State Water Resources Control Board
Temporary Urgency Change Orders (6/6/2024)

Russian River Hydrologic & Water Quality Report
October 11, 2024 - October 17, 2024

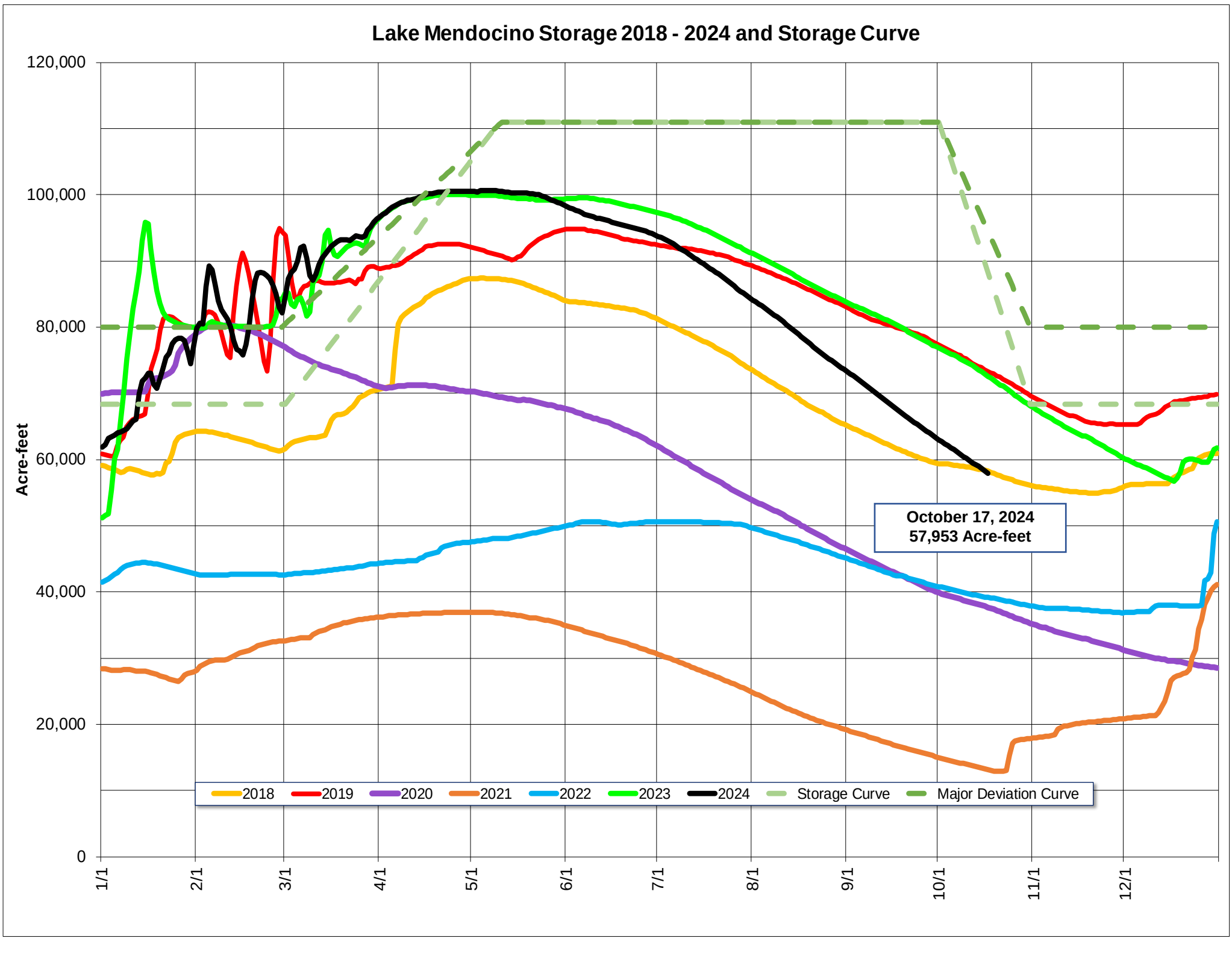
Prepared as a requirement of the Orders approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of October 17, 2024

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	**150**	**-**
D-1610: Normal Condition	Dry Creek	**80**	**-**
Modified Per Order: Normal Condition	Lower Russian River	**125**	**-**

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

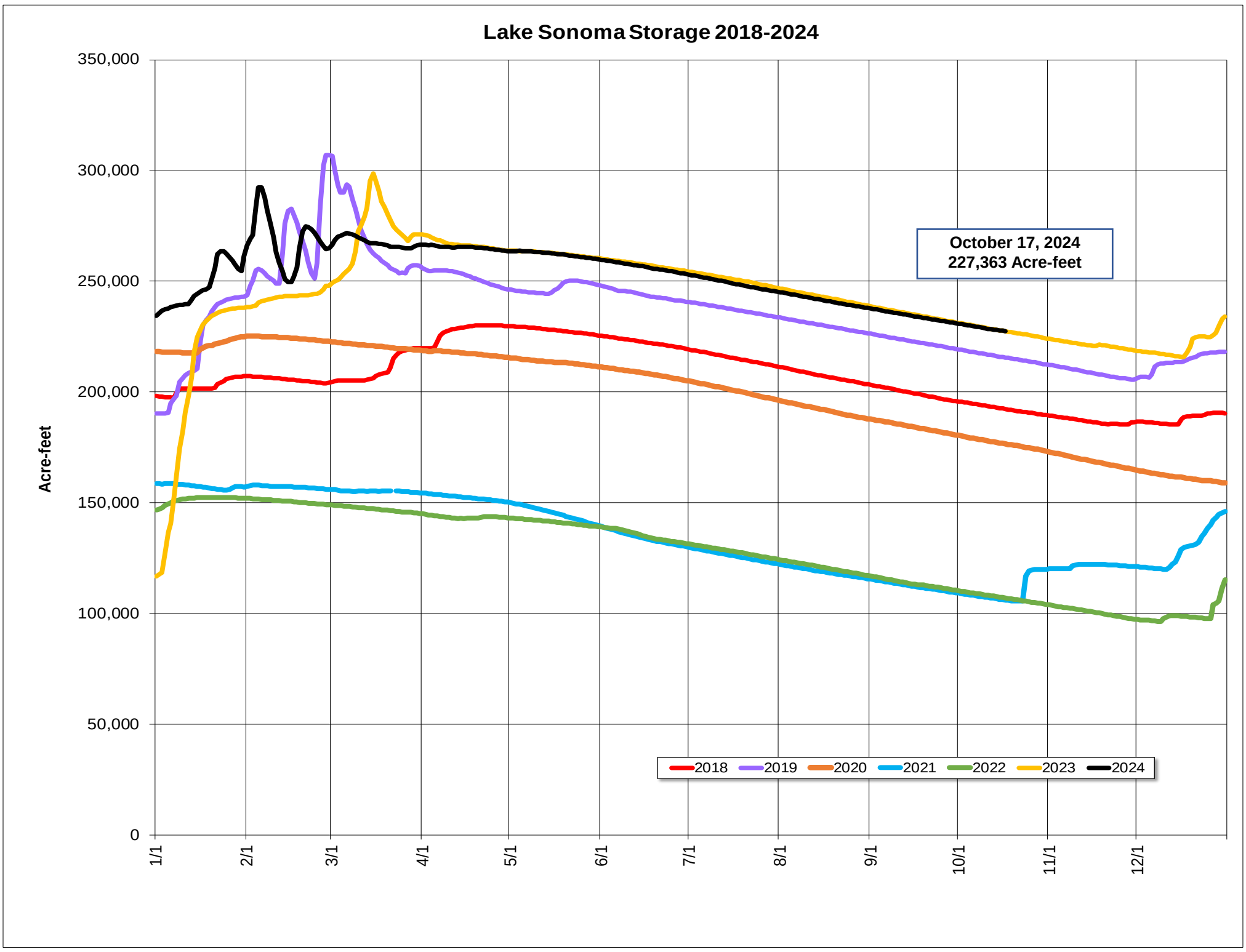
Lake Mendocino



Storage (acre-feet)	October 17, 2024	**57,953**	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	**-9,657**	**-322**
	Last 7 days	**-1,873**	**-268**
Daily Inflow (cfs)	Last 7 days	Min	**37**
		Max	**63**
		Mean	**47**
Release (cfs)	Last 7 days	Min	**189**
		Max	**199**
		Mean	**192**

Lake Sonoma

Todd Schram, February 10 , 2024



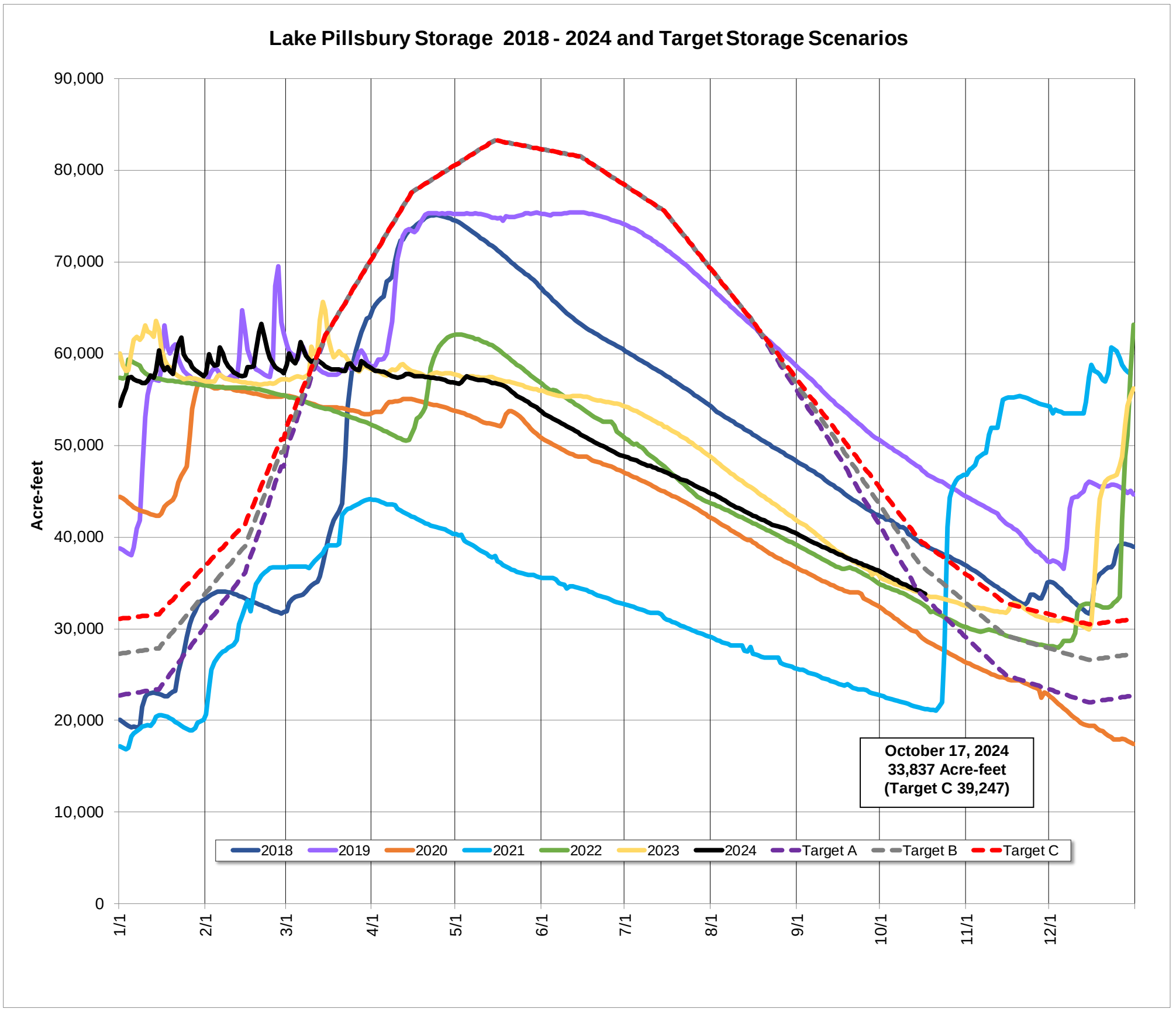
Storage (acre-feet)	October 17, 2024	**227,363**	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	**-6,586**	**-220**
	Last 7 days	**-1,458**	**-208**
Daily Inflow (cfs)	Last 7 days	Min	**0**
		Max	**38**
		Mean	**7**
Release (cfs)	Last 7 days	Min	**96**
		Max	**97**
		Mean	**97**

Potter Valley Project

PVP Diversion (cfs)	October 17, 2024	**45**

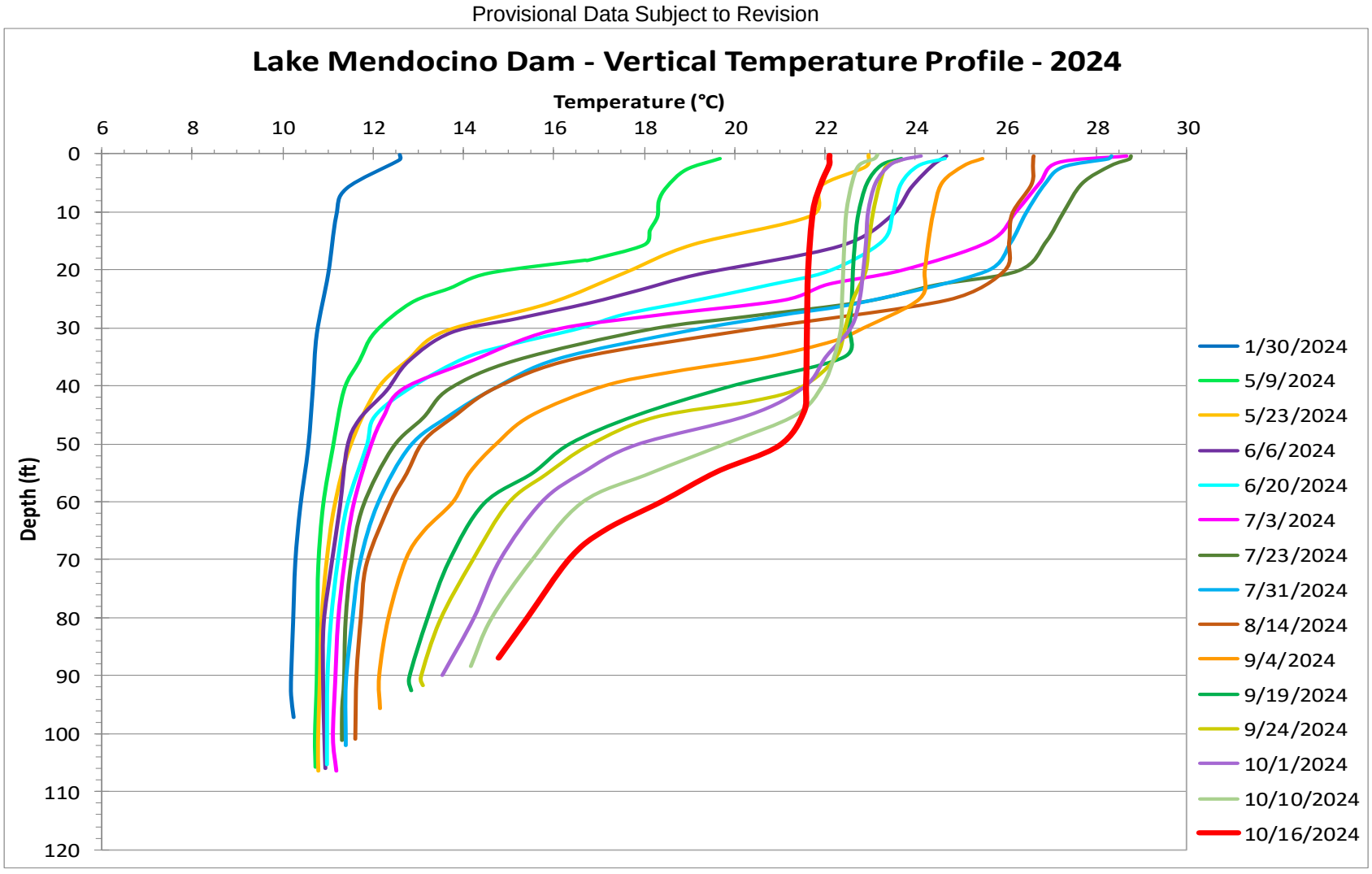
Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - October 17, 2024	**580**	**34**
	Last 7 days	**243**	**35**

