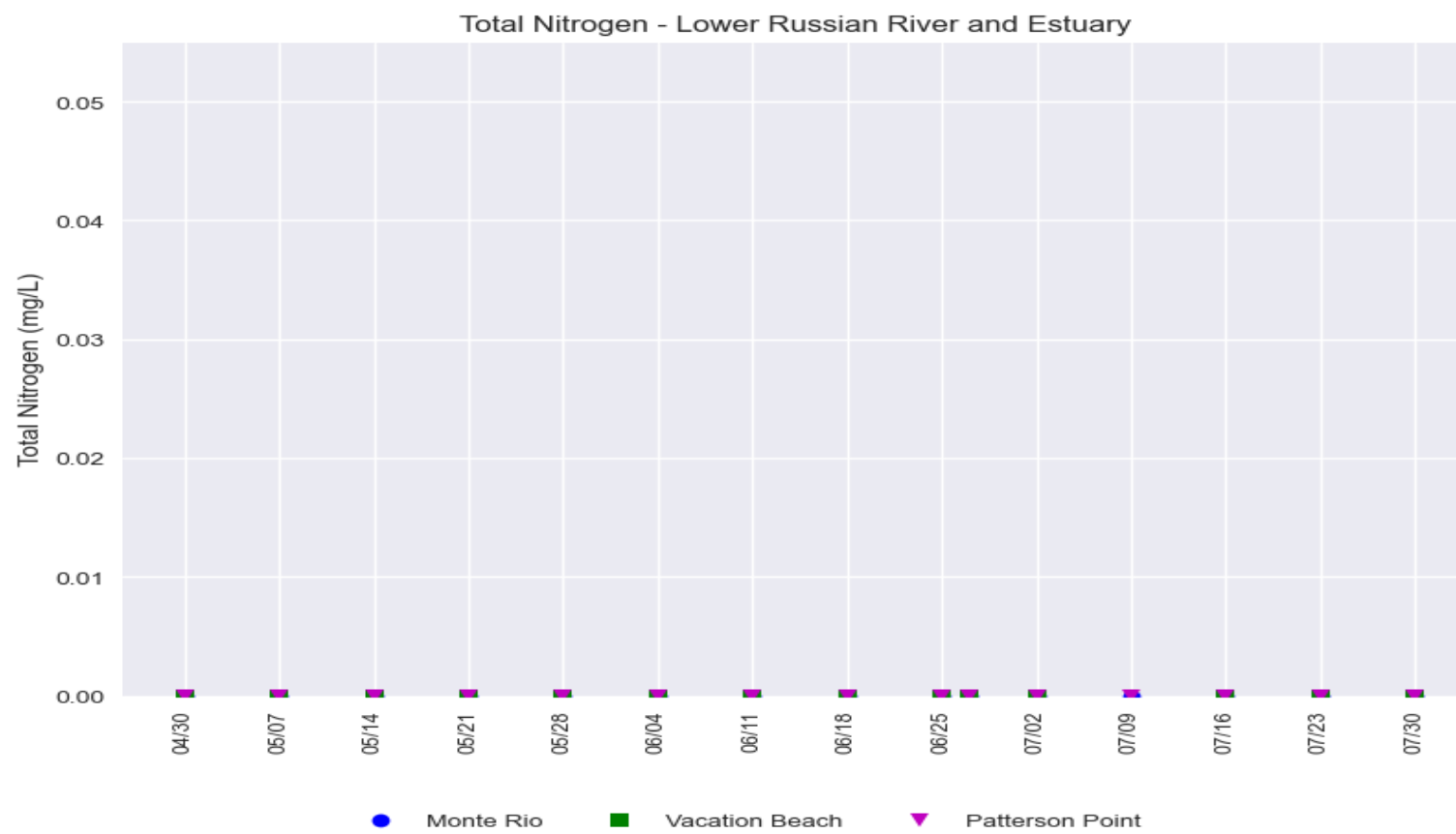
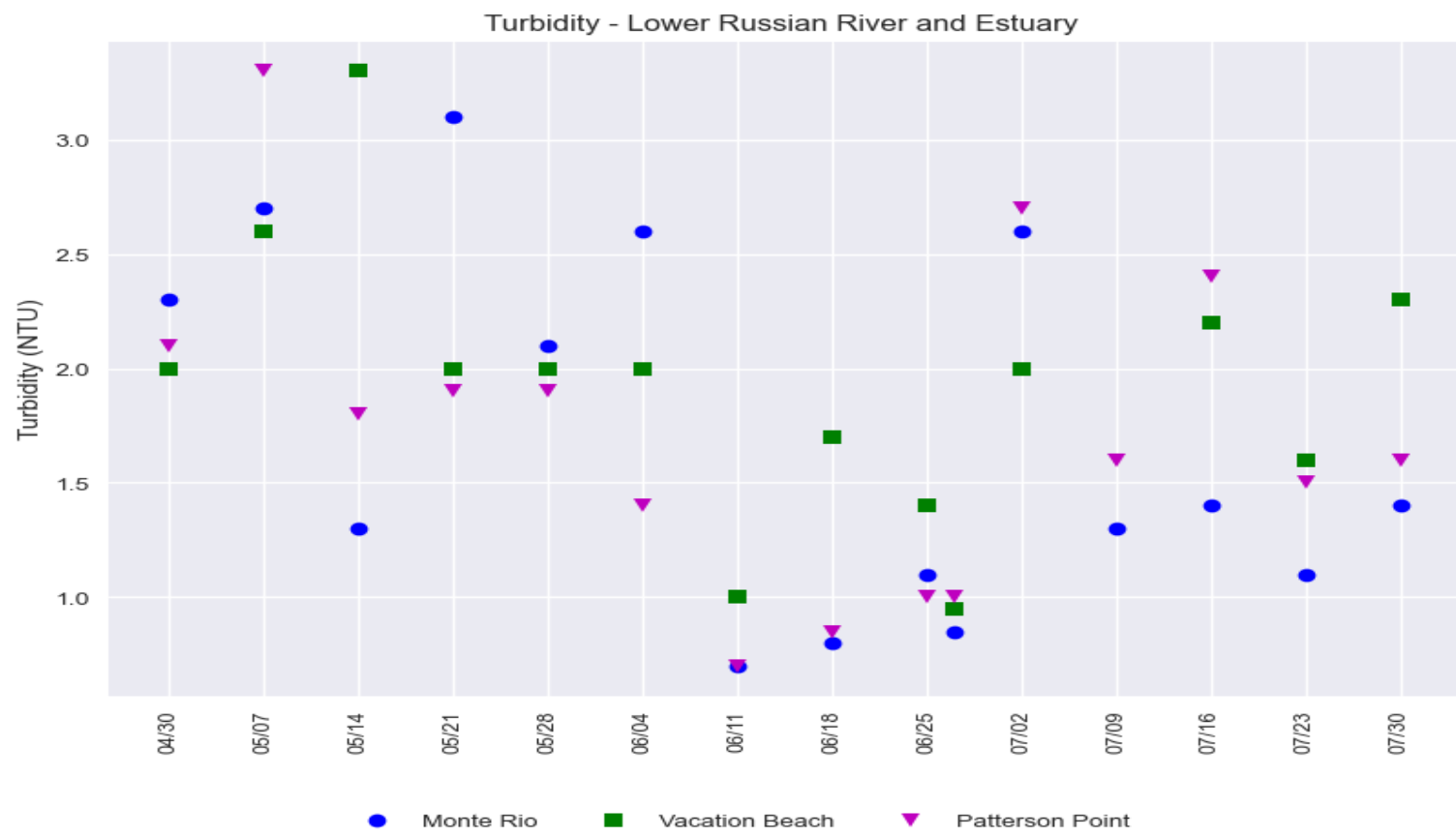
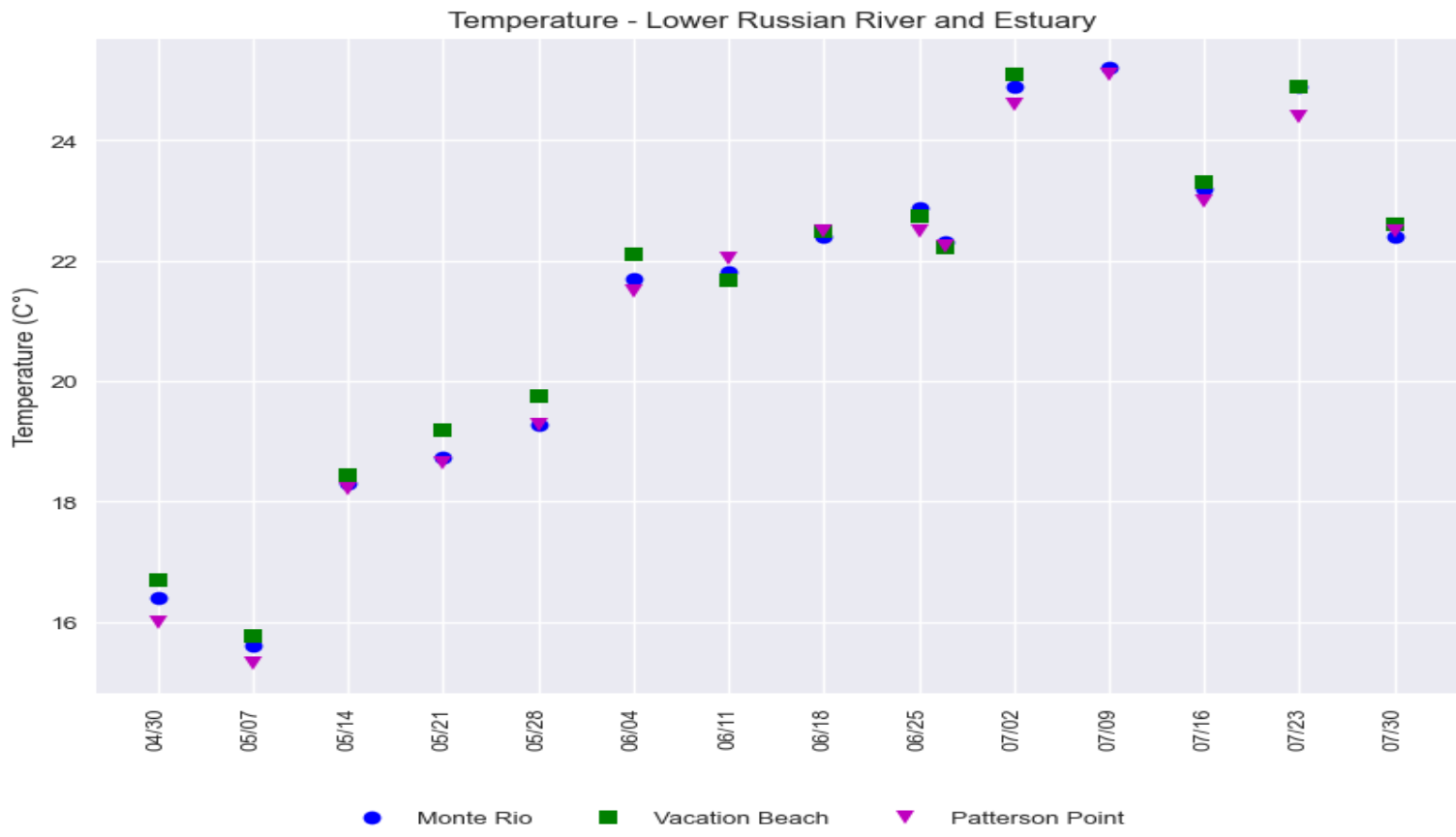
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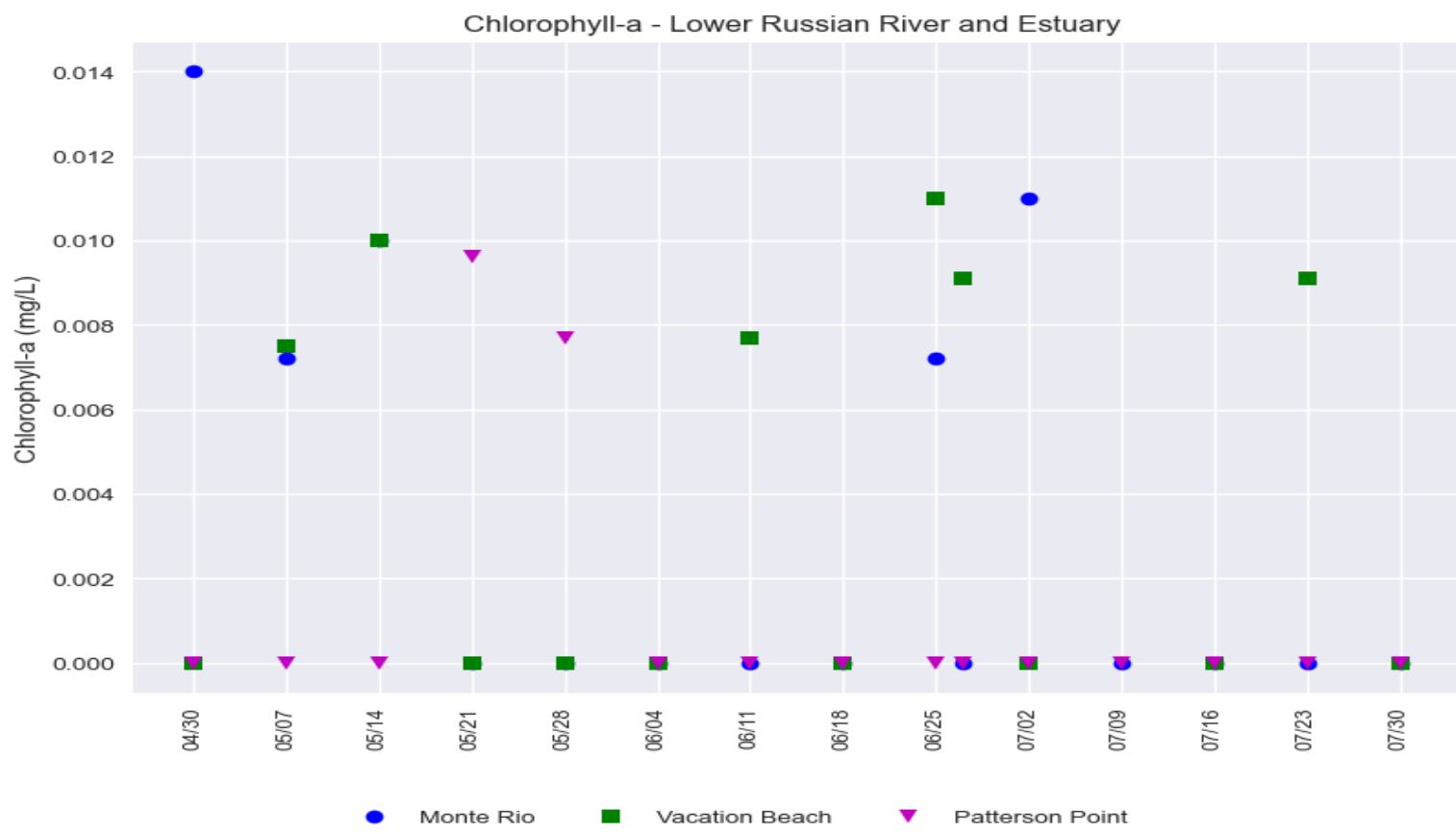
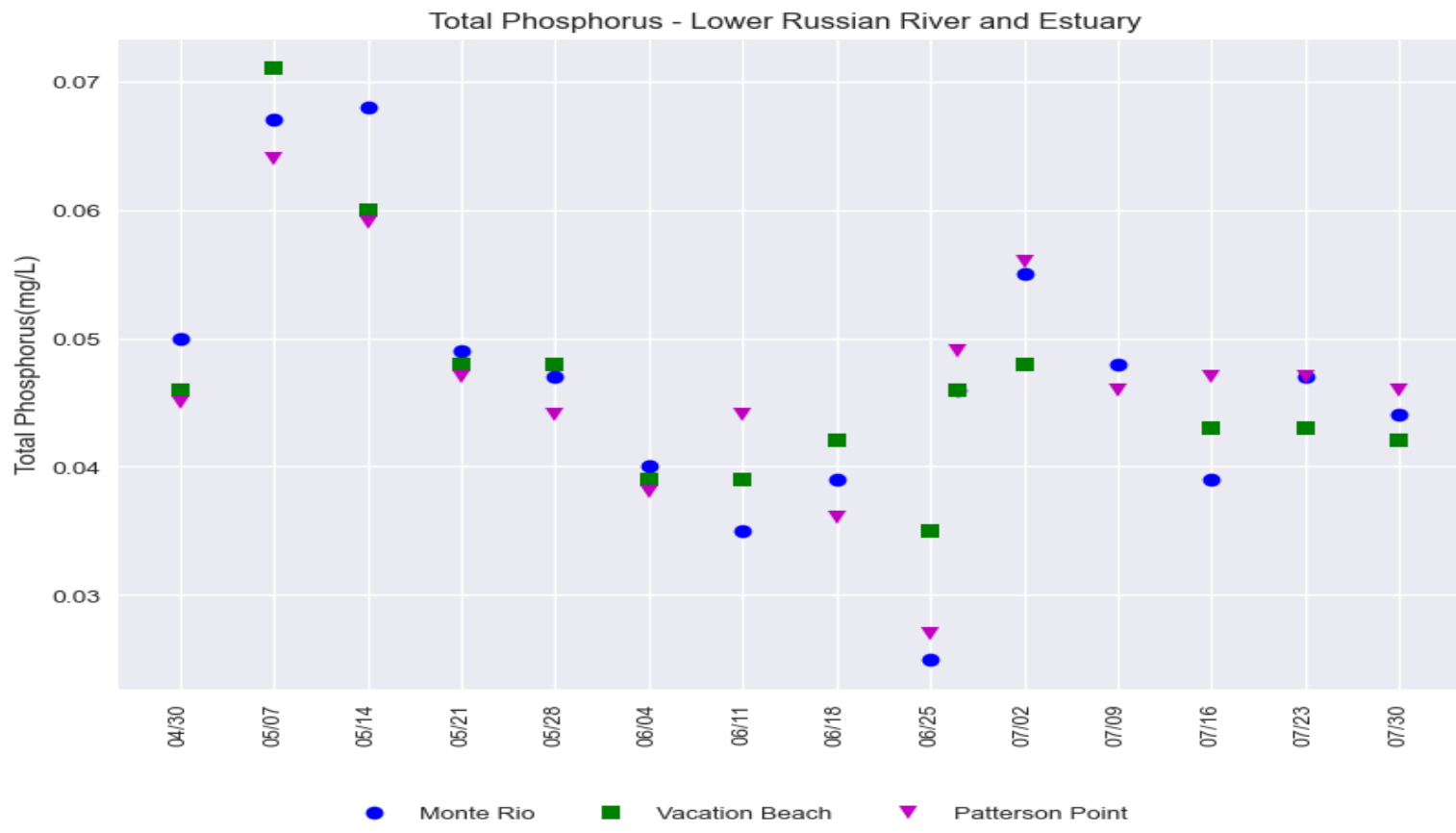
