



State Water Resources Control Board
 Temporary Urgency Change Orders (12/27/2023 & 6/6/2024)
 Russian River Hydrologic & Water Quality Report
 July 26, 2024 - August 1, 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).

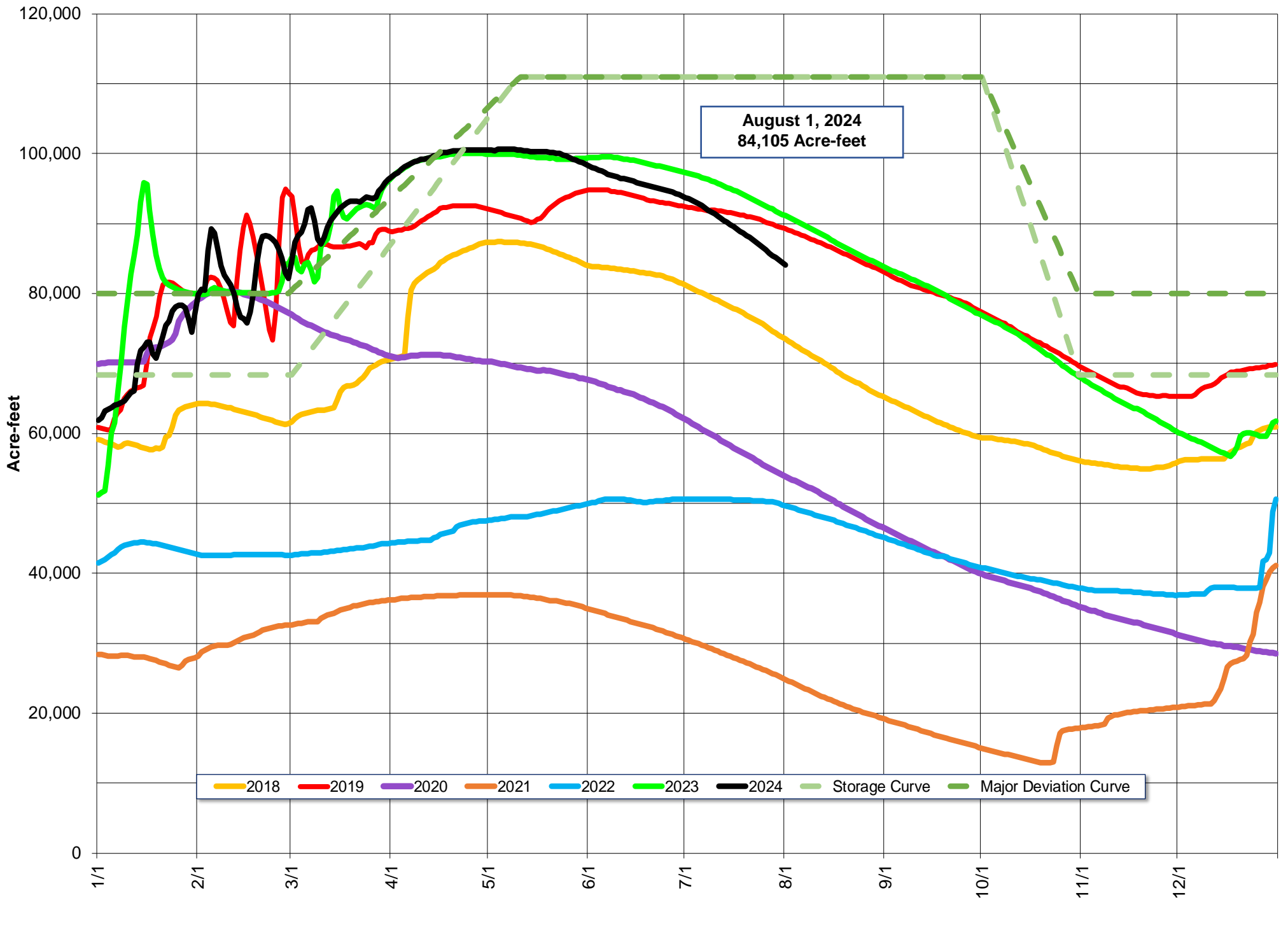
Instream Flow Requirements as of August 1, 2024

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



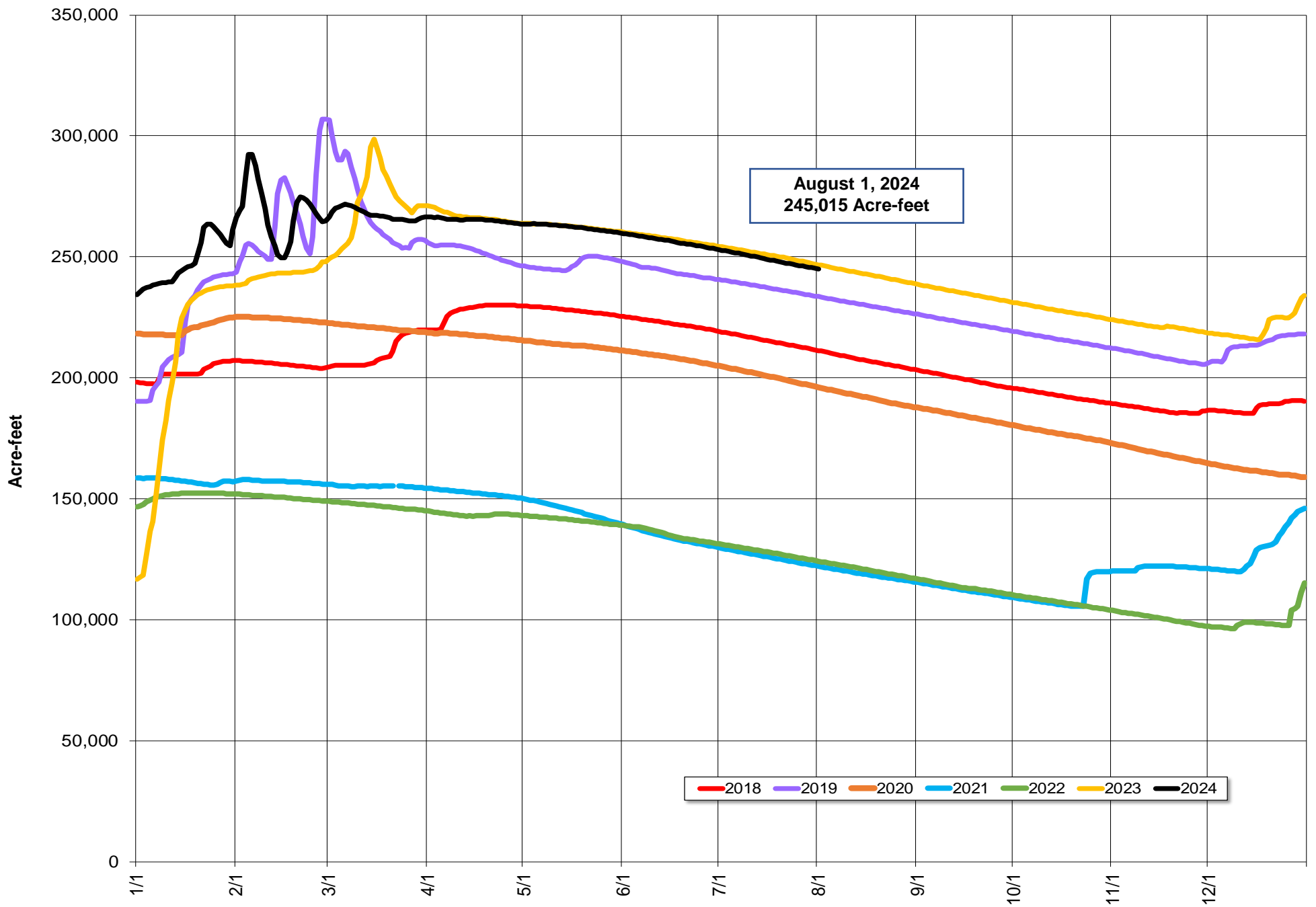
Storage (acre-feet)	August 1, 2024	84,105	
Change in Storage (acre-feet)	Last 30 days	-9,398	-313
	Last 7 days	-2,091	-299
Daily Inflow (cfs)	Last 7 days	Min	4
		Max	50
		Mean	35
Release (cfs)	Last 7 days	Min	185
		Max	207
		Mean	194

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	August 1, 2024	245,015	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		-7,759	-259
	Last 7 days	-1,693	-242
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	16
		Mean	2
Release (cfs)	Last 7 days	Min	99
		Max	100
		Mean	100