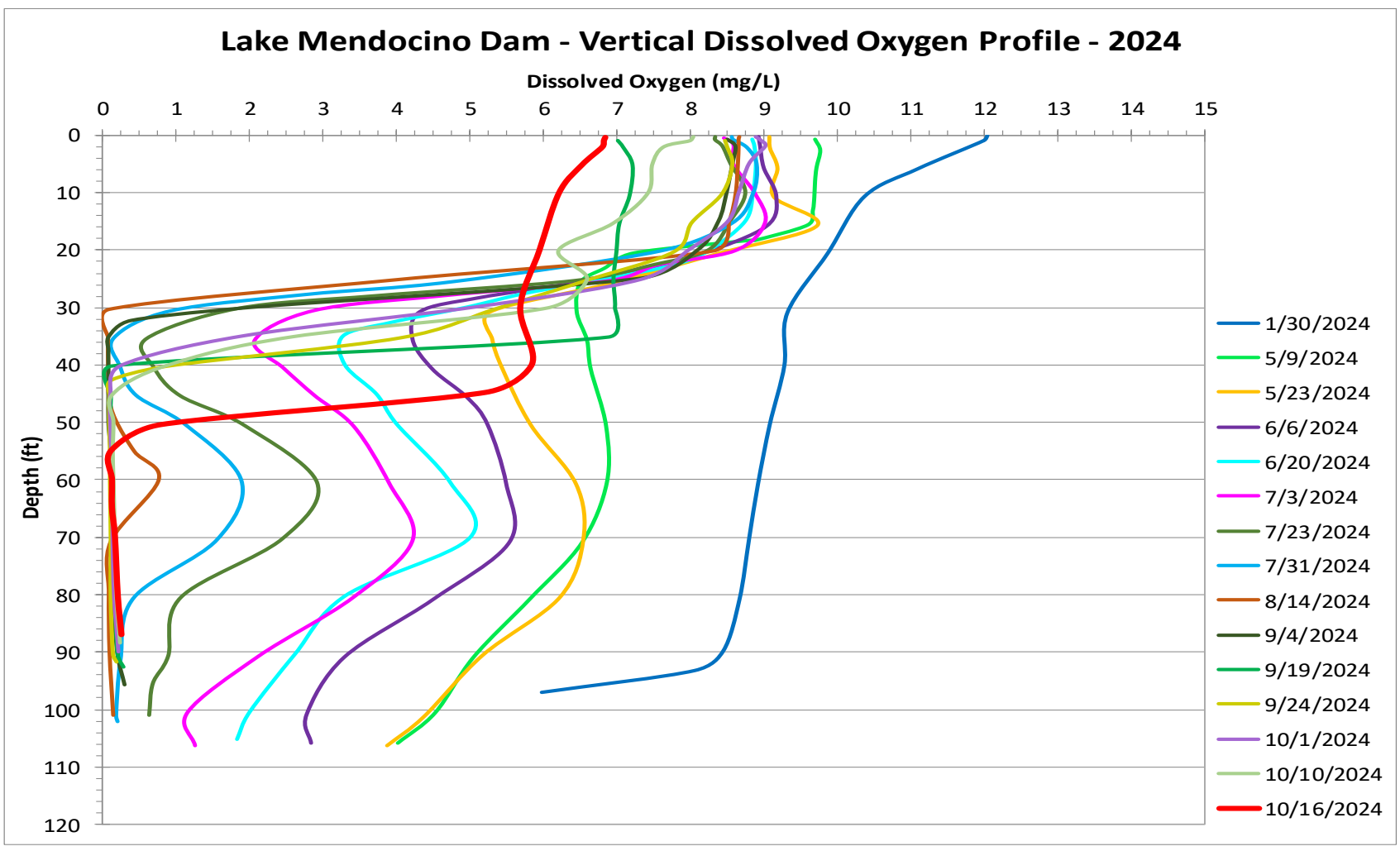
*Inflow calculation based on criteria established in D1610

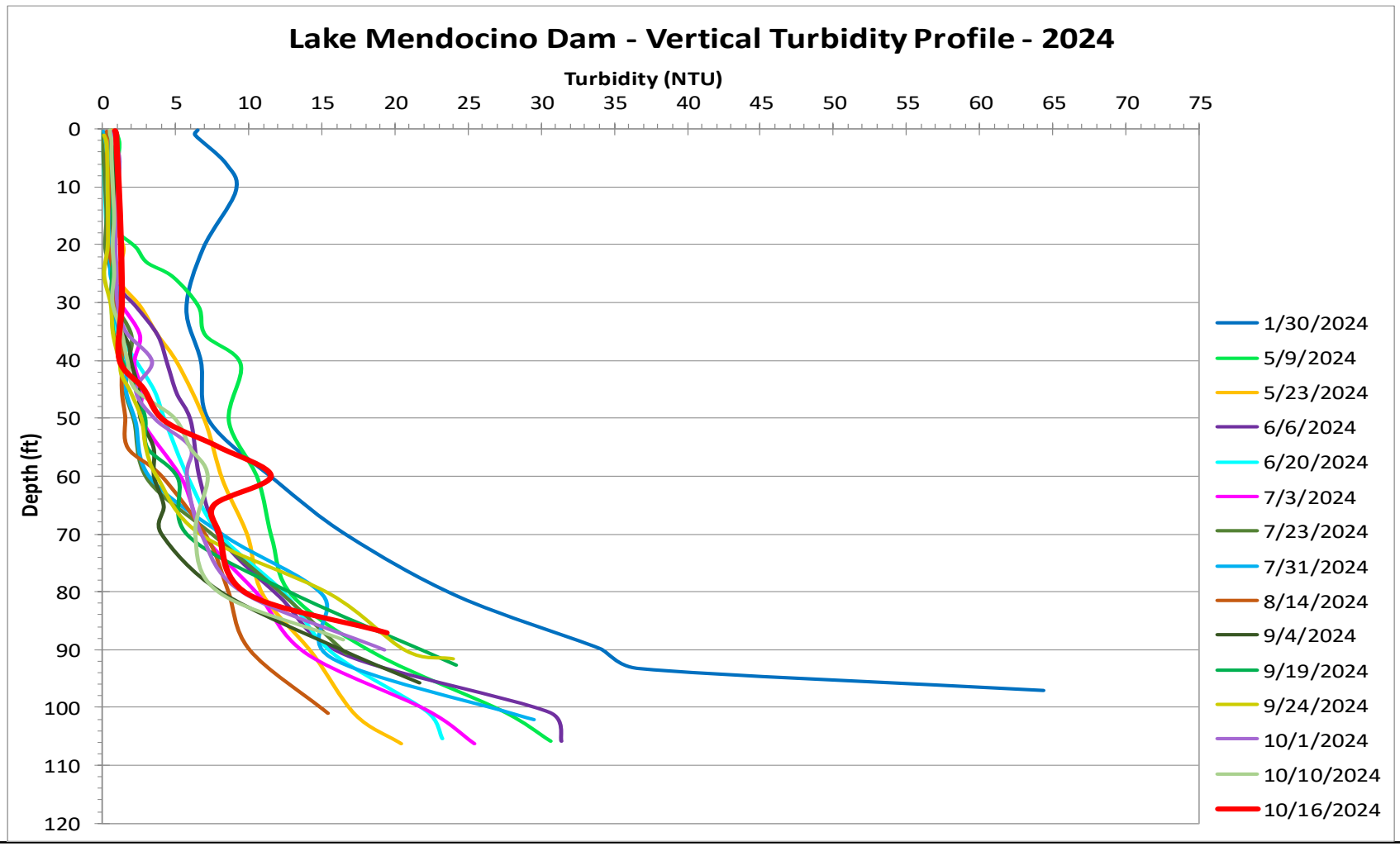


Lake Mendocino Water Quality Vertical Profiles (January 30 – October 16, 2024)

Provisional Data Subject to Revision



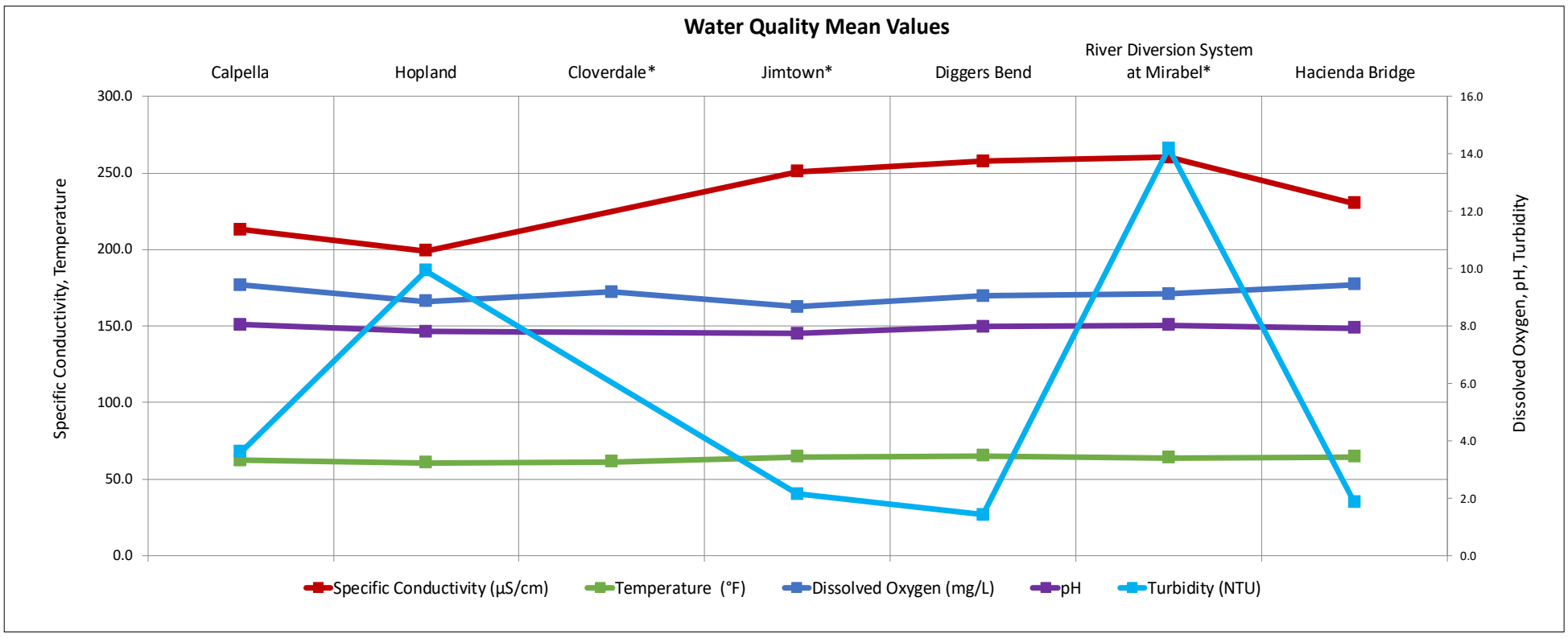




Russian River Flows (October 11, 2024 - October 17, 2024)

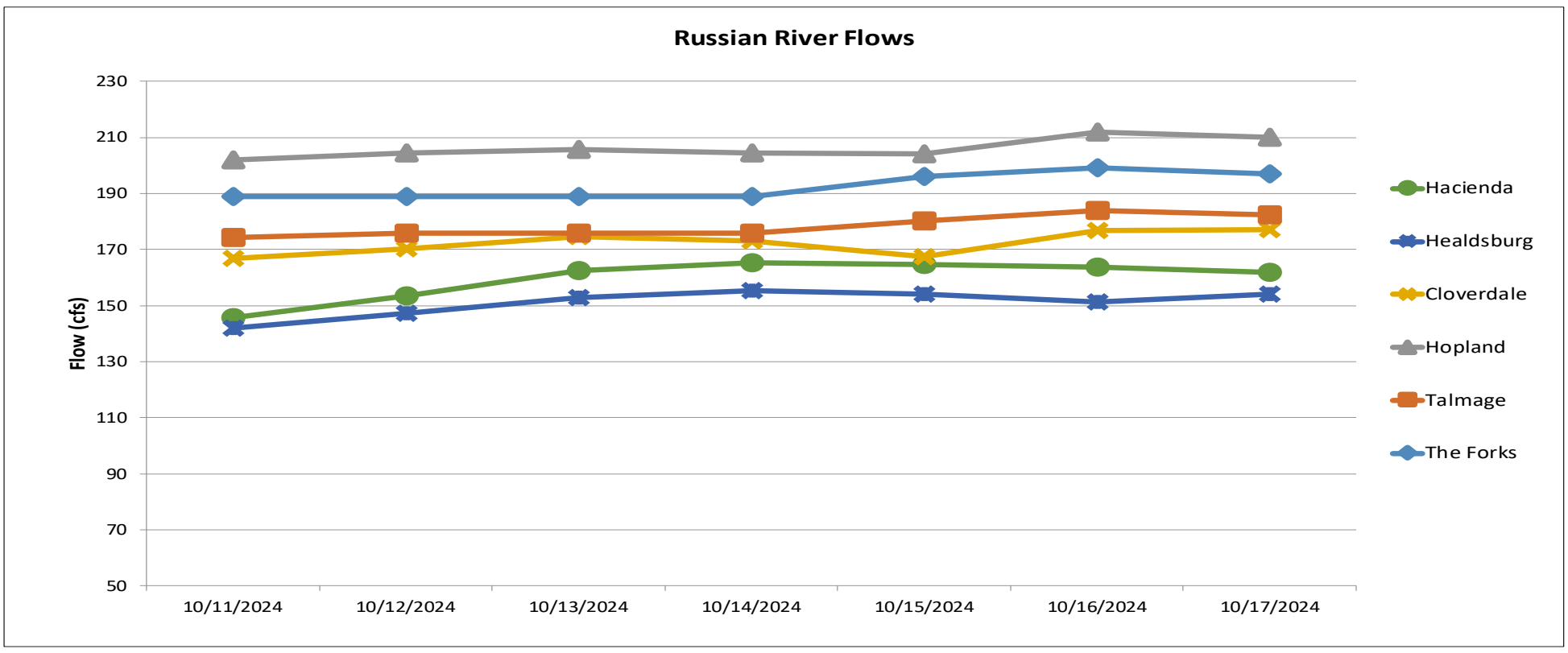
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	59.5	57.7	59.2	62.2	63.0	62.4	62.6	
	Max	64.9	62.6	63.9	66.7	68.0	65.6	66.9	
	Mean	62.3	60.5	61.2	64.4	65.2	63.8	64.3	
Specific Conductivity (µS/cm)	Min	210.0	198.0		249.0	256.0	233.8	228.0	
	Max	217.0	200.0		253.0	261.0	289.0	232.0	
	Mean	213.1	199.1		250.8	257.8	260.2	230.1	
Dissolved Oxygen (mg/L)	Min	9.0	8.4	8.6	7.4	7.7	8.7	7.9	
	Max	10.4	9.8	10.1	10.8	10.8	9.5	10.5	
	Mean	9.4	8.9	9.2	8.7	9.0	9.1	9.4	
Dissolved Oxygen (% Saturation)	Min	92.2	84.9	87.9	77.8	81.3	91.9	82.9	
	Max	106.5	98.0	103.4	116.4	117.1	99.7	113.1	
	Mean	97.3	89.5	93.6	91.7	96.5	95.7	99.7	
pH	Min	7.9	7.7		7.6	7.7	7.9	7.6	
	Max	8.2	7.9		8.0	8.4	8.1	8.3	
	Mean	8.0	7.8		7.7	8.0	8.0	7.9	
Turbidity (NTU)	Min	1.9	8.2		1.4	0.6	12.7	0.7	
	Max	6.5	12.2		2.9	2.4	20.6	3.3	
	Mean	3.6	9.9		2.1	1.4	14.2	1.9	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Oct 11, 2024	Oct 12, 2024	Oct 13, 2024	Oct 14, 2024	Oct 15, 2024	Oct 16, 2024	Oct 17, 2024
The Forks*	189	189	189	189	196	199	197
Talmage USGS 11462080	174	176	176	176	180	184	182
Hopland USGS 11462500	202	204	206	204	204	212	210
Cloverdale USGS 11463000	167	170	175	173	167	177	177
Healdsburg USGS 11464000	142	147	153	155	154	151	154
Hacienda USGS 11467000	146	153	162	165	165	164	162

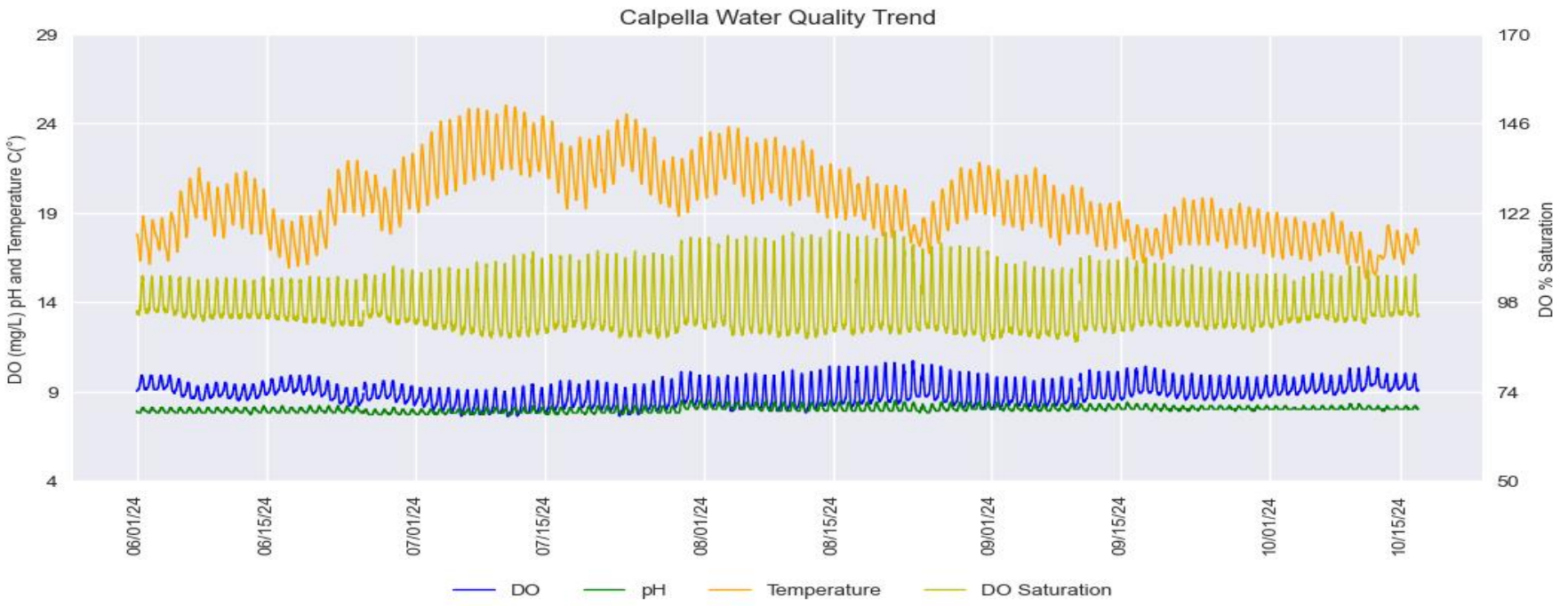
*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)