Russian River Water Quality Grab Samples

Provisional Data Subject to Revision



Russian River Water Quality Grab Samples

Provisional Data Subject to Revision



**Russian River Water Quality Grab Samples (June 18 - August 6, 2024)
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	6/18/2024	816.4	920.8	1986.3
		6/25/2024	1782**	3076**	2282**
		6/27/2024	1607**	1722**	2382**
		7/2/2024	4352**	5794**	2613**
		7/16/2024	6131**	3076**	2909**
		7/23/2024	3448**	3255**	1789**
		7/30/2024	1299.7	1732.9	1553.1
		8/6/2024	1789**	2282**	1553**
E. Coli MPN/100 mL	235	6/18/2024	25.6	27.5	25.6
		6/25/2024	39.3	62.4	14.8
		6/27/2024	44.1	56.3	34.5
		7/2/2024	101.2	105	11
		7/16/2024	21.1	4.1	16
		7/23/2024	29.2	25.9	14.6
		7/30/2024	21.1	21.1	20
		8/6/2024	20.1	6.3	6.3
Enterococcus MPN/100 mL****	61	6/18/2024	12.1	23.8	14.5
		6/25/2024	34.1	96	27.9
		6/27/2024	16.9	16	19.3
		7/2/2024	34.1	238.2	24.6
		7/16/2024	5.2	1	3.1
		7/23/2024	21.3	9.7	1
		7/30/2024	14.5	5.2	7.5
		8/6/2024	6.3	1	<1.0

*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