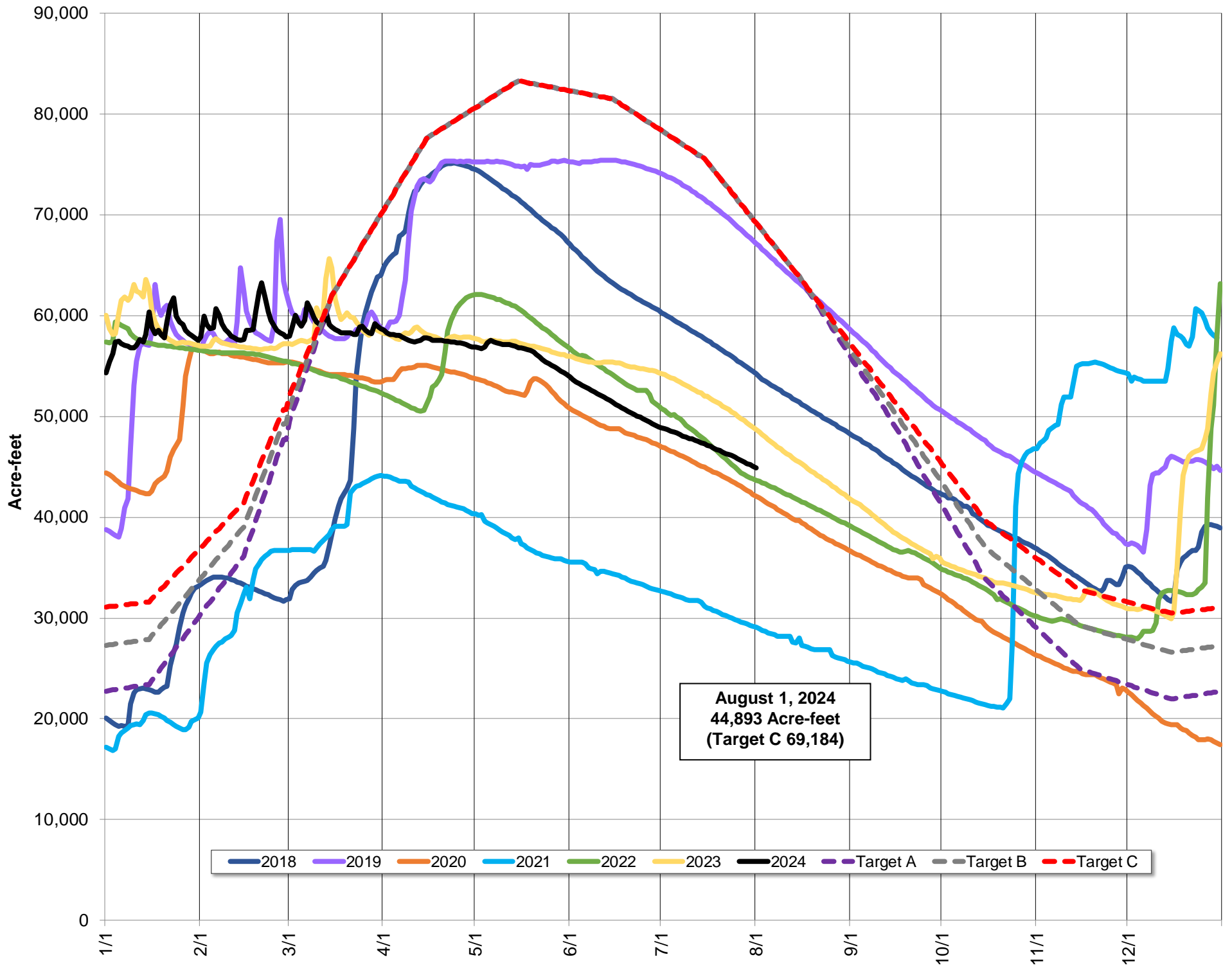
Potter Valley Project

PVP Diversion (cfs)	August 1, 2024	60
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - August 1, 2024	486,465	1,590
	Last 7 days	88	13

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

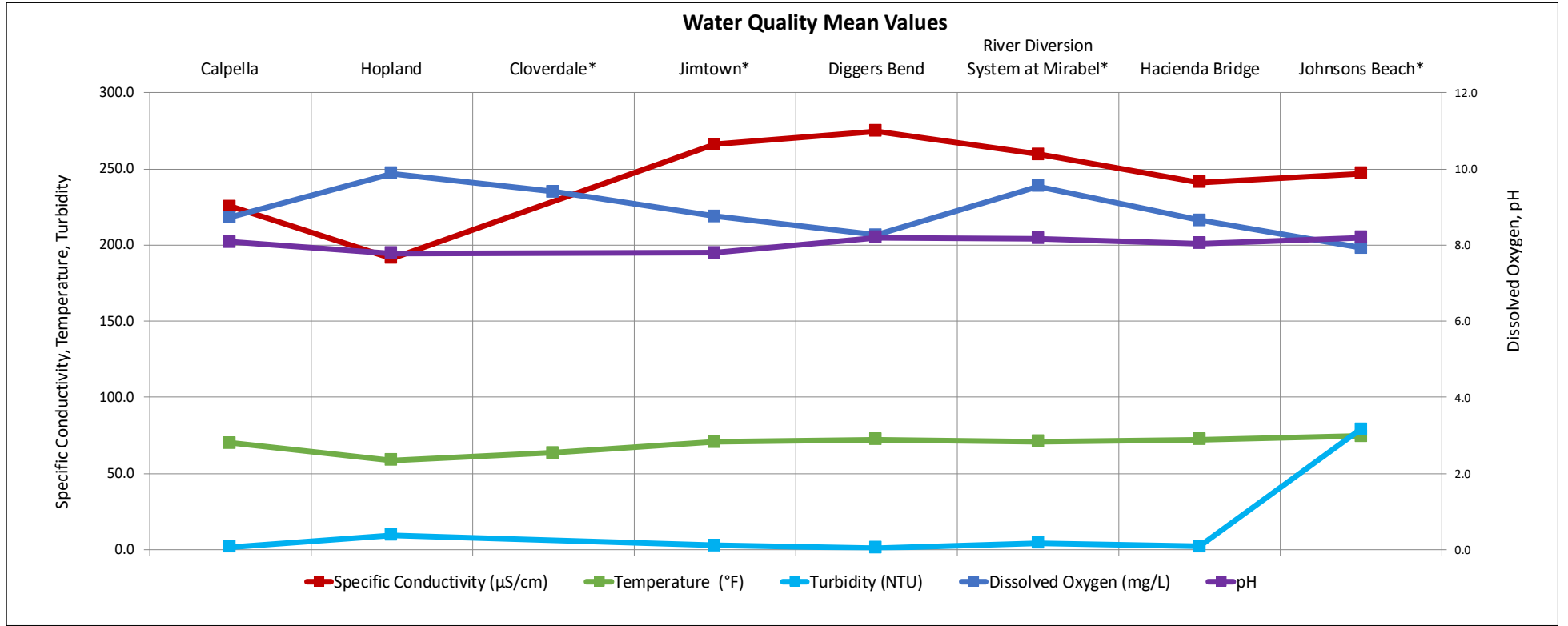


August 1, 2024
44,893 Acre-feet
(Target C 69,184)

Russian River Flows (July 26, 2024 - August 1, 2024)