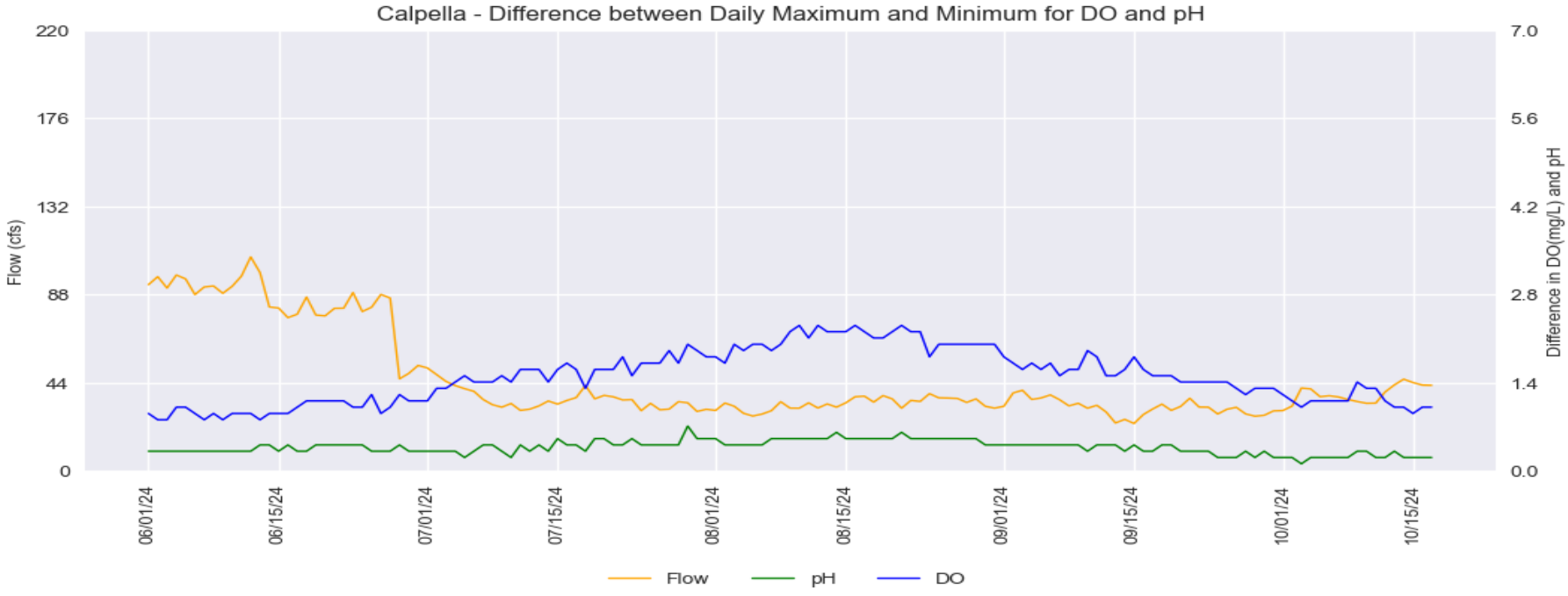


Russian River Water Quality June 1, 2024 – October 17, 2024

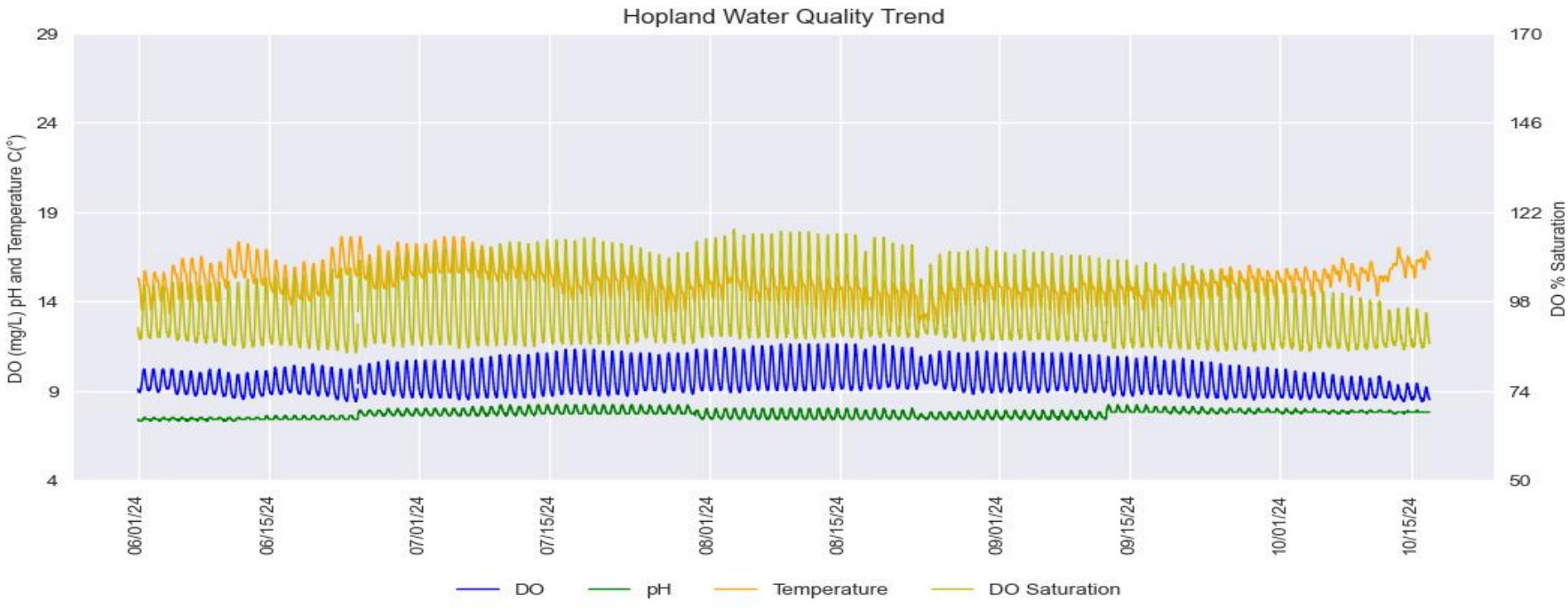
Provisional Data Subject to Revision

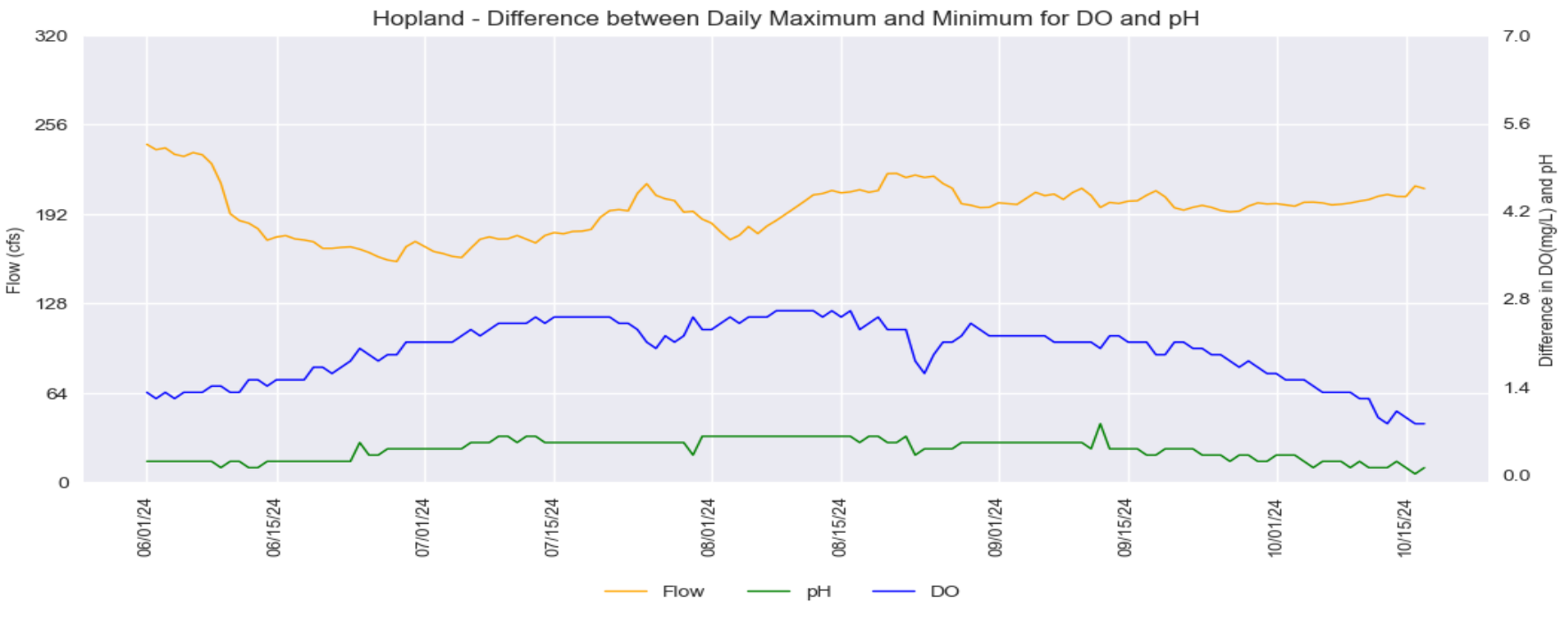
Calpella





Hopland

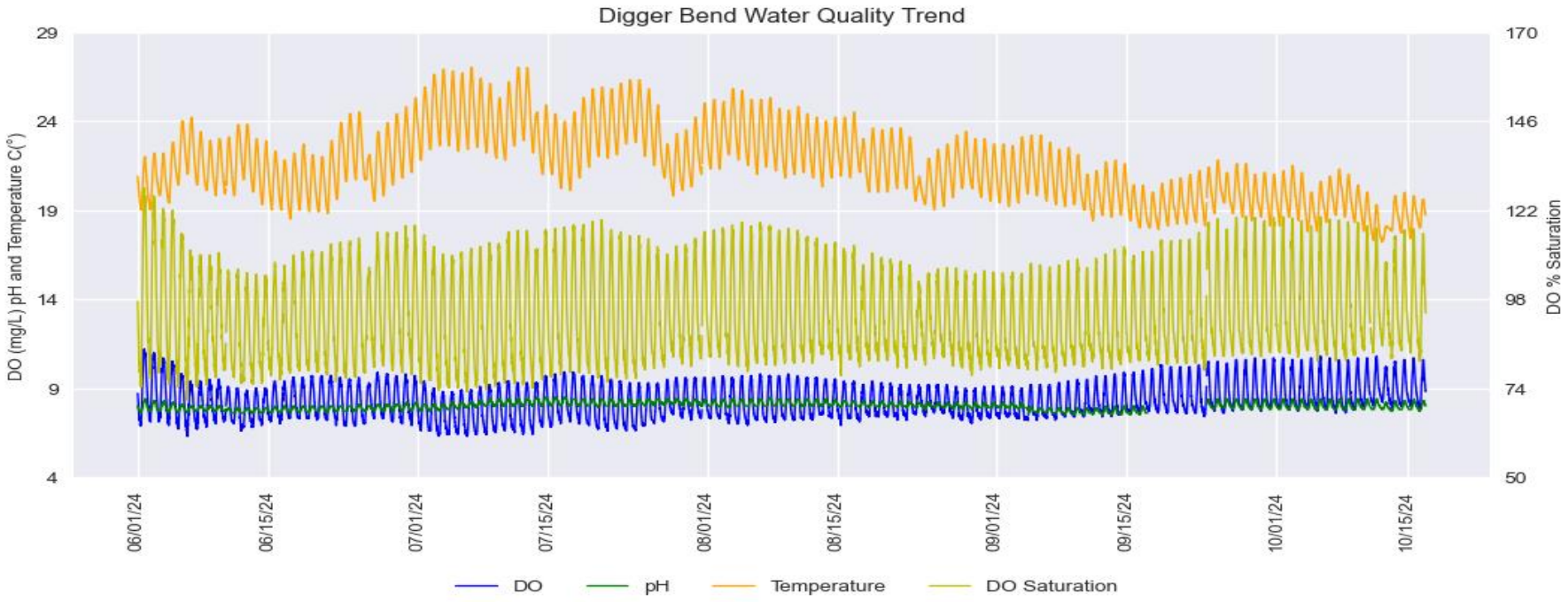


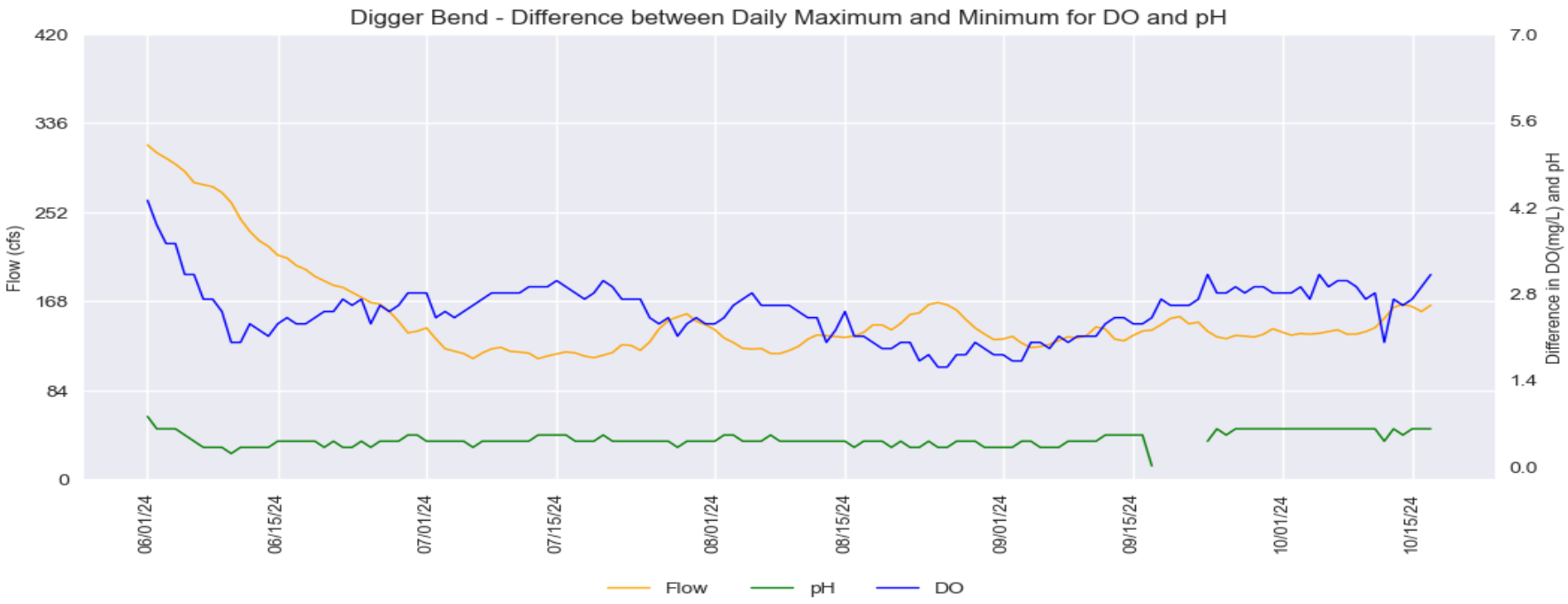


Russian River Water Quality June 1, 2024 – October 17, 2024

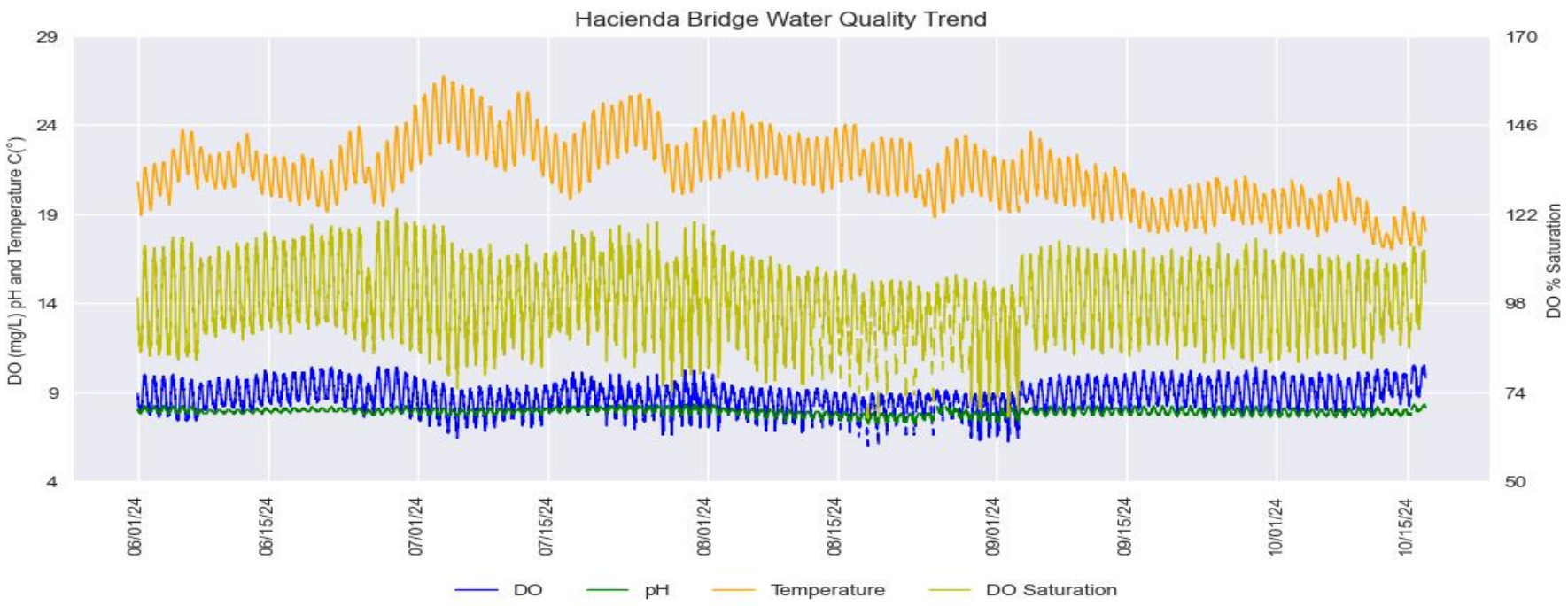
Provisional Data Subject to Revision