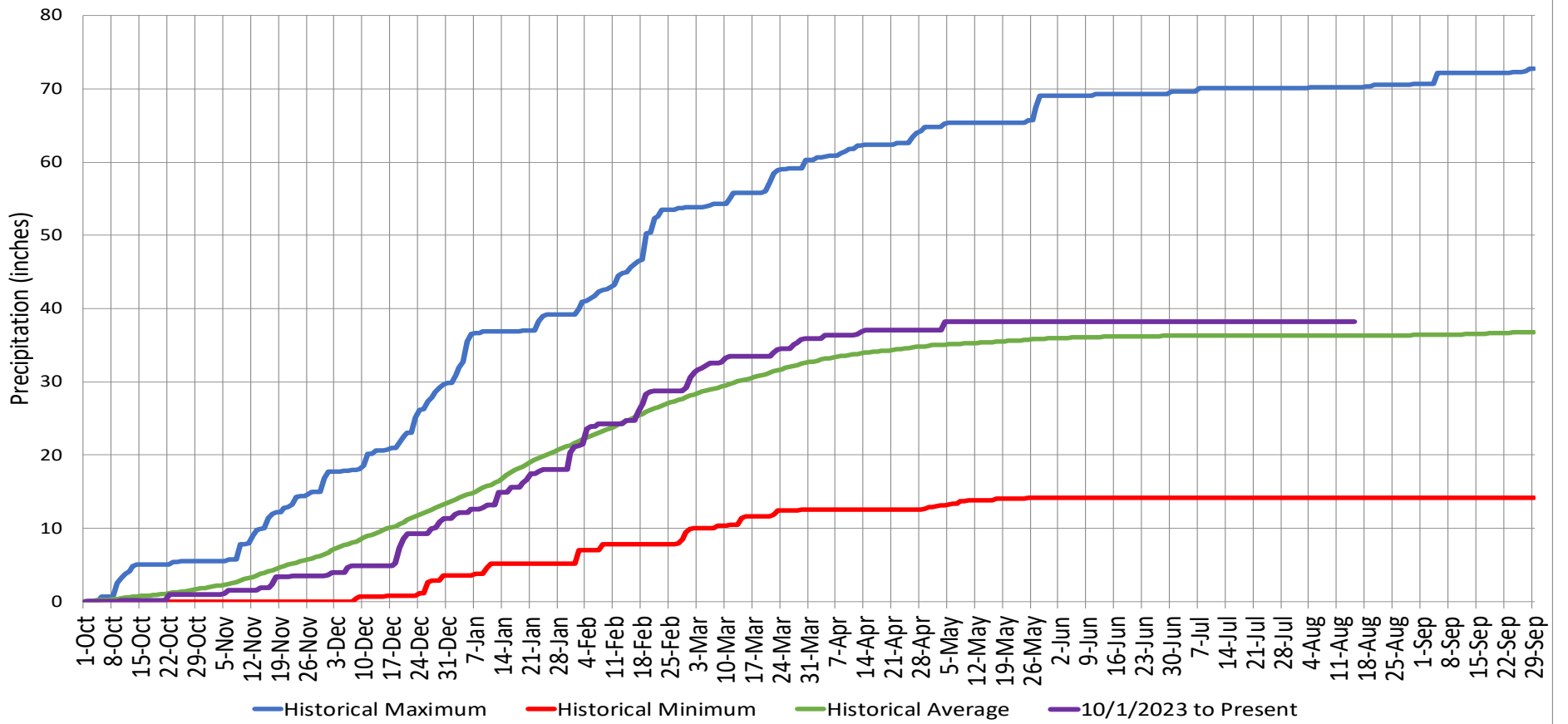
****We continue to collect enterococcus data, however it is not a reliable fecal indicator bacteria in freshwater environments and is not being relied upon for posting at freshwater beaches, per SoCo DHS and NCRWQCB.

Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

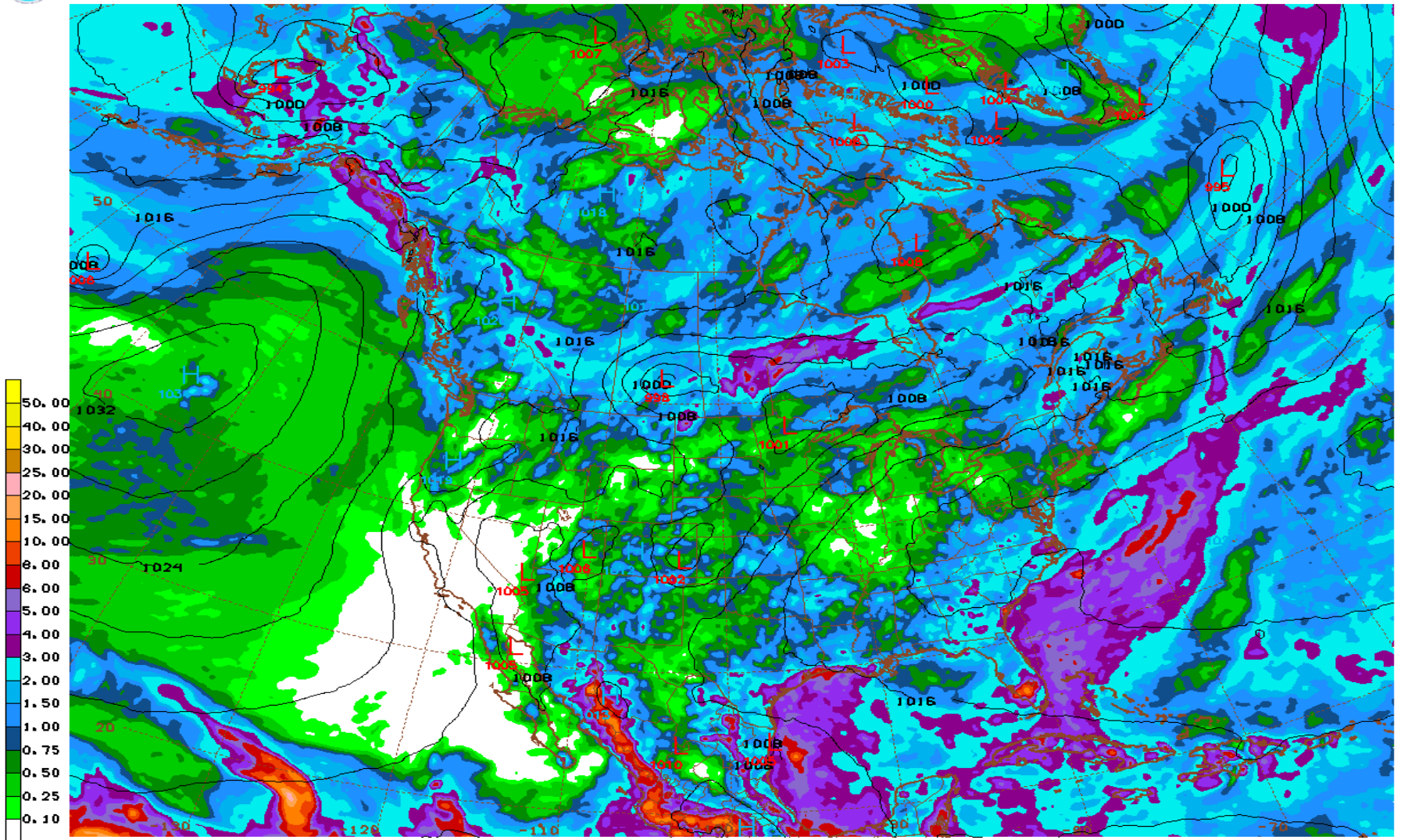
Date Range	Cumulative (inches)
Oct 1, 2023 - Aug 15, 2024	38.22
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

6FS 08/19/24 12UTC 384HR FCST VALID WED 09/04/24 12UTC NOAA/NWS/NCEP



6FS WED 240904/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Aug 19 - Sep 4, 2024

Forecasted Cumulative (inches)
0.00