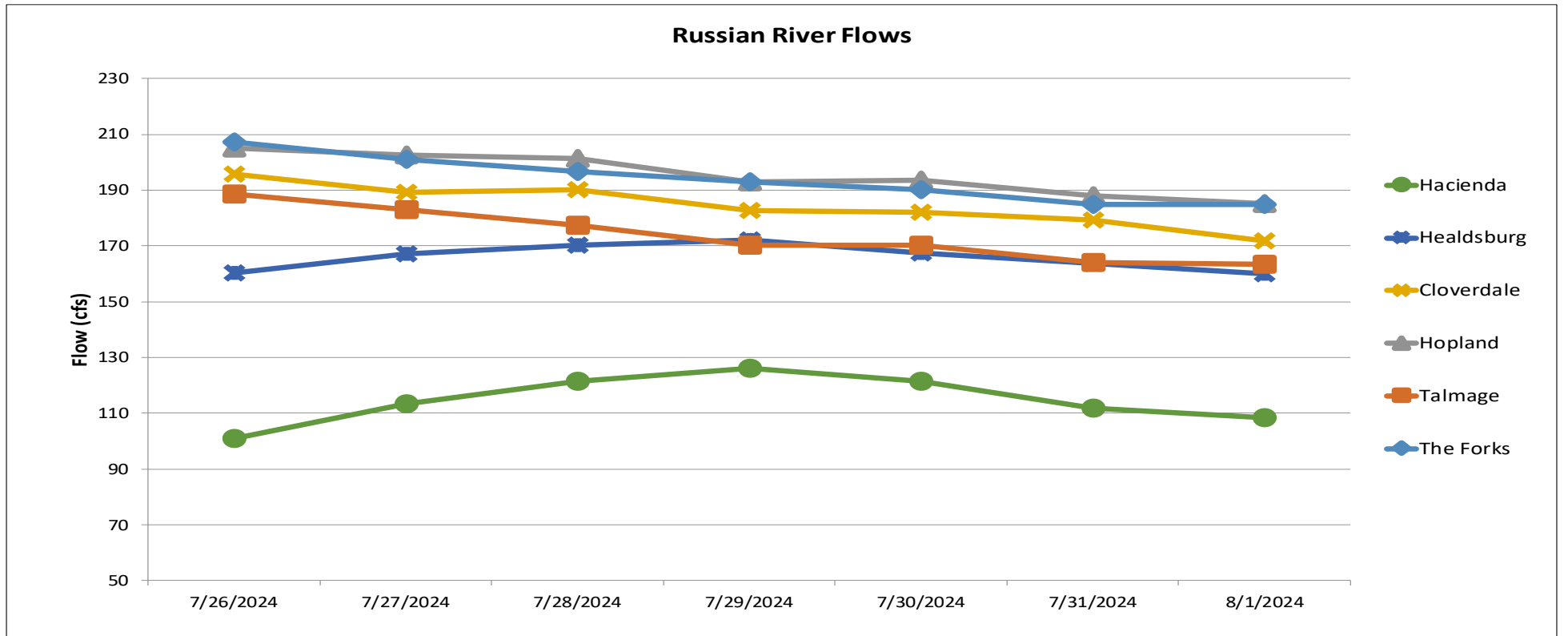
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	65.8	55.8	60.3	66.2	67.6	68.9	68.2	71.6
	Max	74.3	61.2	68.2	75.2	77.4	73.3	76.5	78.5
	Mean	69.8	58.6	63.6	70.5	72.2	70.8	72.1	74.4
Specific Conductivity (µS/cm)	Min	218.0	188.0		262.0	272.0	255	237.0	135.0
	Max	234.0	194.0		272.0	285.0	266	250.0	264.8
	Mean	225.4	191.2		266.1	274.8	260	241.2	246.9
Dissolved Oxygen (mg/L)	Min	7.9	8.8	8.3	6.6	7.0	8.1	6.6	5.5
	Max	10.1	11.3	11.4	11.8	9.6	10.8	10.2	8.9
	Mean	8.7	9.9	9.4	8.8	8.3	9.5	8.7	7.9
Dissolved Oxygen (% Saturation)	Min	88.3	86.5	86.4	73.2	79.3	73.2	74.0	73.2
	Max	115.9	115.0	121.8	138.3	116.6	138.3	119.8	138.3
	Mean	97.9	97.6	98.4	99.2	95.2	99.2	99.6	99.2
pH	Min	7.8	7.4		7.5	8.0	8.0	7.6	7.9
	Max	8.5	8.2		8.3	8.4	8.4	8.3	8.4
	Mean	8.1	7.8		7.8	8.2	8.2	8.0	8.2
Turbidity (NTU)	Min	1.1	7.8		1.8	0.5	1.2	1.2	5
	Max	2.2	11.1		3.8	2.4	144.6	3.9	856
	Mean	1.5	9.3		2.7	1.1	4.2	2.1	79

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Jul 26, 2024	Jul 27, 2024	Jul 28, 2024	Jul 29, 2024	Jul 30, 2024	Jul 31, 2024	Aug 1, 2024
The Forks*	207	201	197	193	190	185	185
Talmage USGS 11462080	189	183	177	170	170	164	163
Hopland USGS 11462500	205	203	201	193	194	188	185
Cloverdale USGS 11463000	196	189	190	183	182	179	172
Healdsburg USGS 11464000	160	167	170	172	167	164	160
Hacienda USGS 11467000	101	113	121	126	121	112	108

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

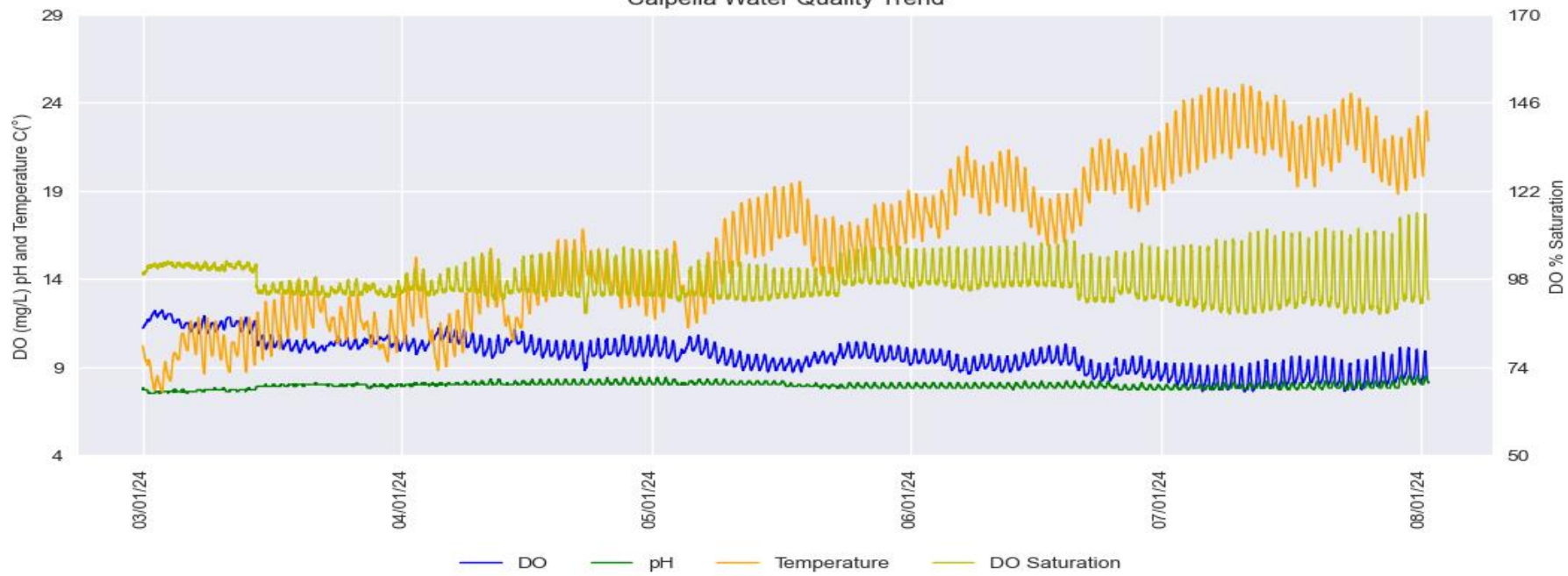


Russian River Water Quality March 1, 2024 – August 1, 2024

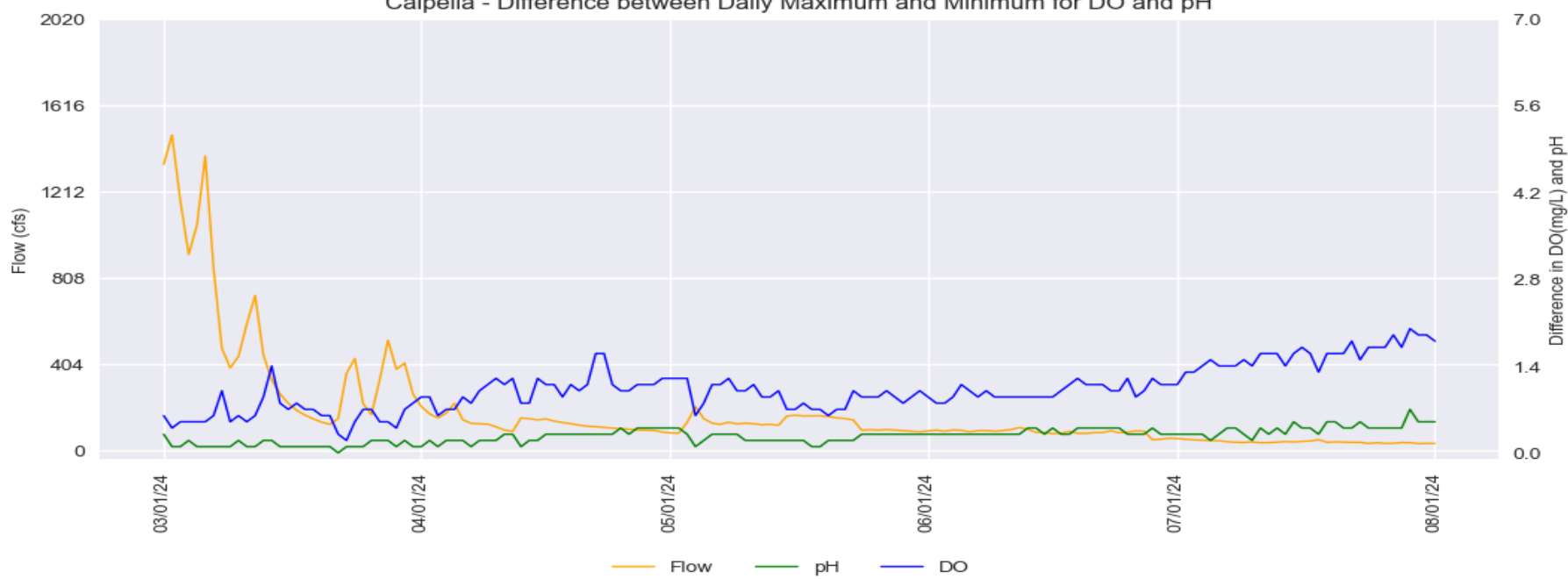
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