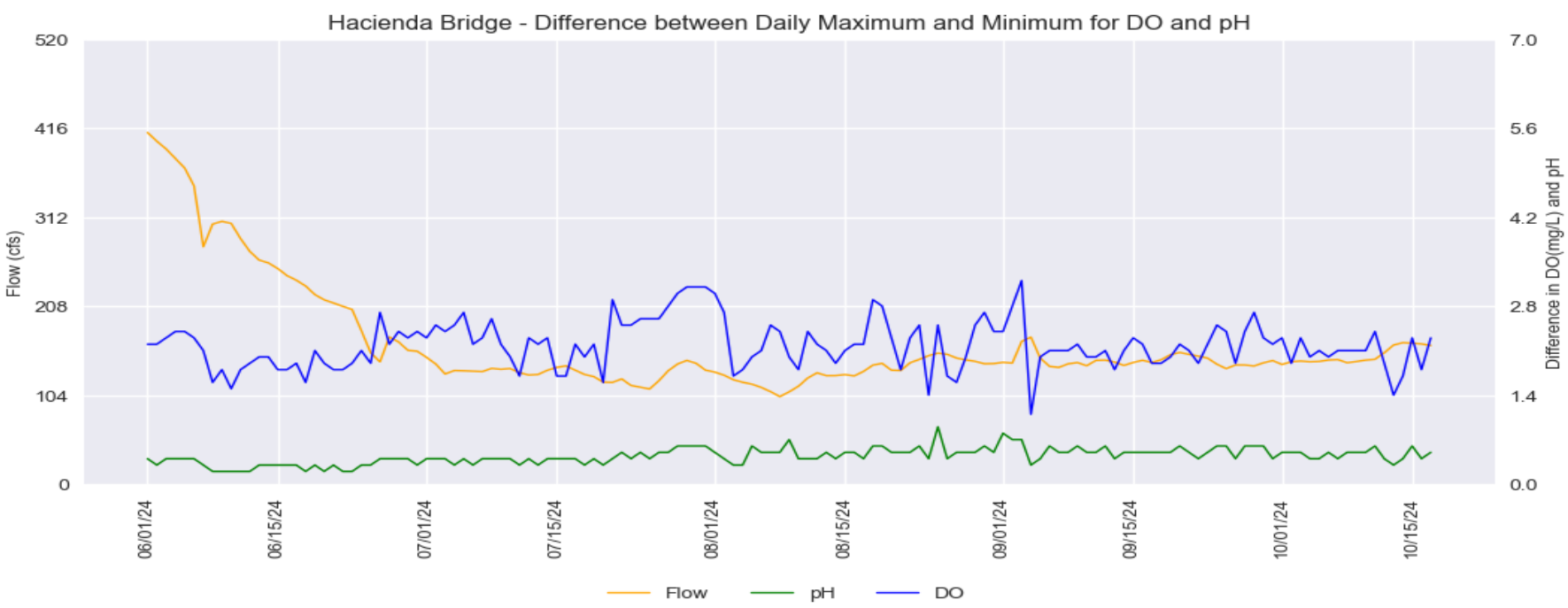
Digger Bend





Hacienda Bridge

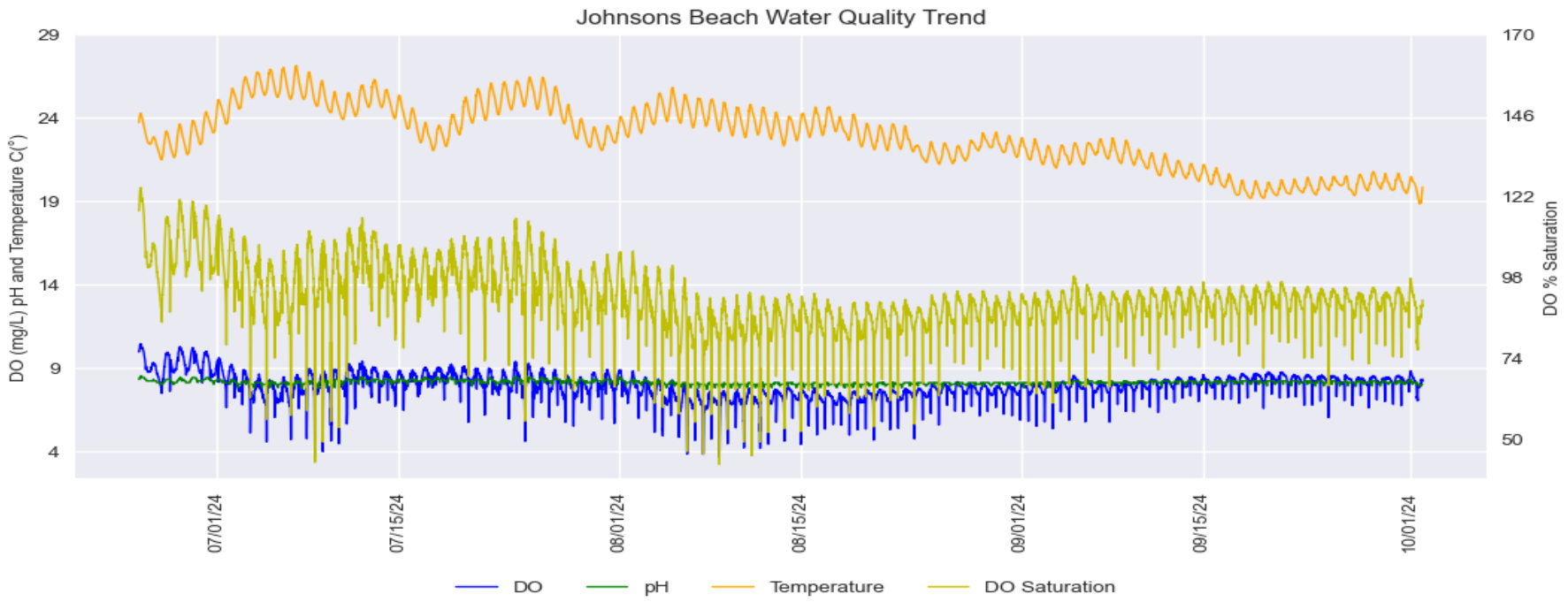


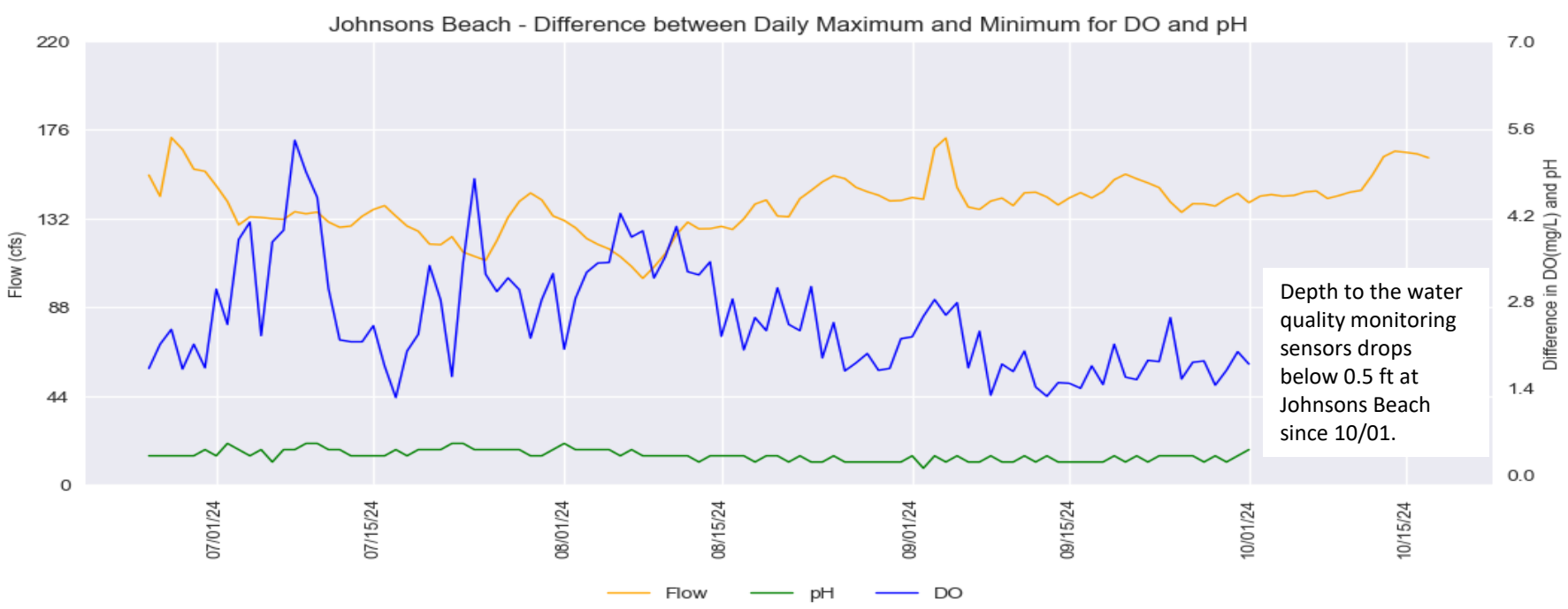


Russian River Water Quality June 24, 2024 – October 17, 2024

Provisional Data Subject to Revision

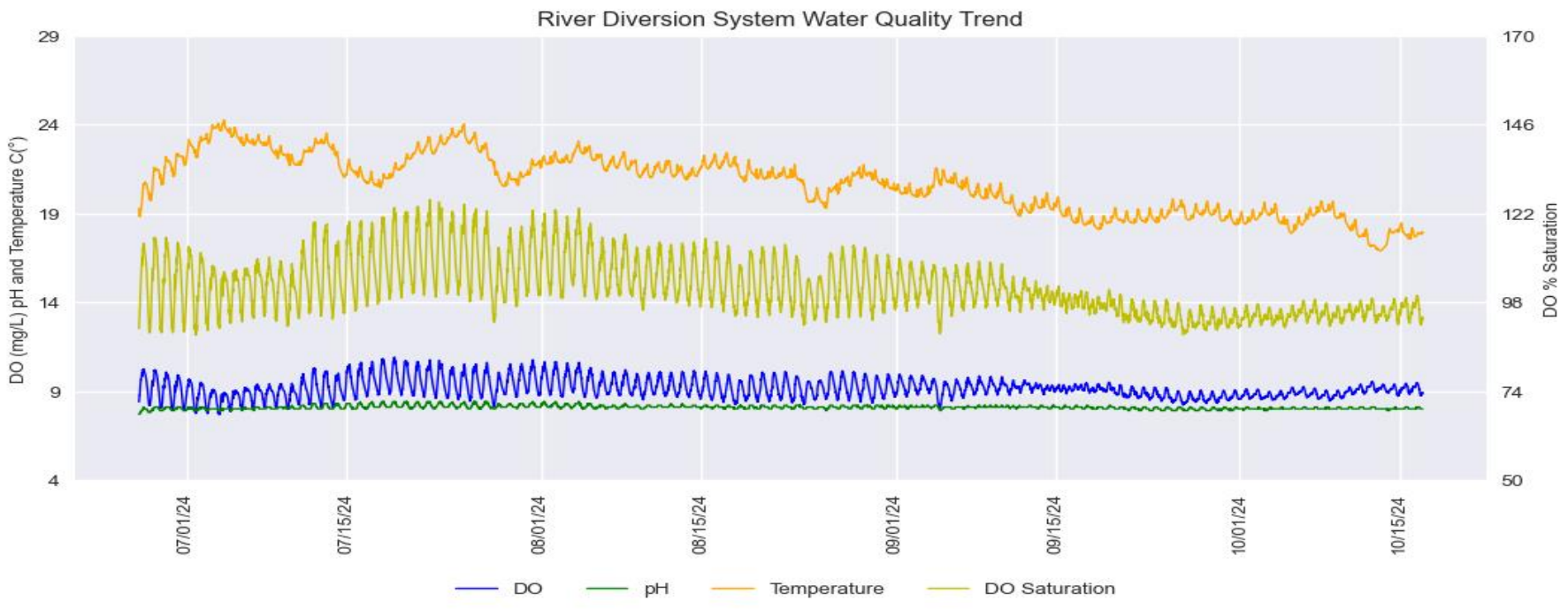
Johnsons Beach

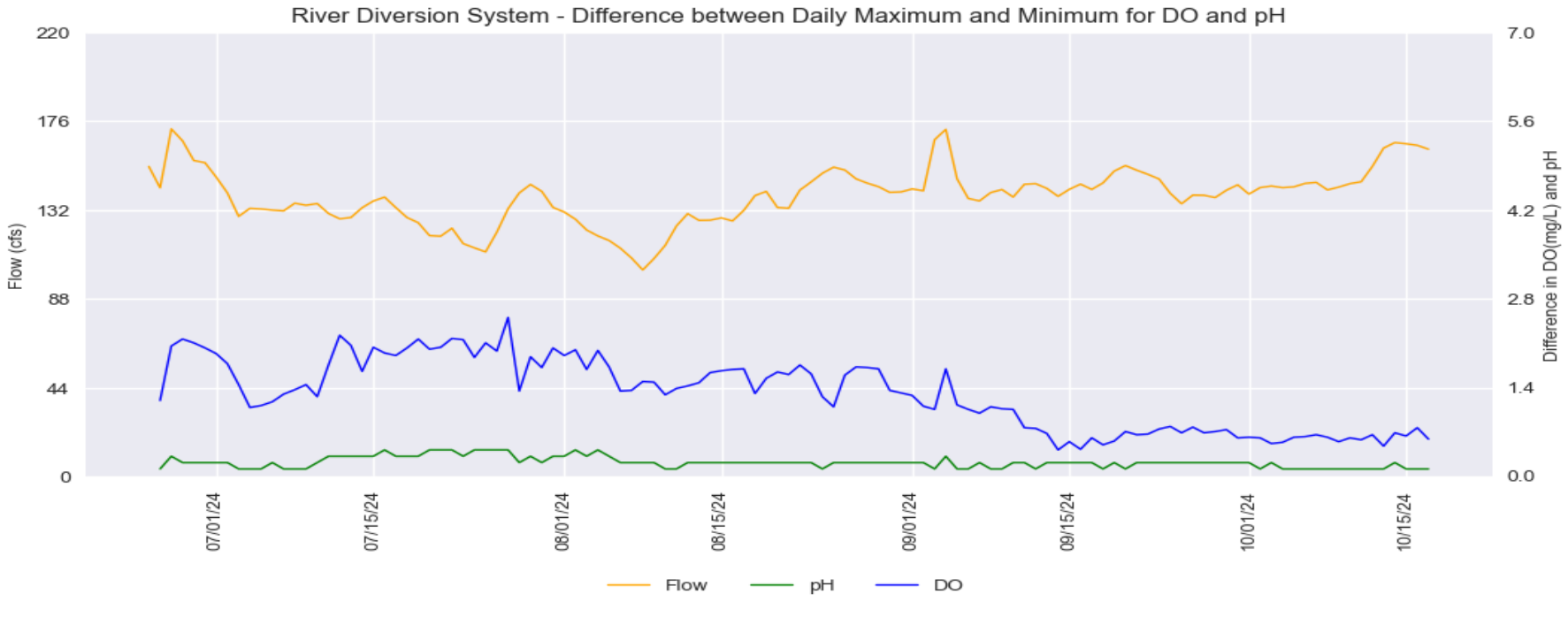




Depth to the water quality monitoring sensors drops below 0.5 ft at Johnsons Beach since 10/01.