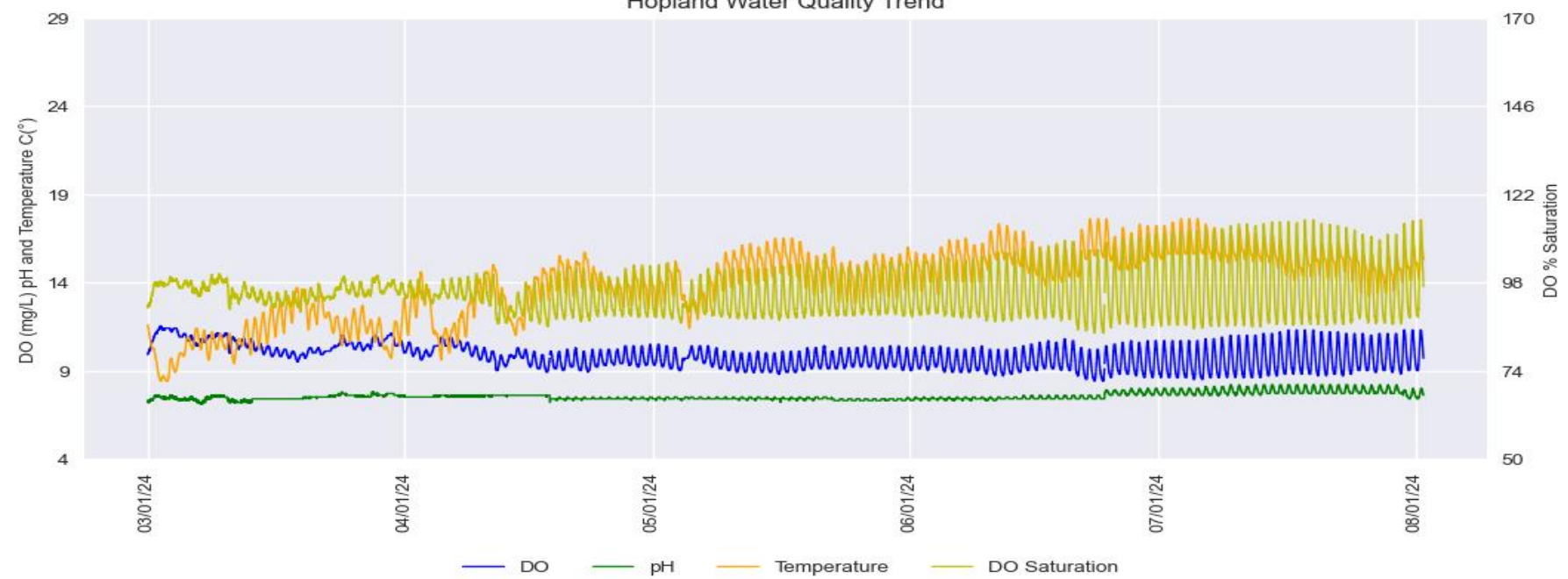


Calpella - Difference between Daily Maximum and Minimum for DO and pH

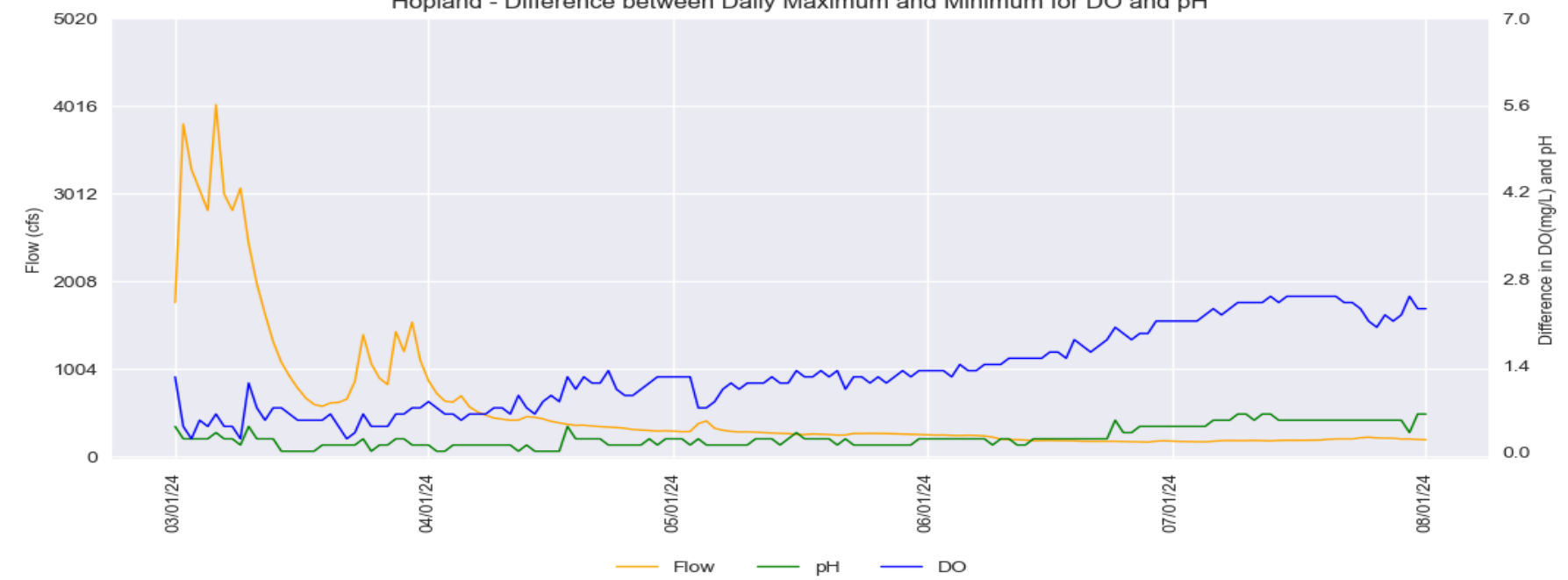


Hopland

Hopland Water Quality Trend



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

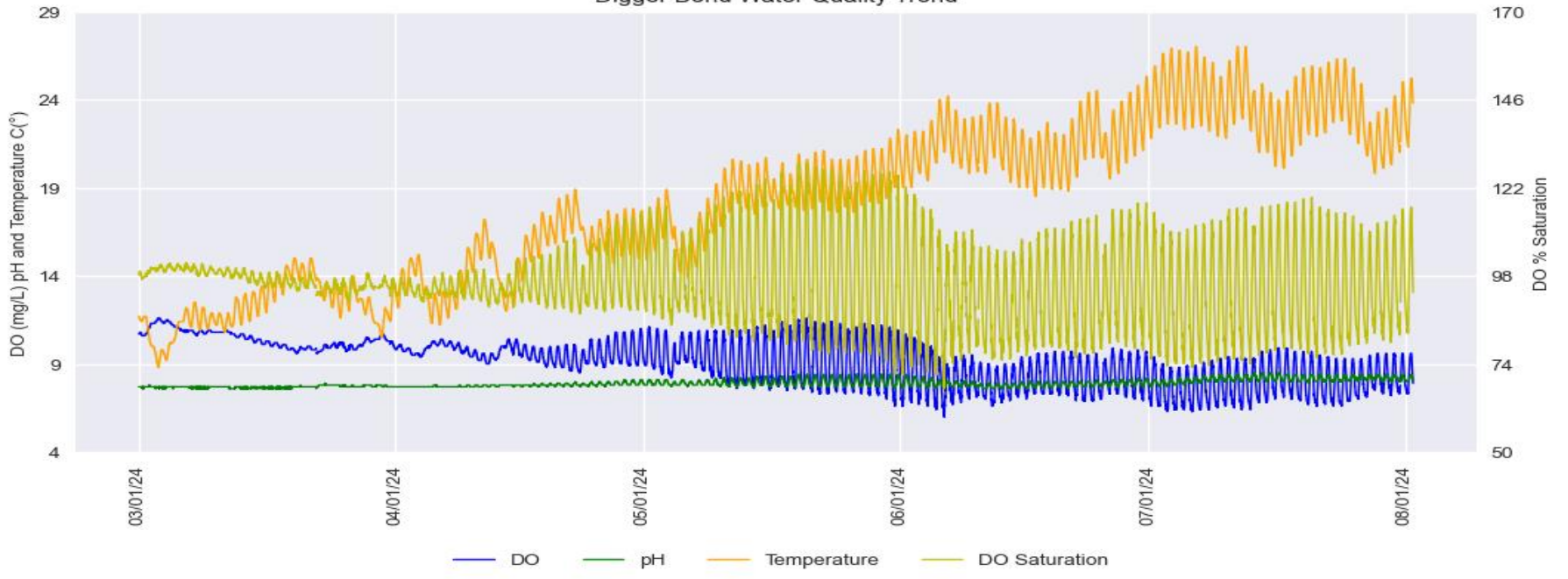


Russian River Water Quality March 1, 2024 – August 1, 2024

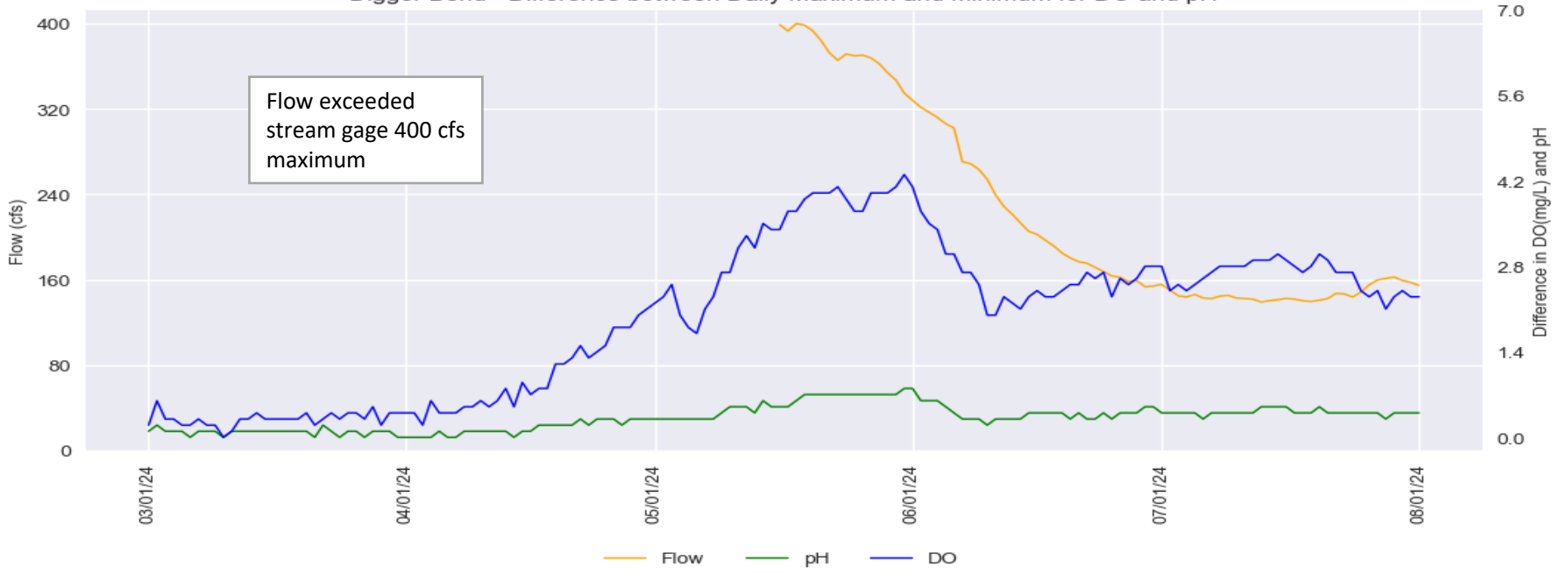
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Digger Bend

Digger Bend Water Quality Trend

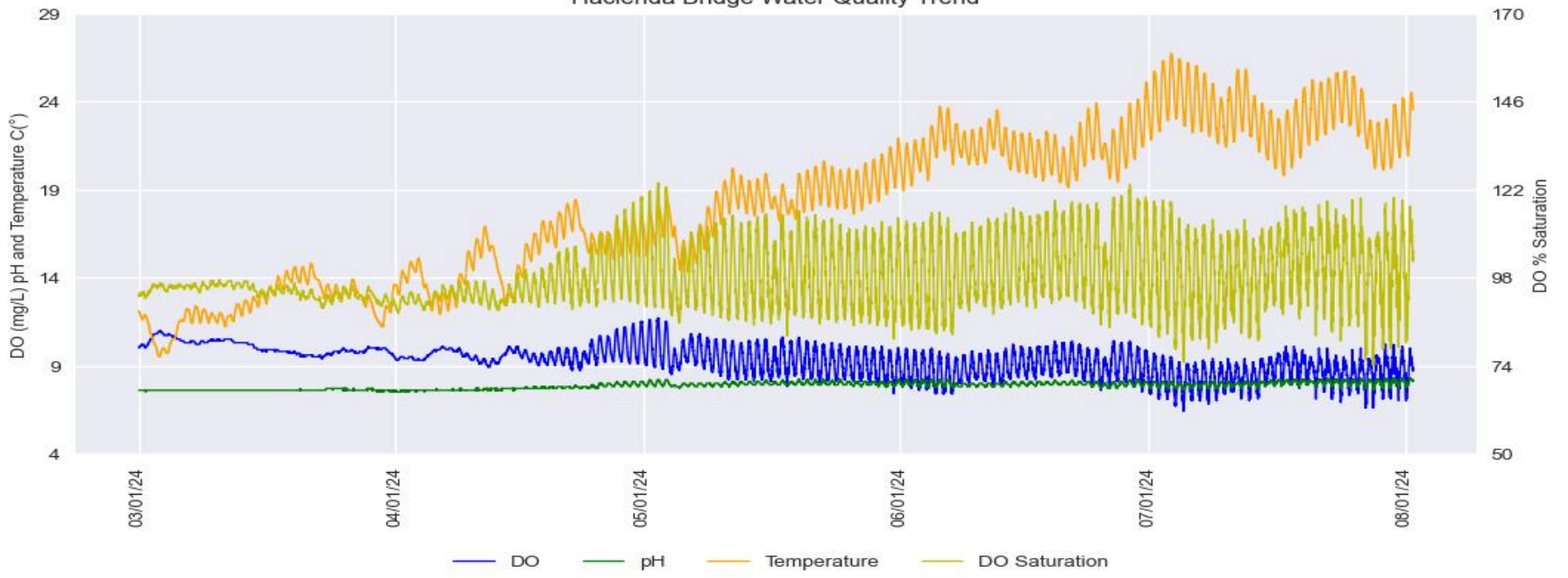


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

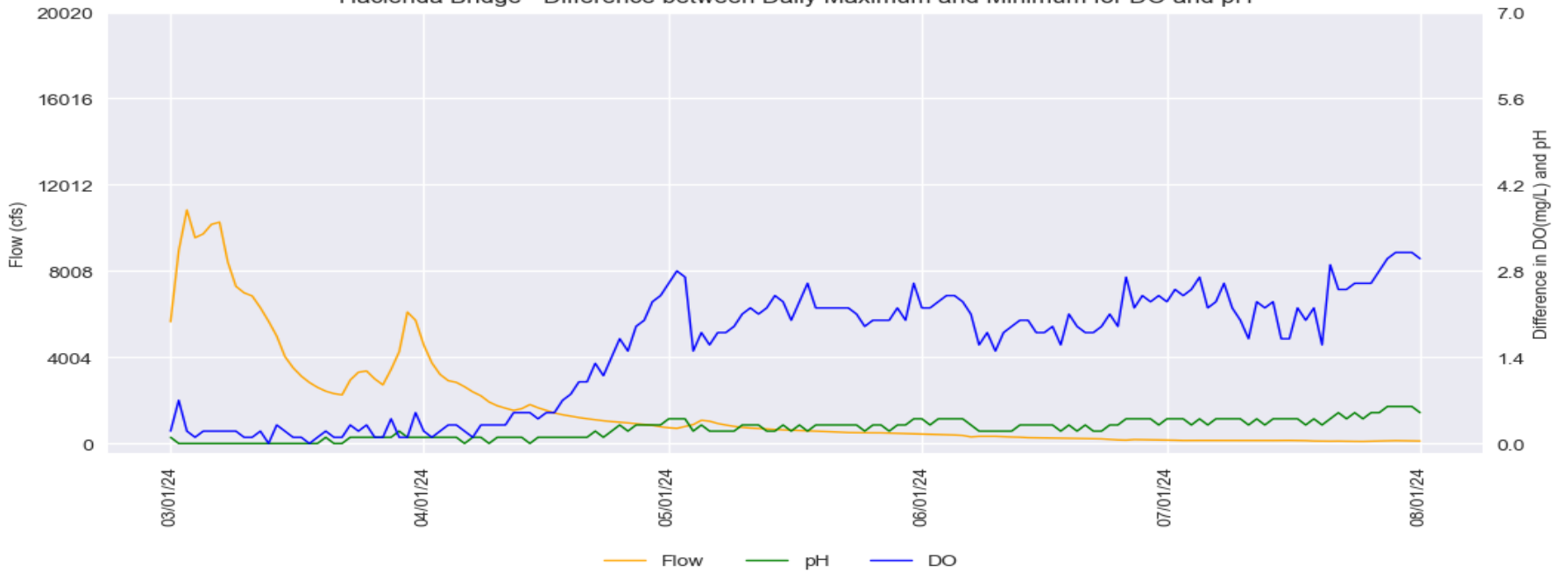


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

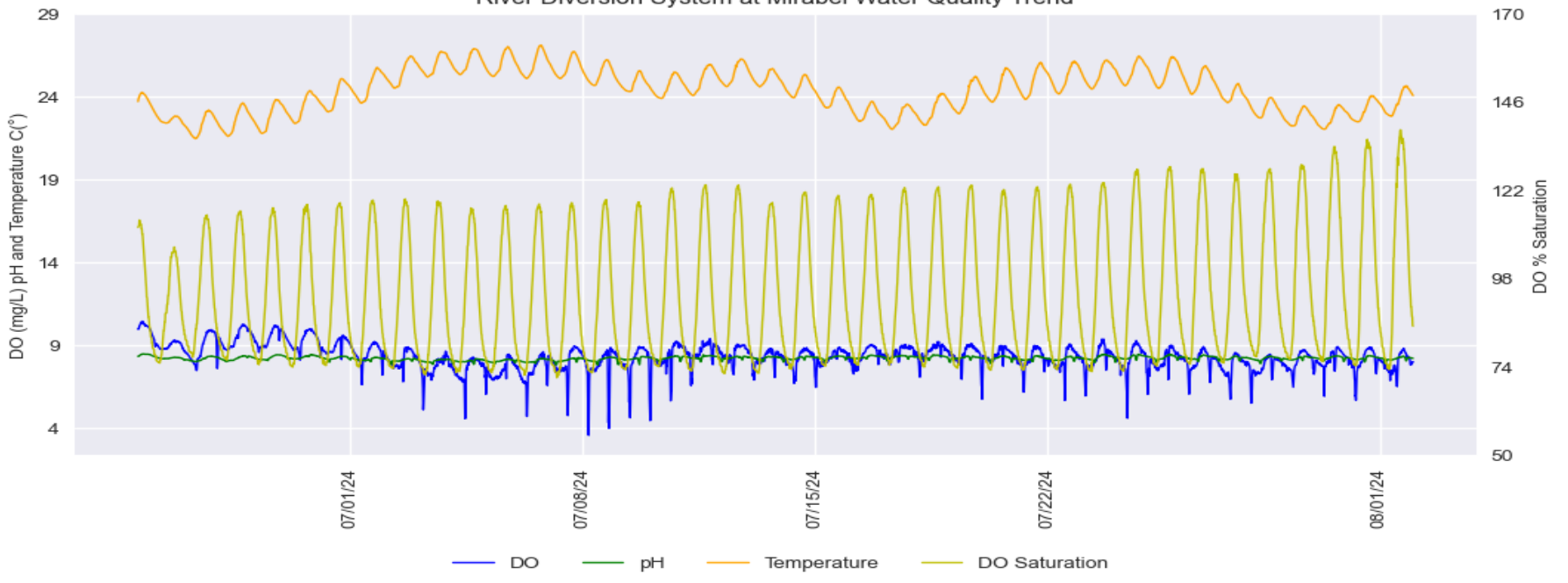


Russian River Water Quality June 24, 2024 – August 1, 2024