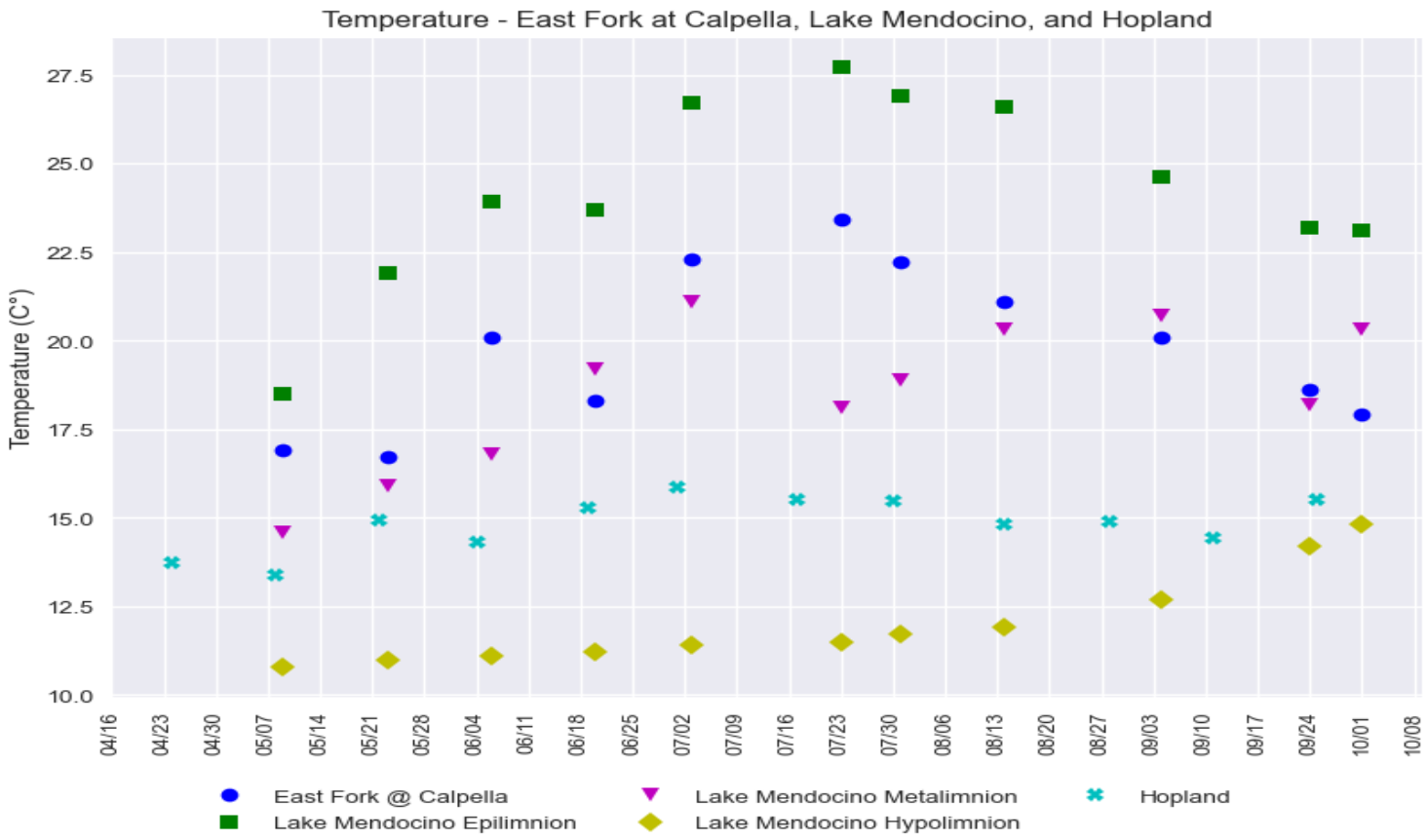
River Diversion System at Mirabel

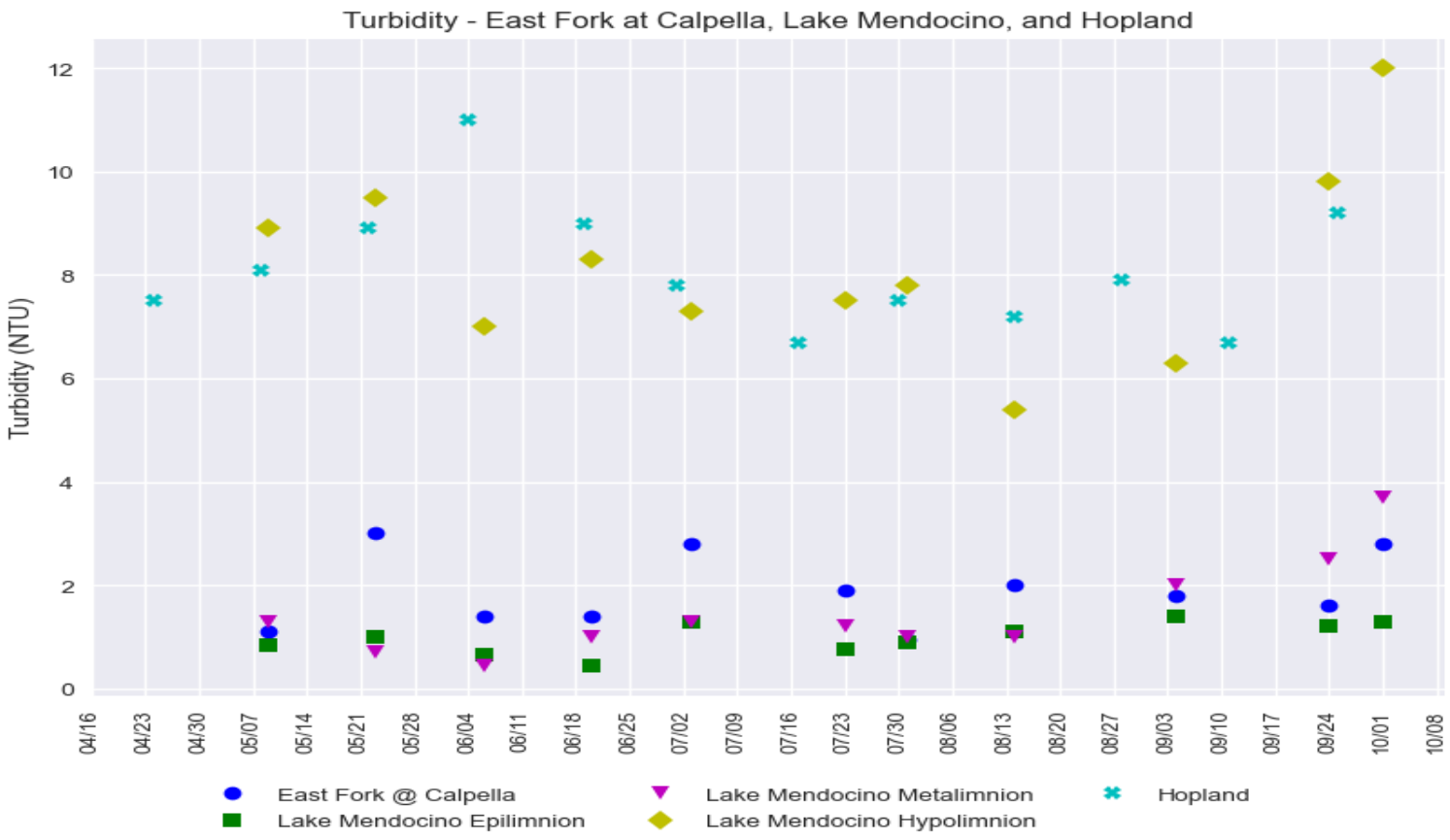


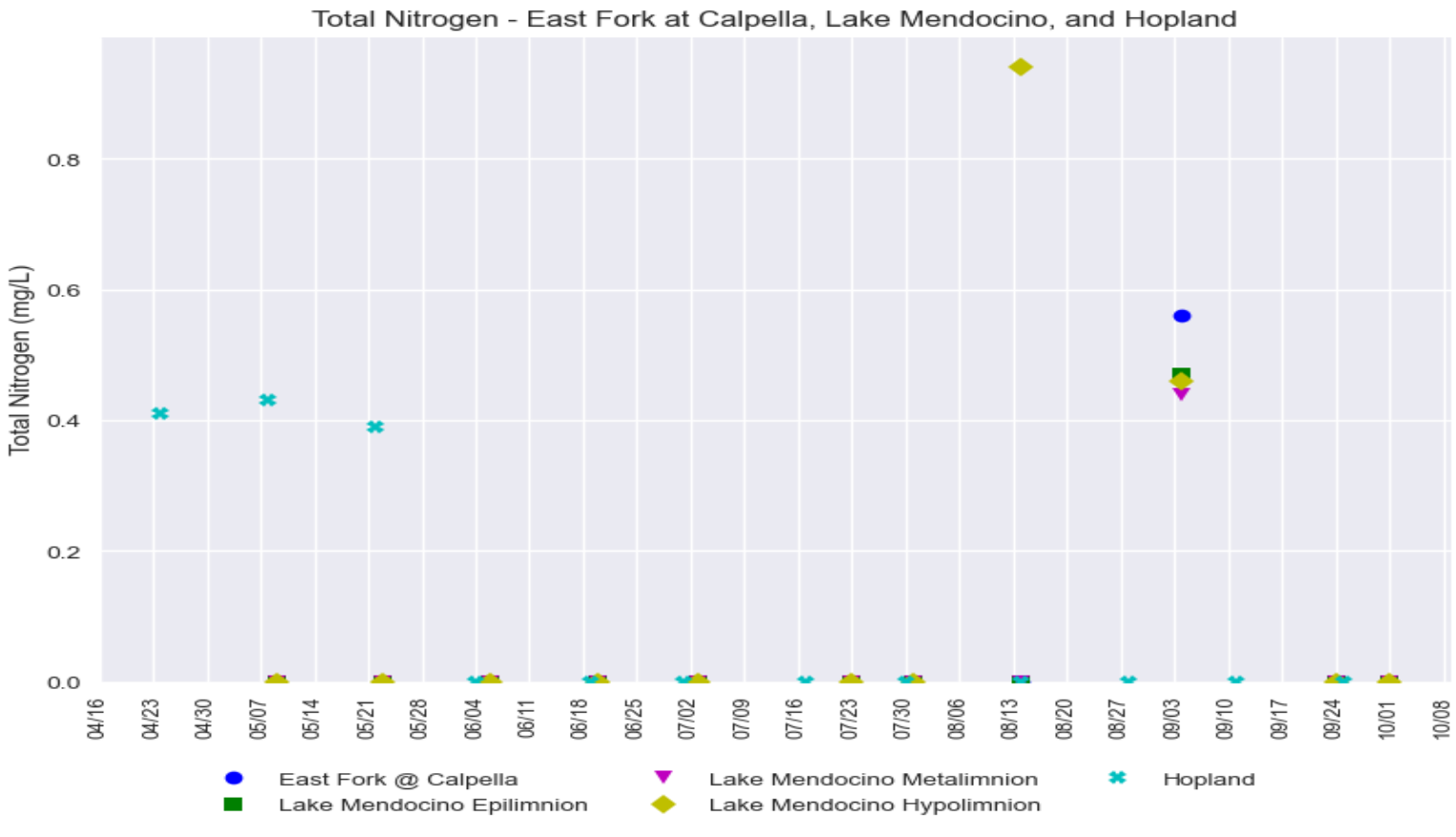


Russian River Water Quality Grab Samples

Provisional Data Subject to Revision







Russian River Water Quality Grab Samples

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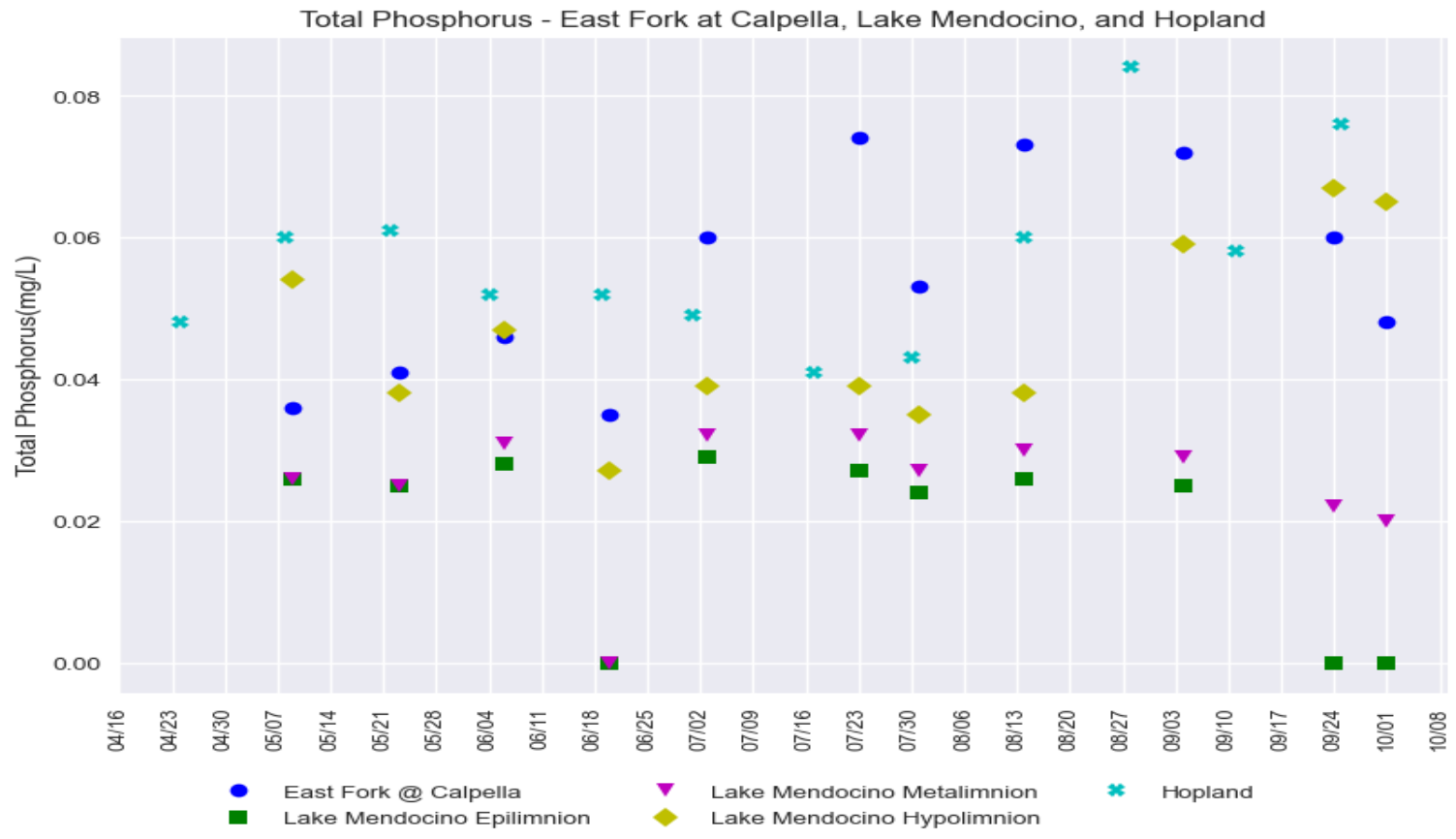