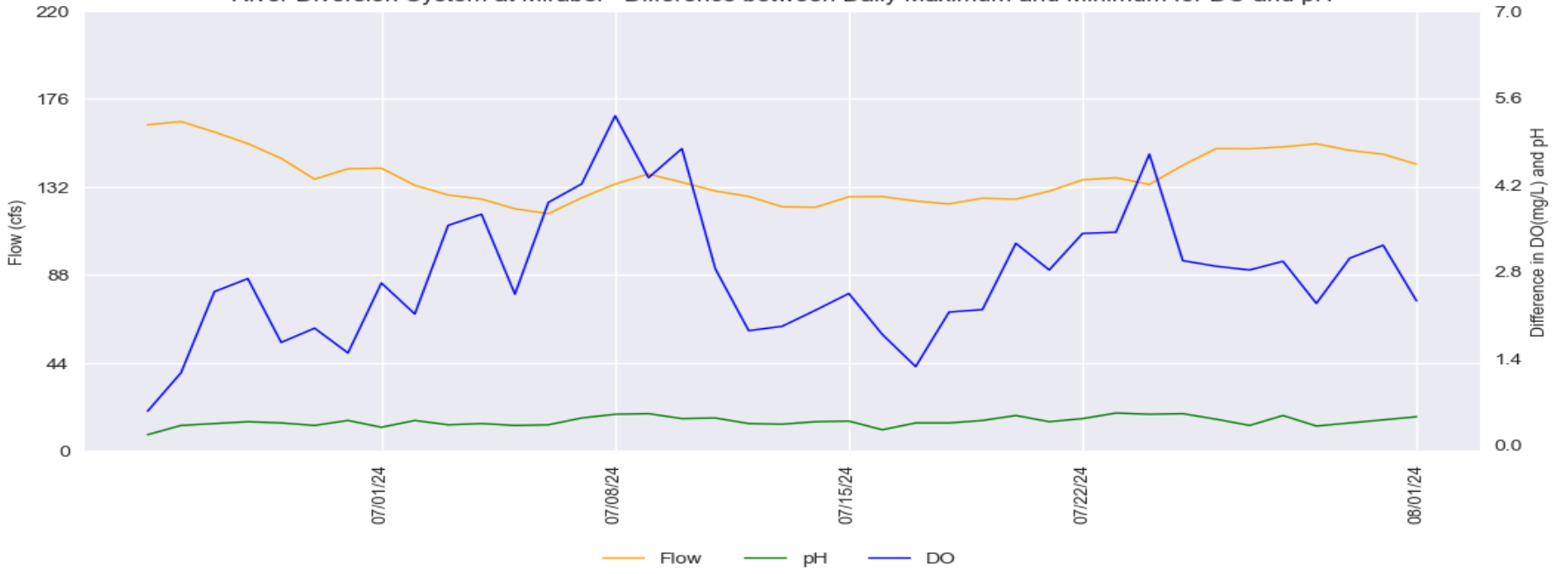
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Johnsons Beach

River Diversion System at Mirabel Water Quality Trend

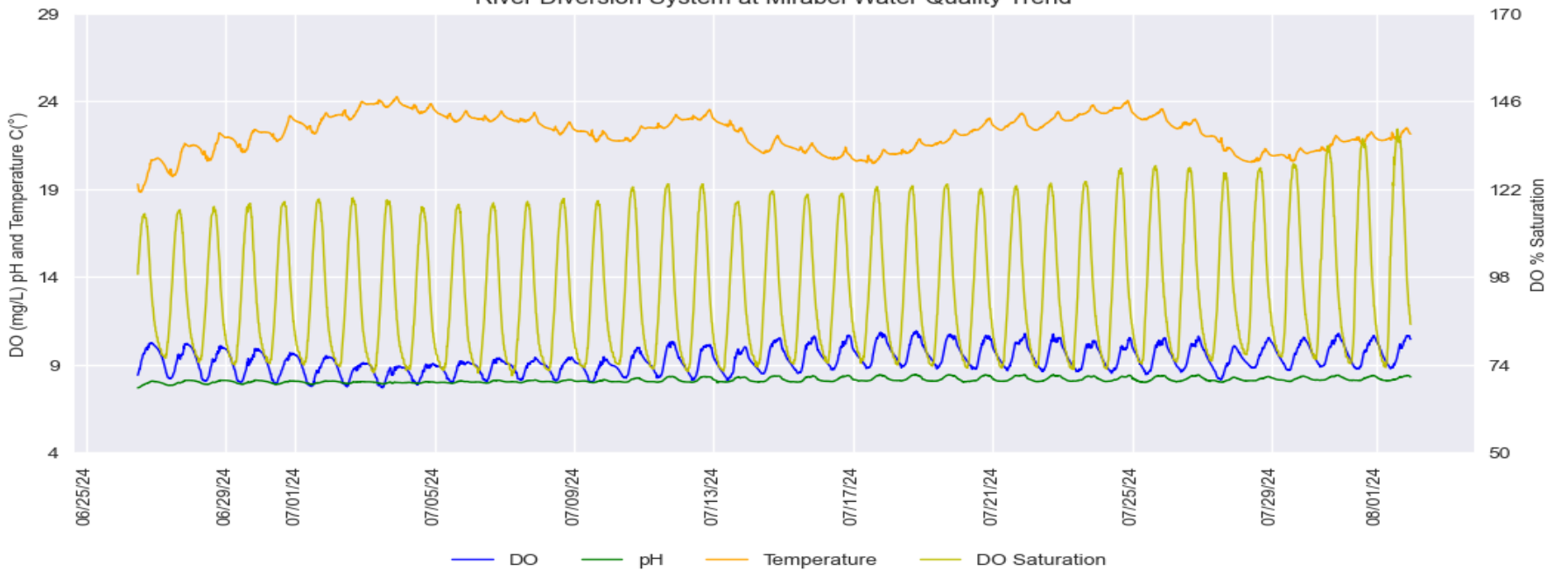


River Diversion System at Mirabel - Difference between Daily Maximum and Minimum for DO and pH