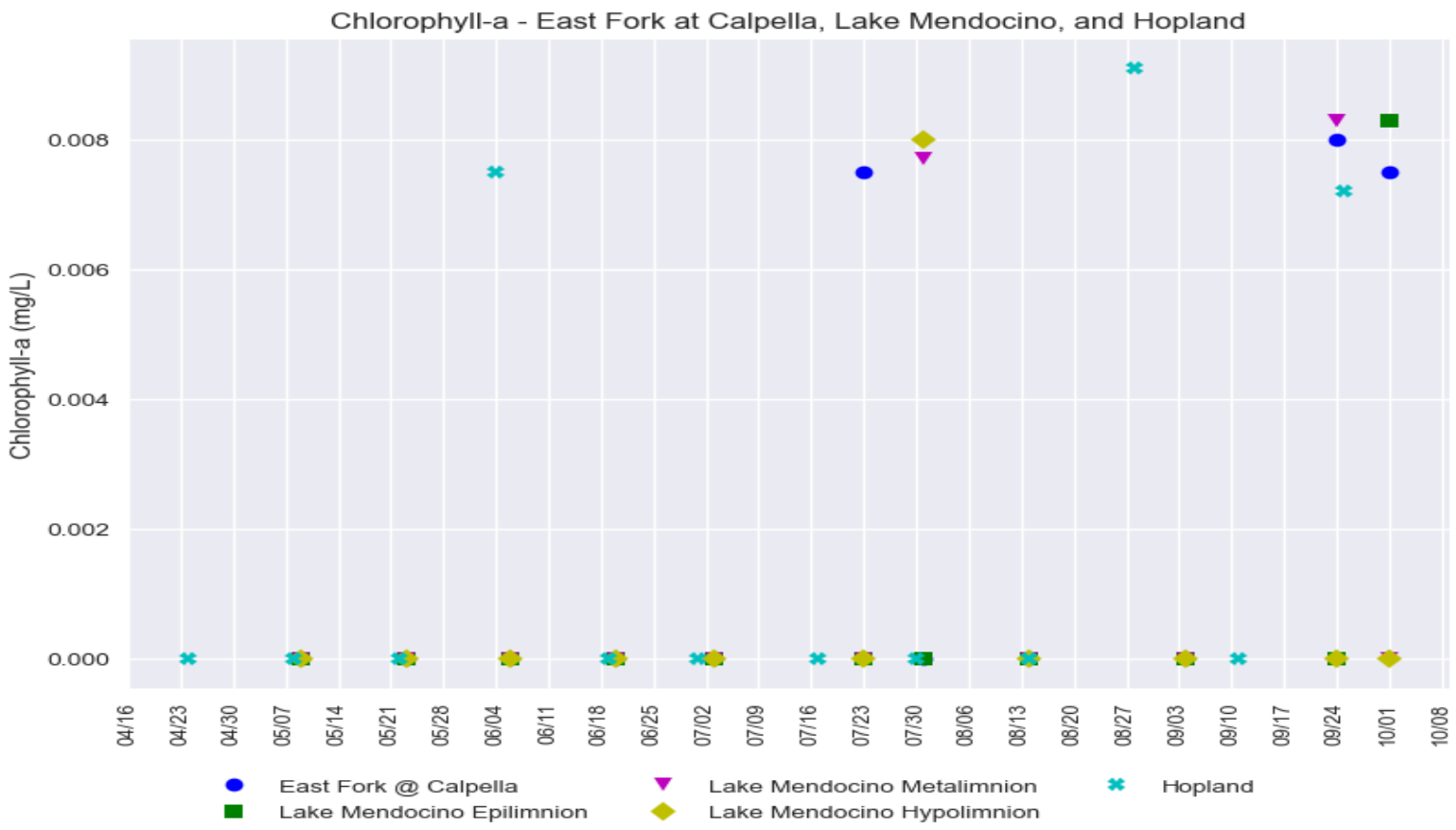

Russian River Water Quality Grab Samples

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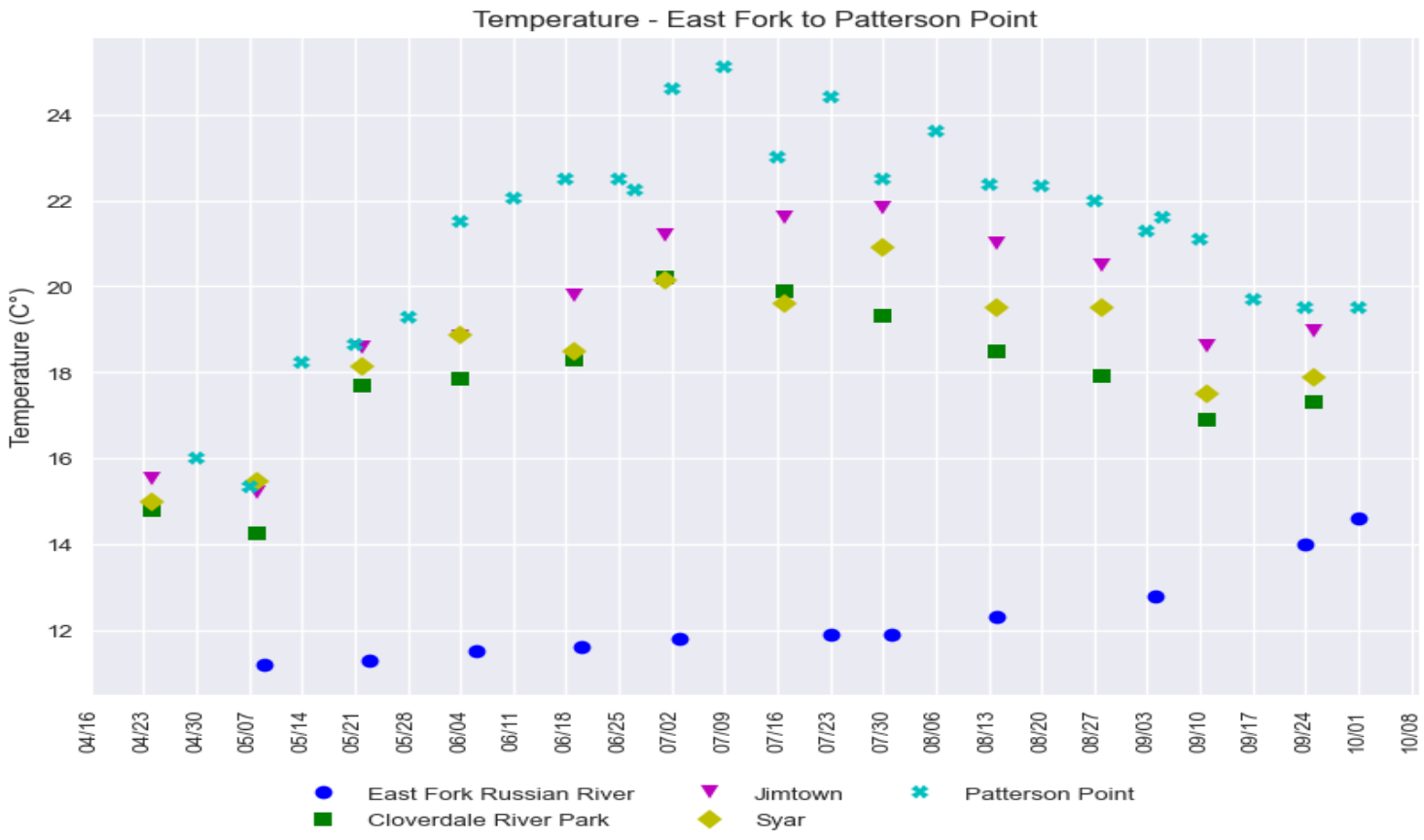