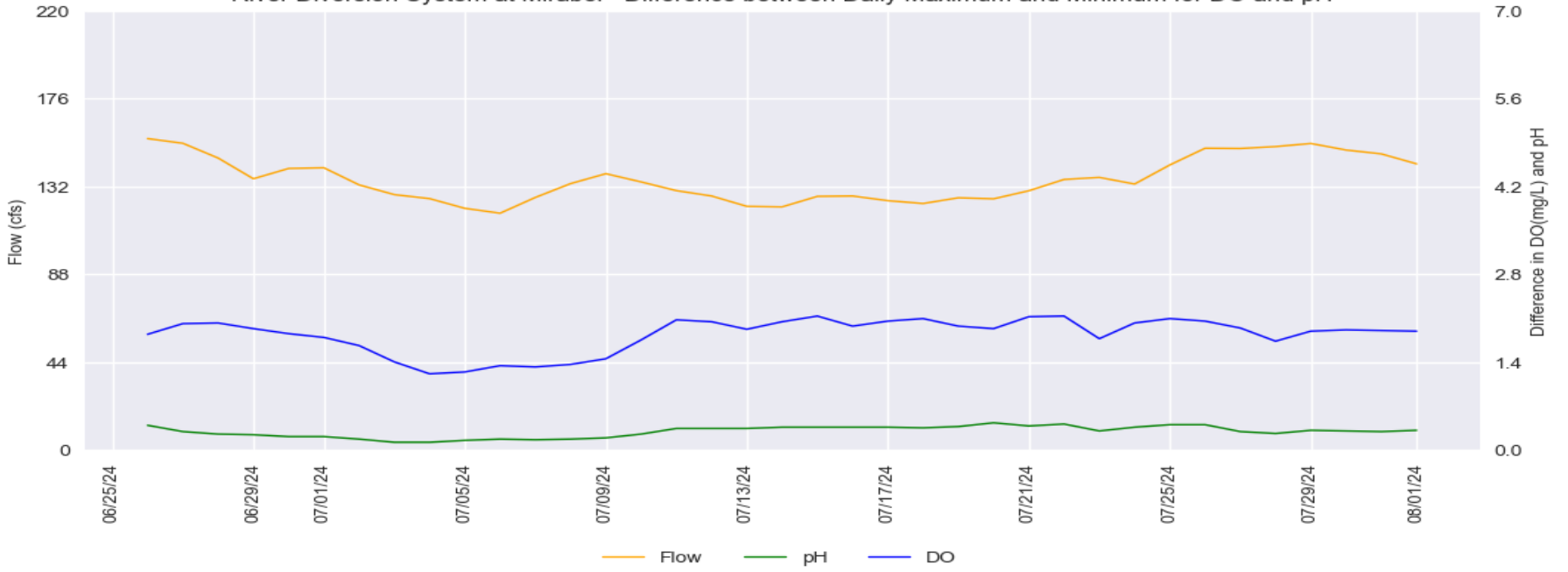


River Diversion System at Mirabel

River Diversion System at Mirabel Water Quality Trend



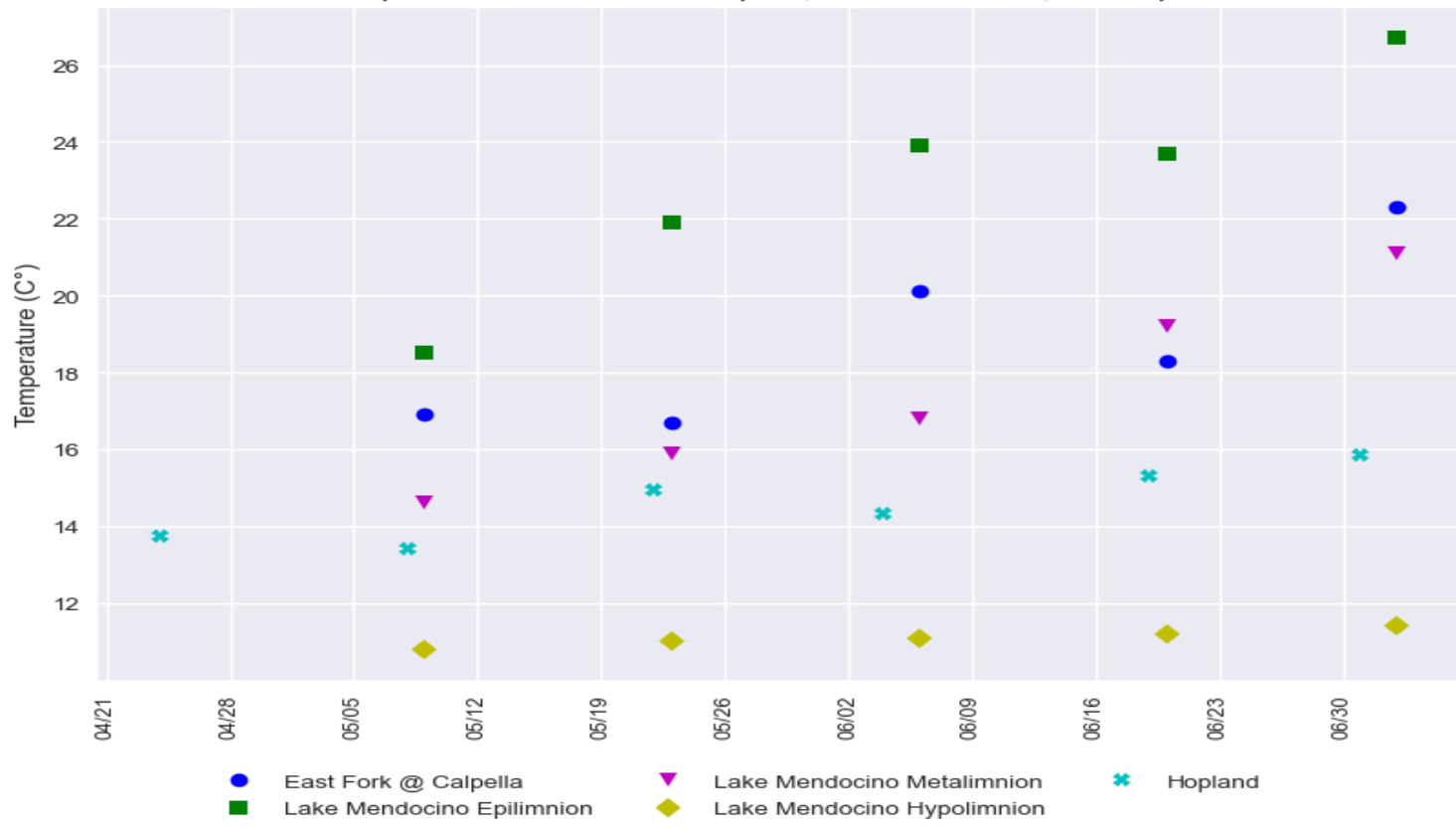
River Diversion System at Mirabel - Difference between Daily Maximum and Minimum for DO and pH



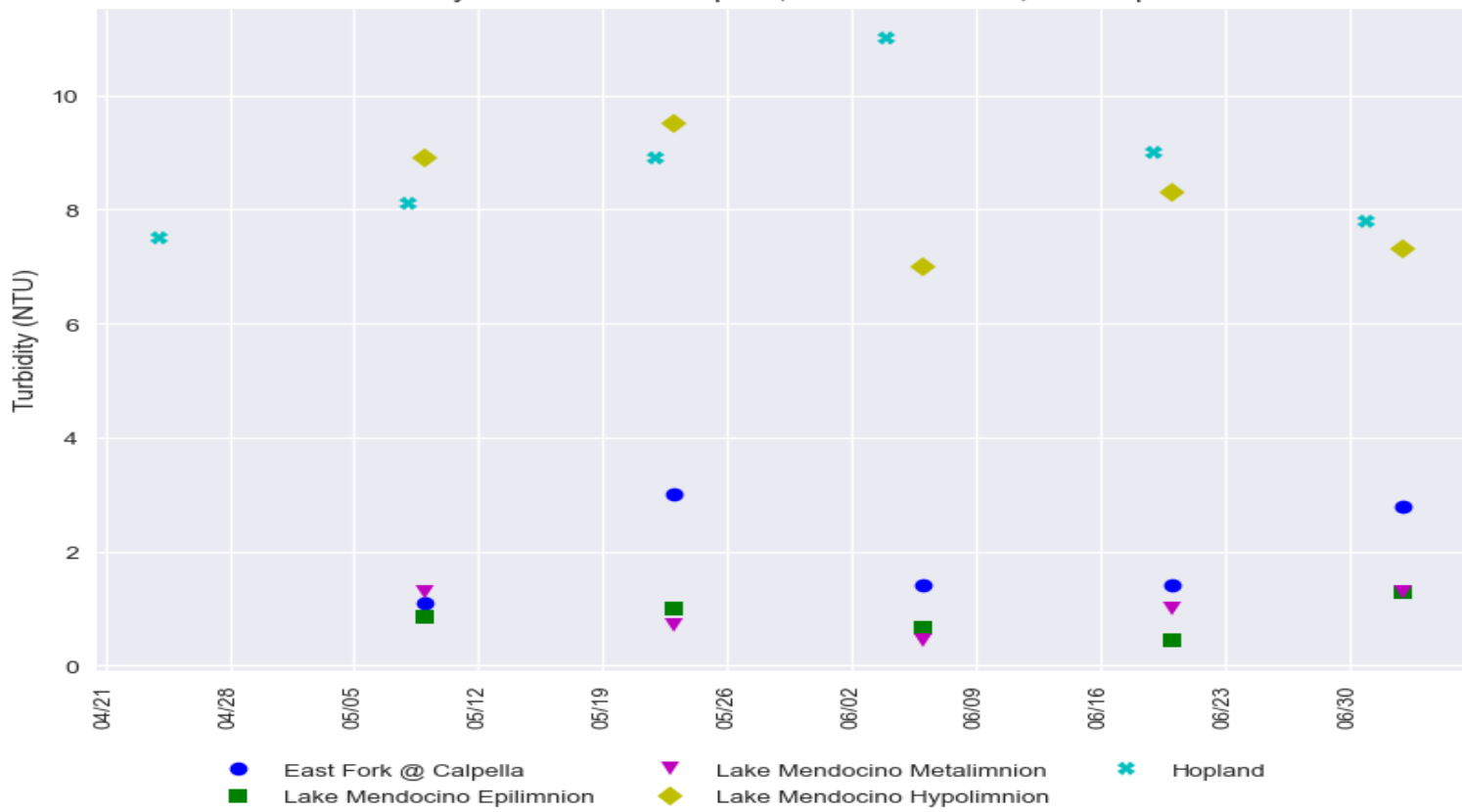
Russian River Water Quality Grab Samples