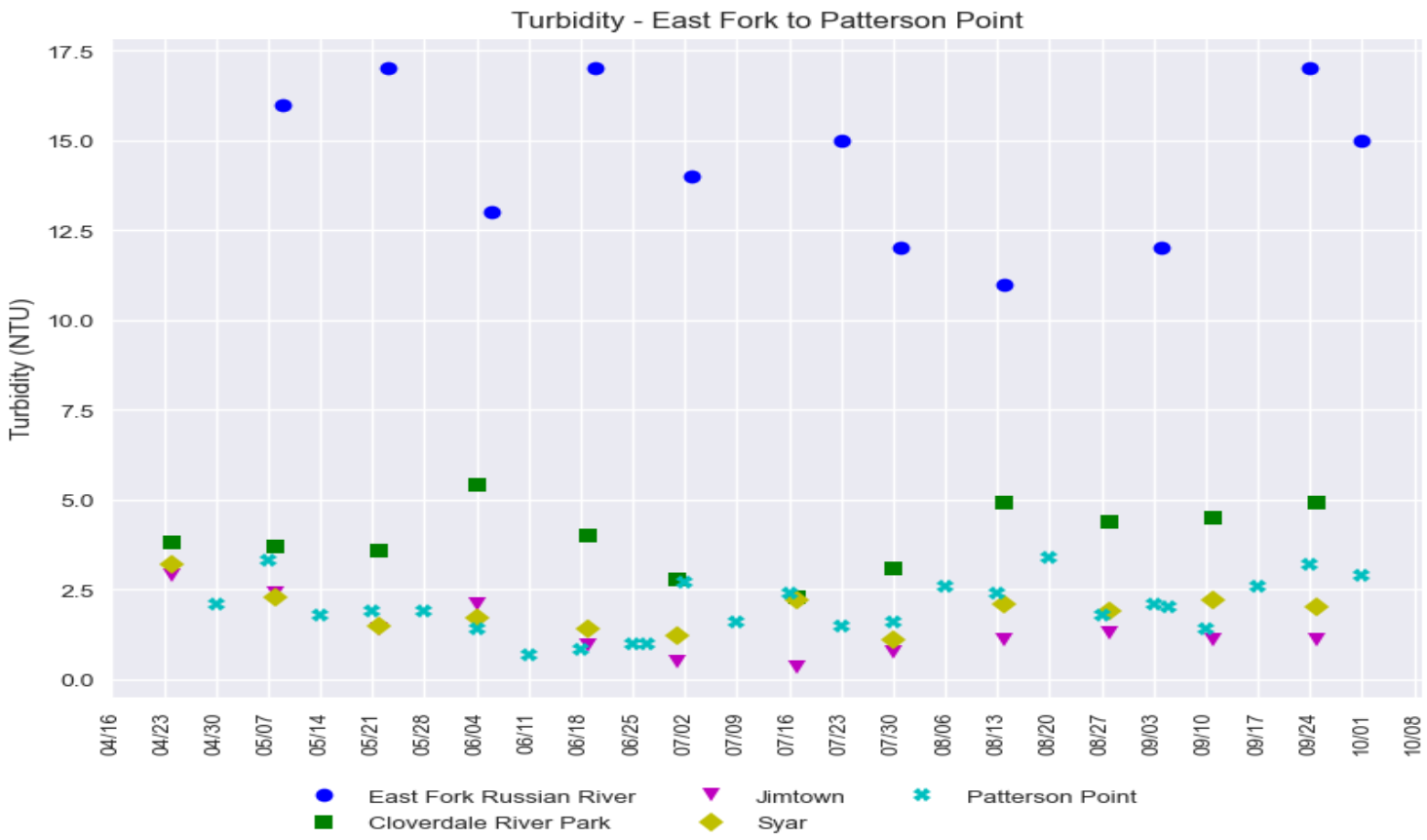

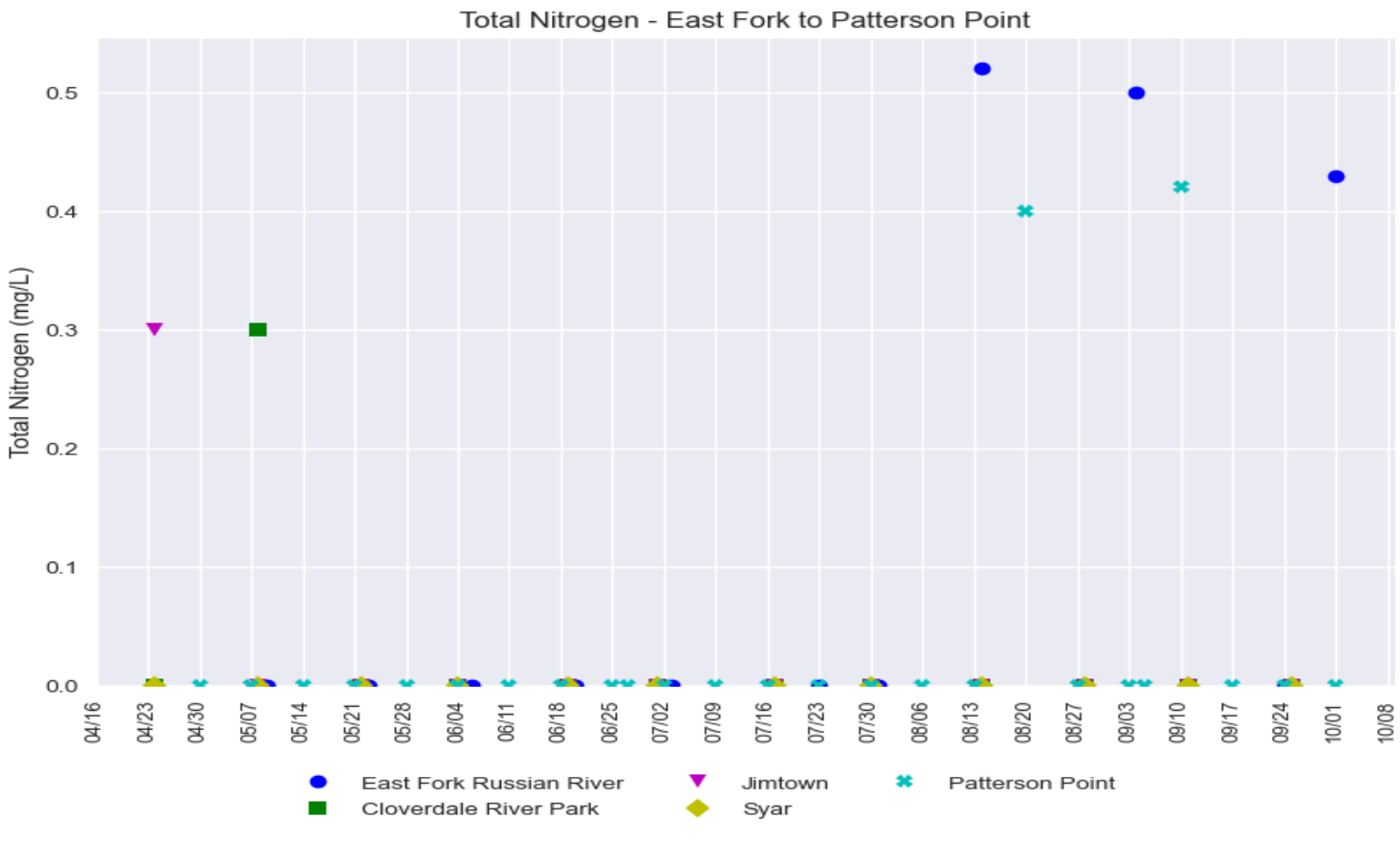

Russian River Water Quality Grab Samples

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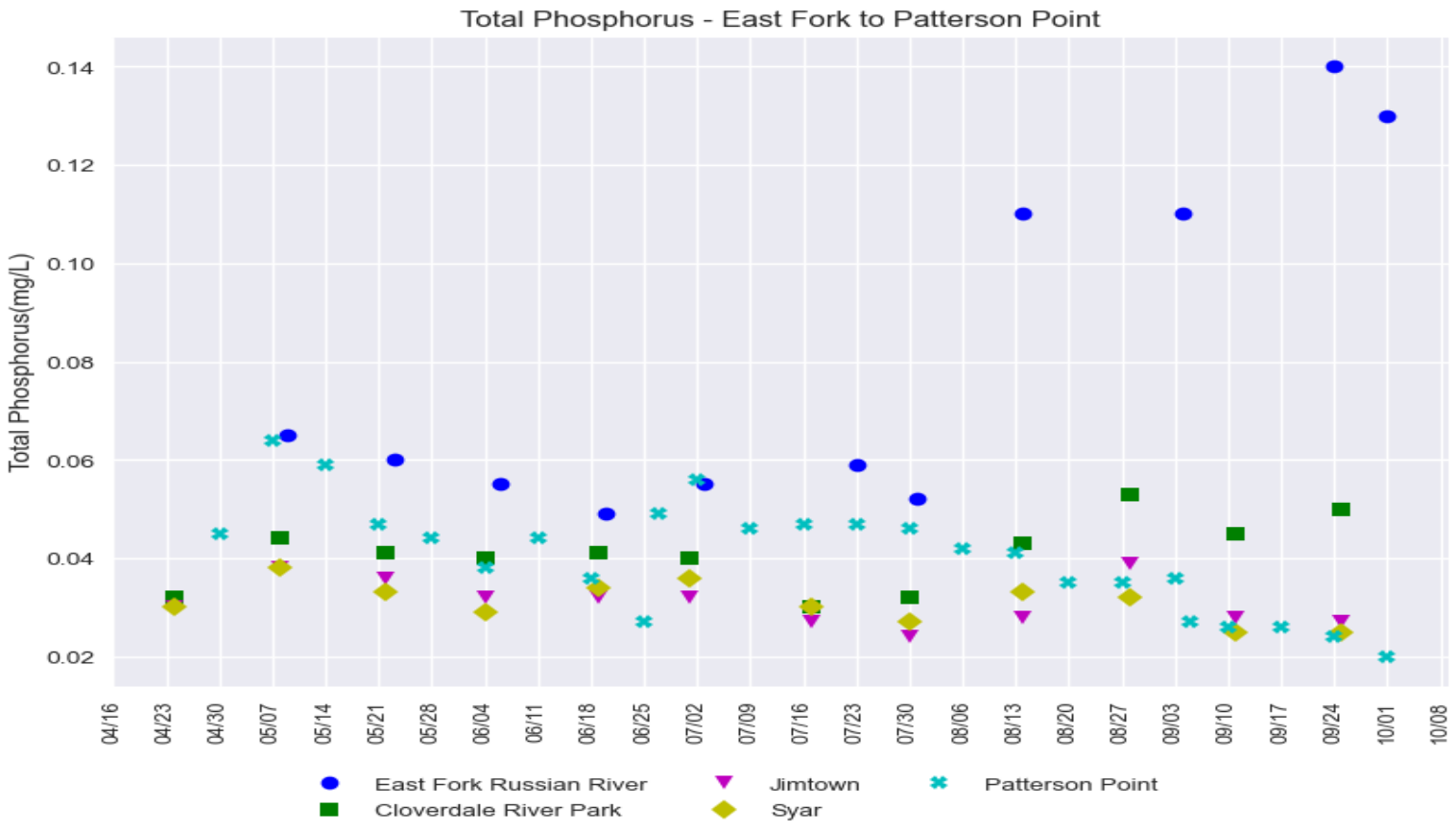
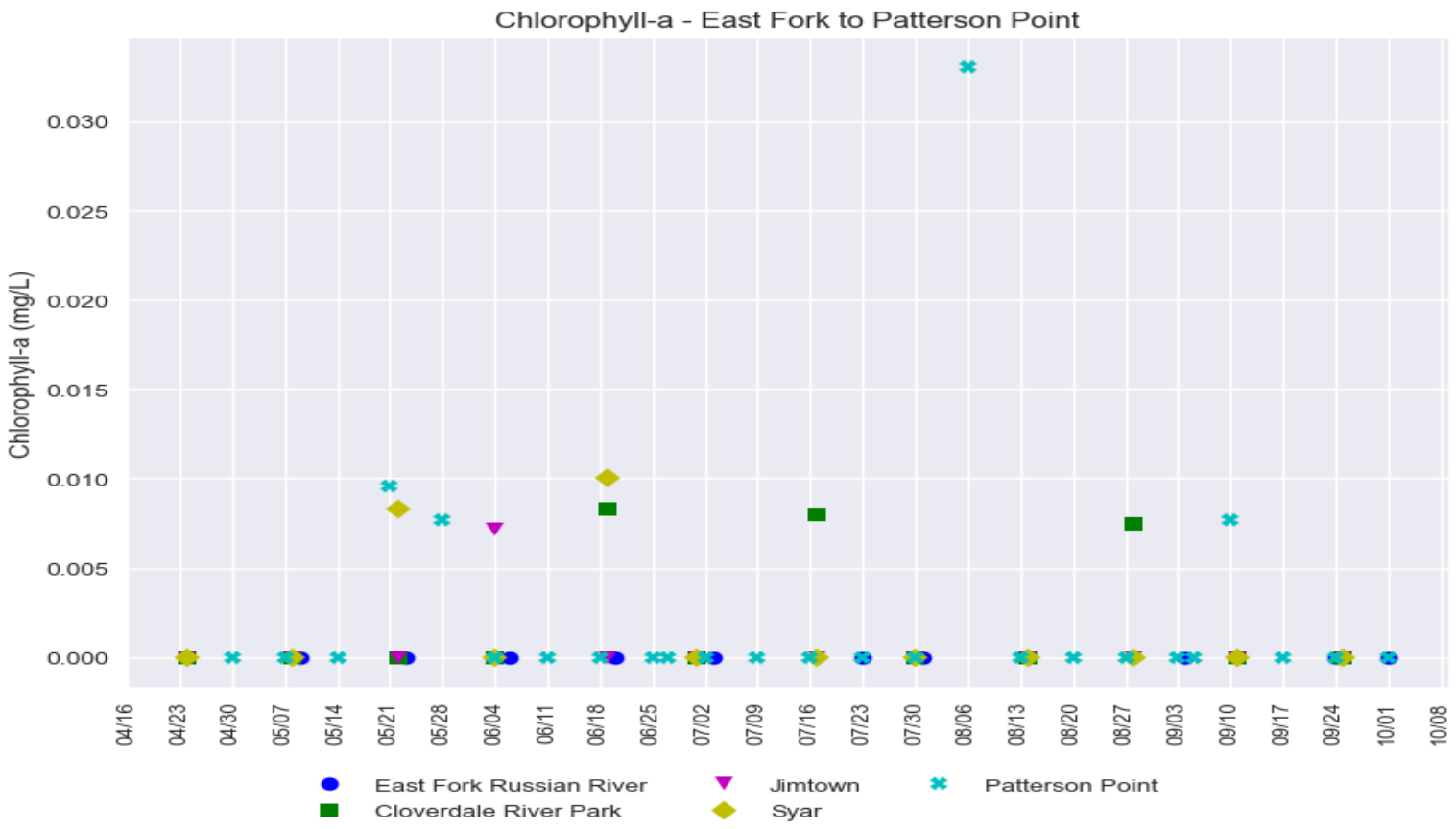
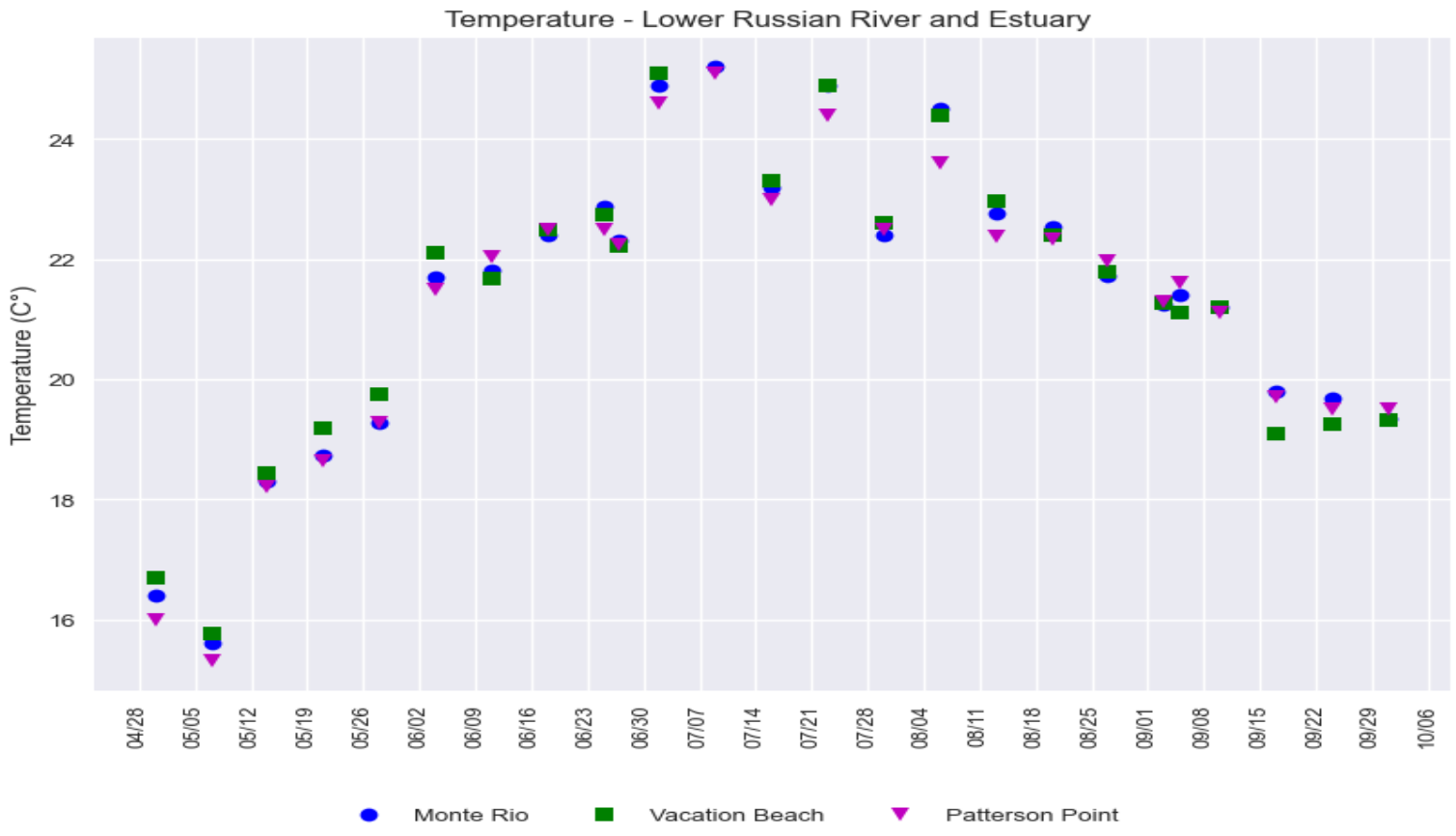
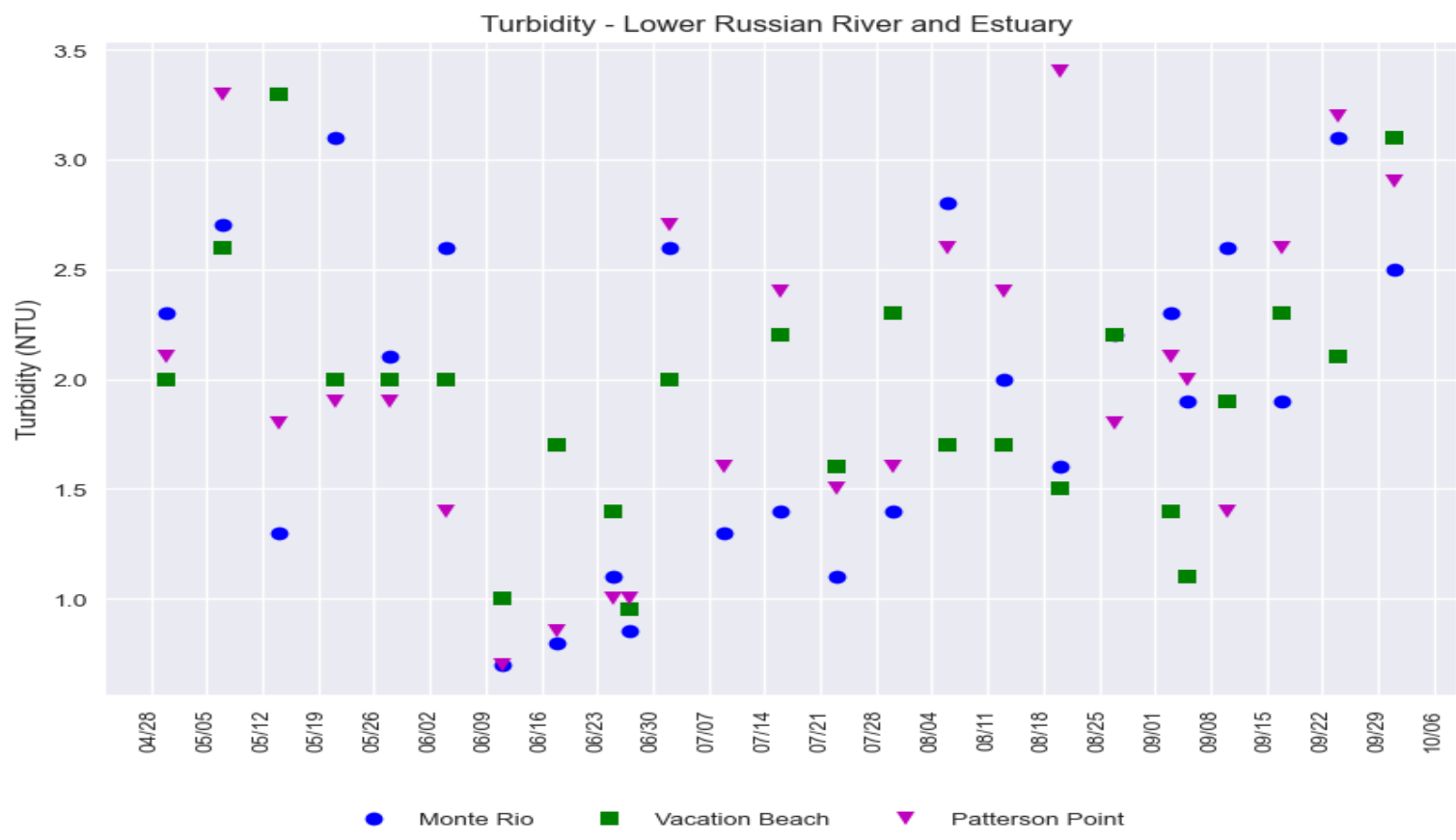


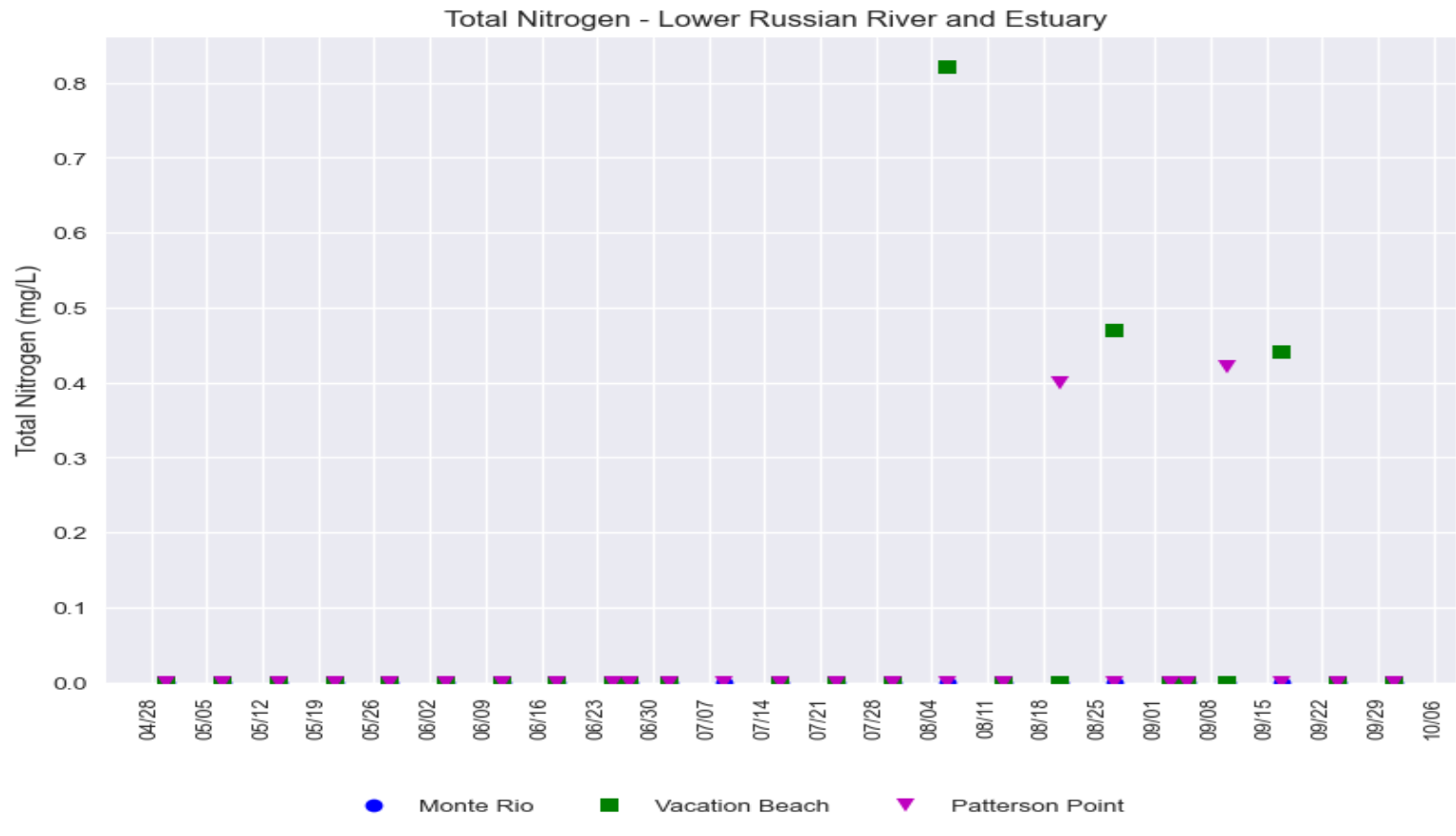


Russian River Water Quality Grab Samples

Provisional Data Subject to Revision







Russian River Water Quality Grab Samples

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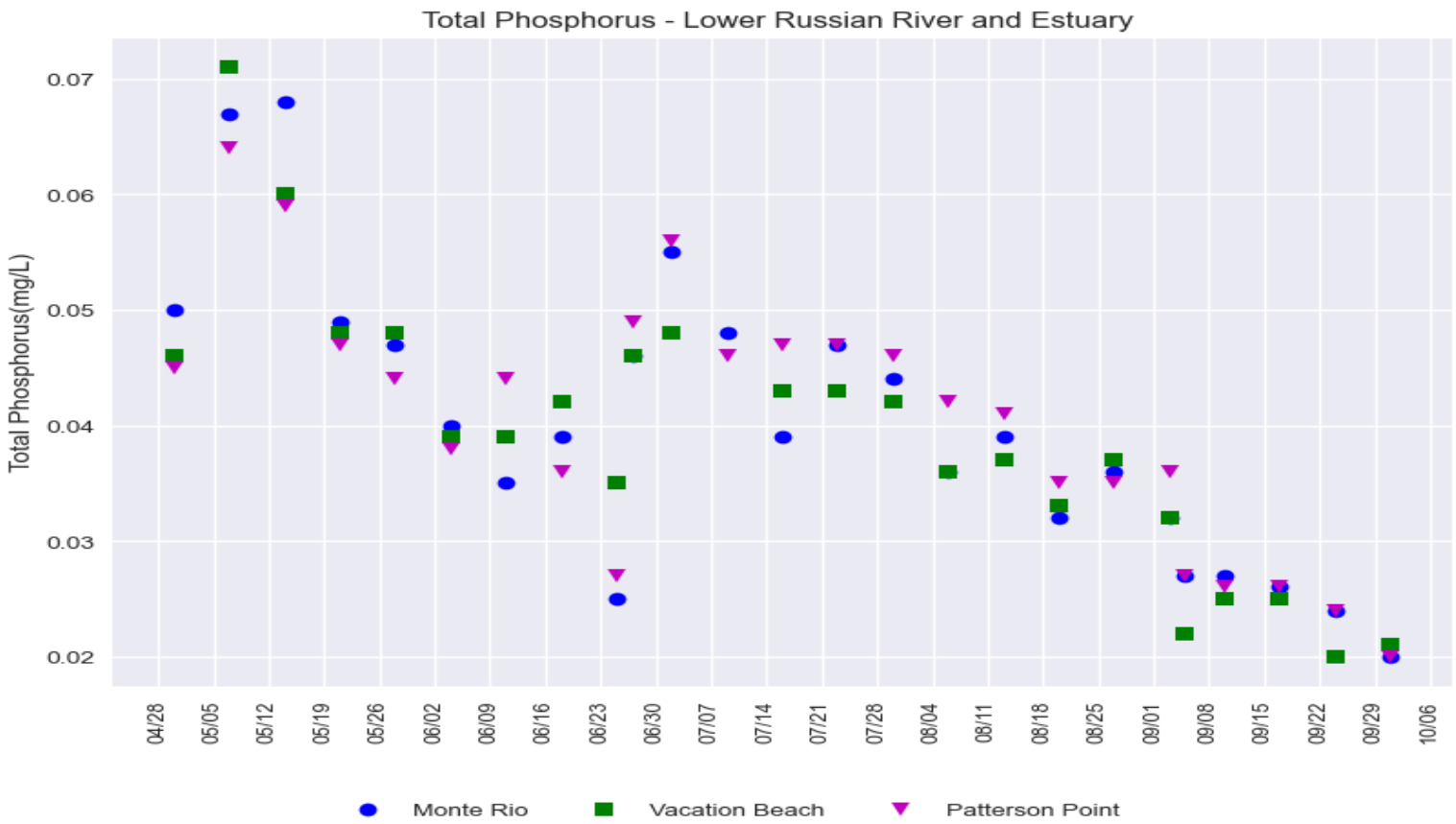
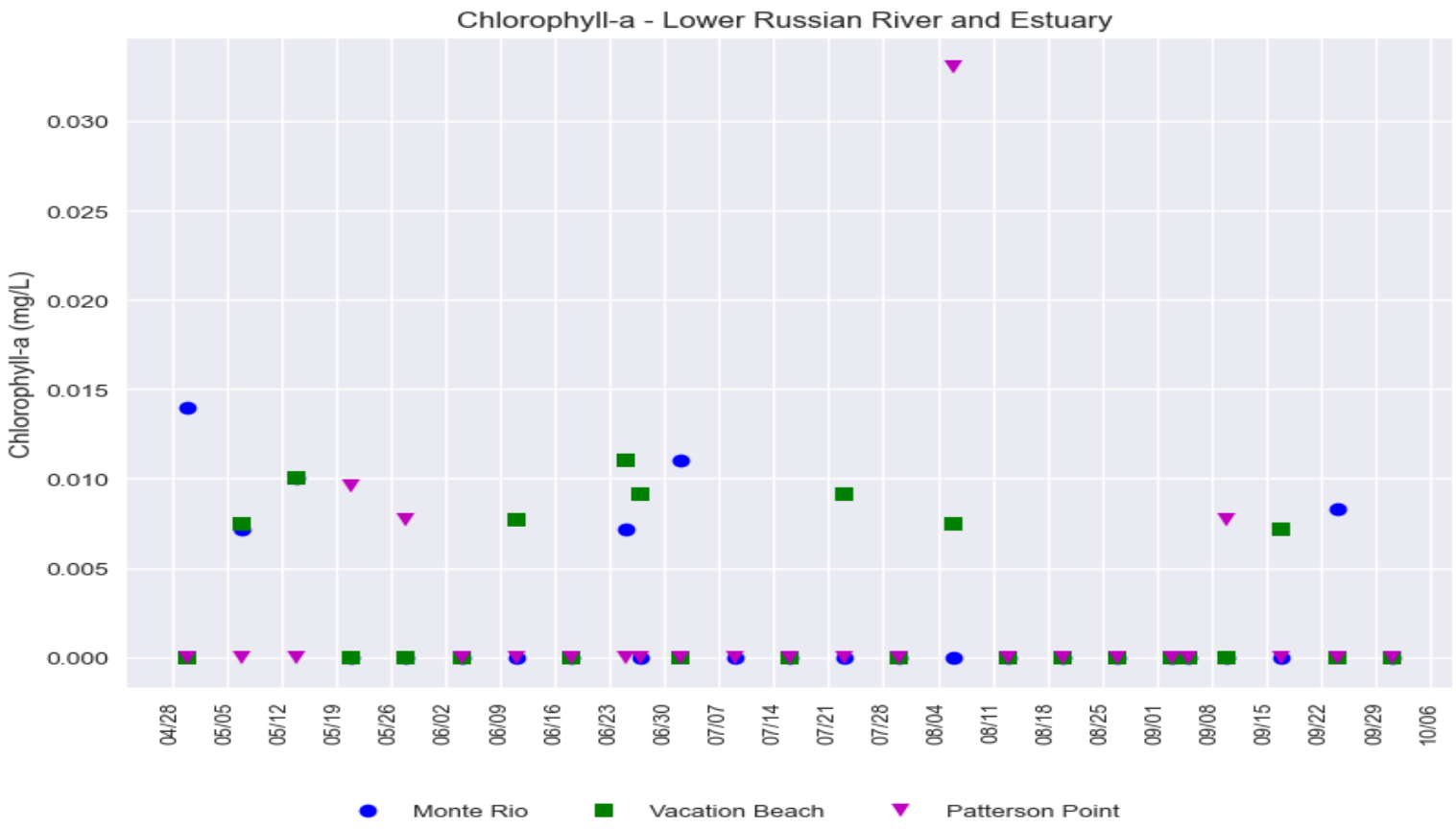




Russian River Water Quality Grab Samples (August 20 - October 1, 2024)
Provisional Data Subject to Revision

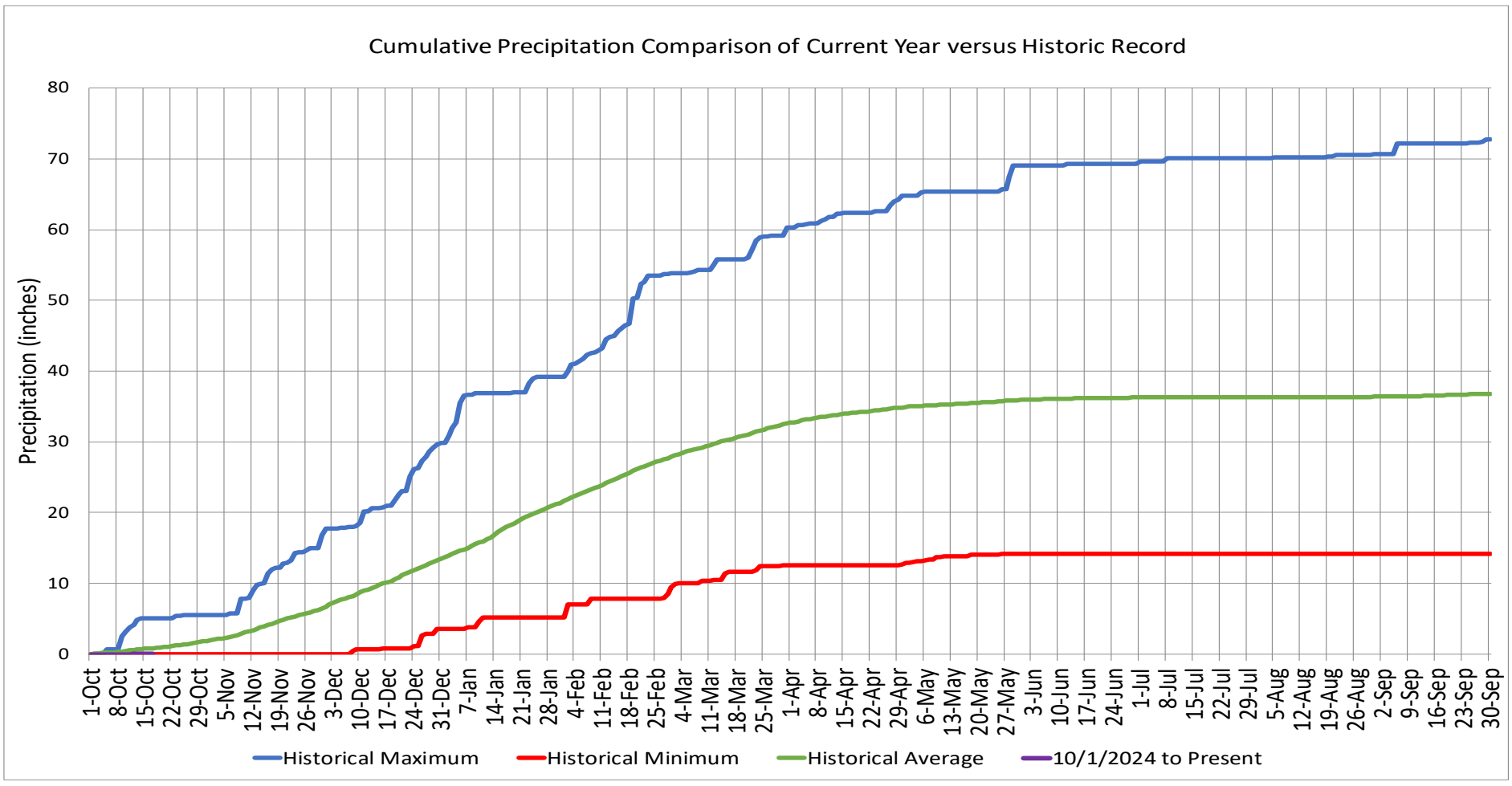
Russian River Estuary Standard Bacterial Indicators

Parameter***	CDPH Guidance*	Date	Patterson Point	Monte Rio	Vacation Beach
Total Coliforms MPN/100 mL	10,000	8/20/2024	2382**	1153**	1187**
		8/27/2024	1299.7	1986.3	1732.9
		9/3/2024	2419.6	2419.6	980.9
		9/5/2024	1986.3	1732.9	1119.9
		9/10/2024	324.1	1986.3	1119.9
		9/17/2024	2603**	1236**	1500**
		9/24/2024	816.4	648.8	980.4
		10/1/2024	1413.6	1413.6	1203.3
E. Coli MPN/100 mL	235	8/20/2024	52	13.4	8.6
		8/27/2024	26.2	8.6	19.5
		9/3/2024	28.5	12.2	12.1
		9/5/2024	14.8	18.7	14.4
		9/10/2024	42.6	13.4	7.4
		9/17/2024	41.4	1	12
		9/24/2024	14.8	8.6	45
		10/1/2024	27.2	40.8	22.1
Enterococcus MPN/100 mL****	61	8/20/2024	51.2	8.6	18.9
		8/27/2024	55.7	8.6	12.2
		9/3/2024	21.1	8.6	2
		9/5/2024	12.2	14.5	6.3
		9/10/2024	15.8	2	1
		9/17/2024	47.1	5.1	9.8
		9/24/2024	28.2	25.6	4.1
		10/1/2024	44.1	55.6	16

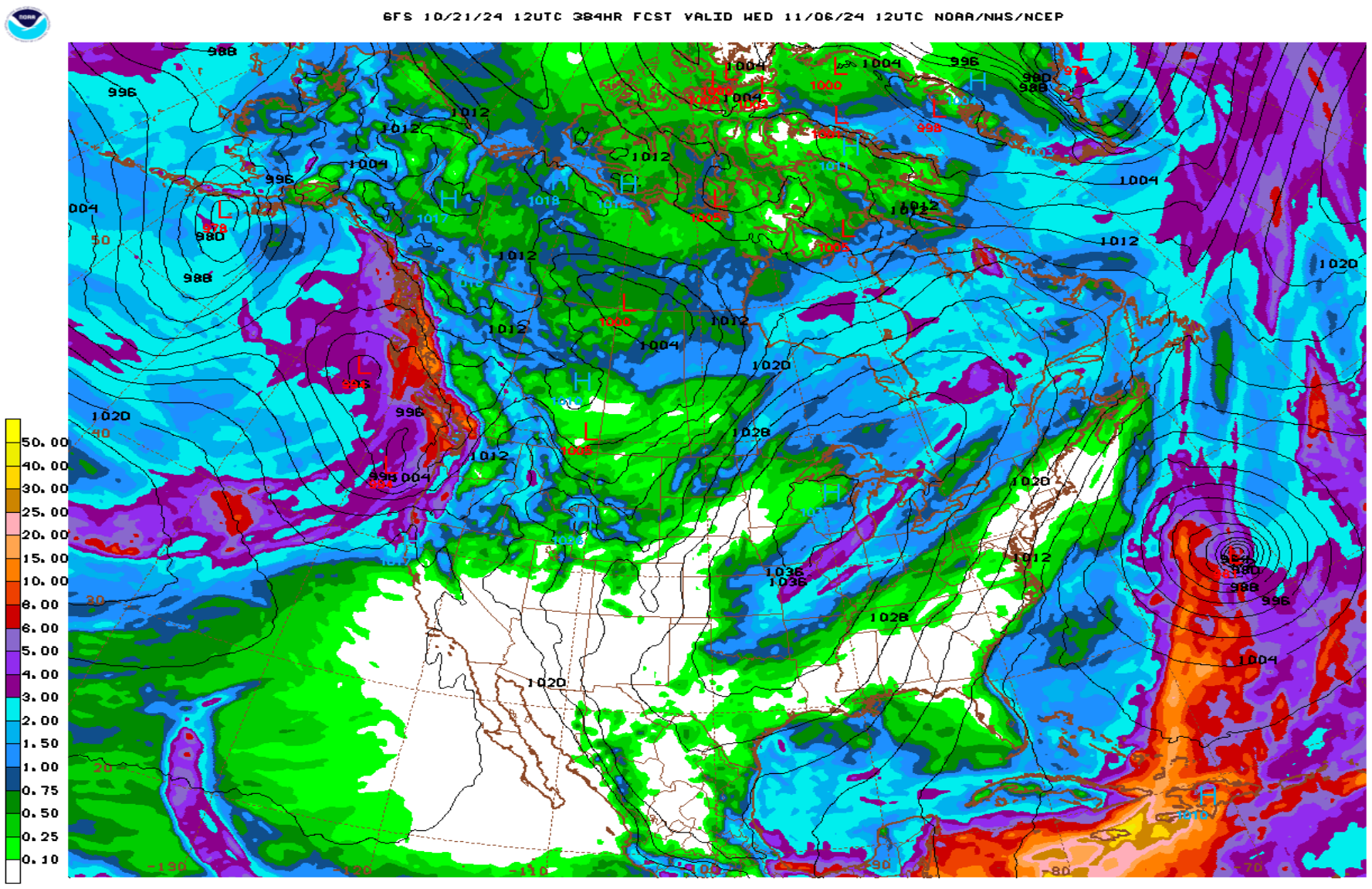
*California Department of Public Health (CDPH) Guidance for Fresh Water Beaches - Single Sample Values:
Freshwater beaches include Patterson Point, Monte Rio, and Vacation Beach
Beach posting is recommended when indicator organisms exceed any of the above corresponding levels
**Sample diluted 1:10
***Method 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

Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2024 - Oct 17, 2024	**0.08**
Last 7 Days*	**0.08**



Global Forecast System Model 16-day Cumulative Precipitation Forecast



Date Range	Forecasted Cumulative (inches)
Oct 21 - Nov 6, 2024	**0.55**

Russian River Fisheries Monitoring

Sonoma Water installed a video camera in the fish ladder on September 1, 2024. Video has been reviewed through October 19, 2024. To date, 402 adult Chinook and 4 adult Steelhead have been observed.

Sonoma Water conducted two lower river dive surveys on October 16 and October 21, 2024. Sites surveyed include Monte Rio, Sunset Beach, Hacienda, and Mom's Beach during the October 16 survey and Monte Rio, Hacienda, and Mom's Beach during the October 21 survey. No adult salmonids were observed during either survey. Sonoma Water used these lower river dive surveys to pilot methods for a dive survey of the lower river fish community that will focus on piscivorous fish. During the October 21 survey, 3 divers counted a total of 75 piscivorous fish over 300 mm in the 0.5 km section of river that included Mom's Beach and the Hacienda Hole.