Provisional Data Subject to Revision

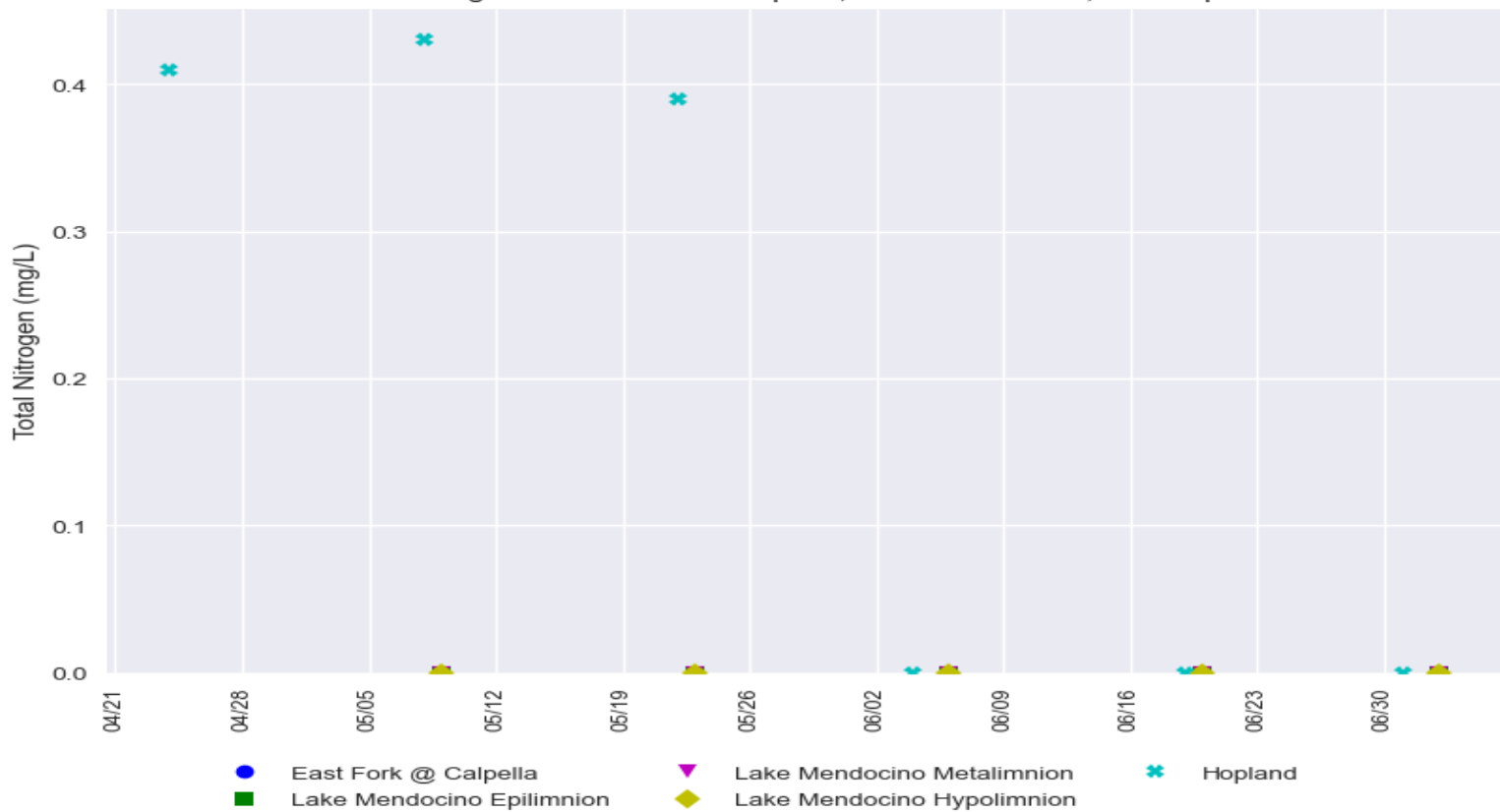
Temperature - East Fork at Calpella, Lake Mendocino, and Hopland



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

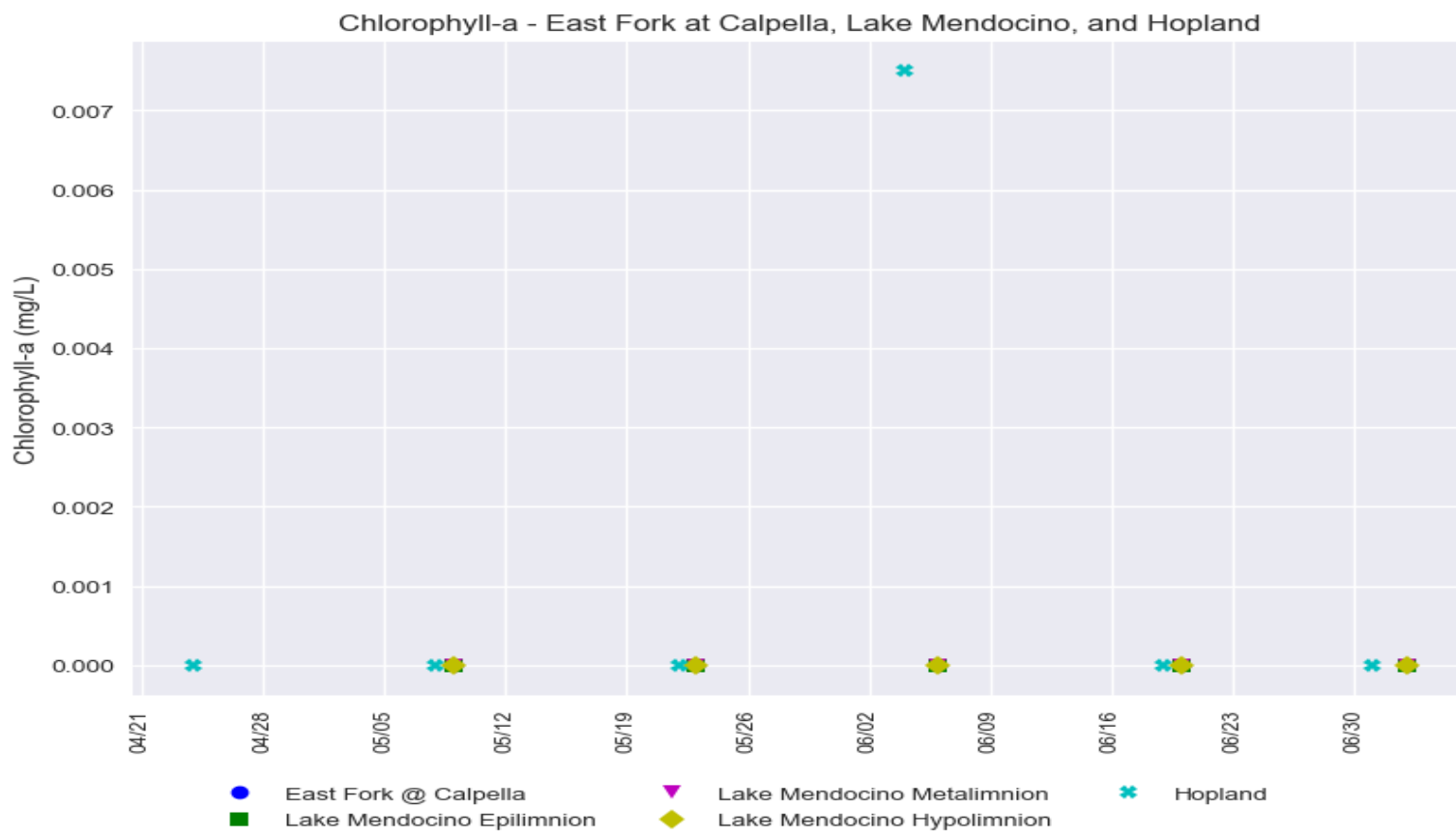
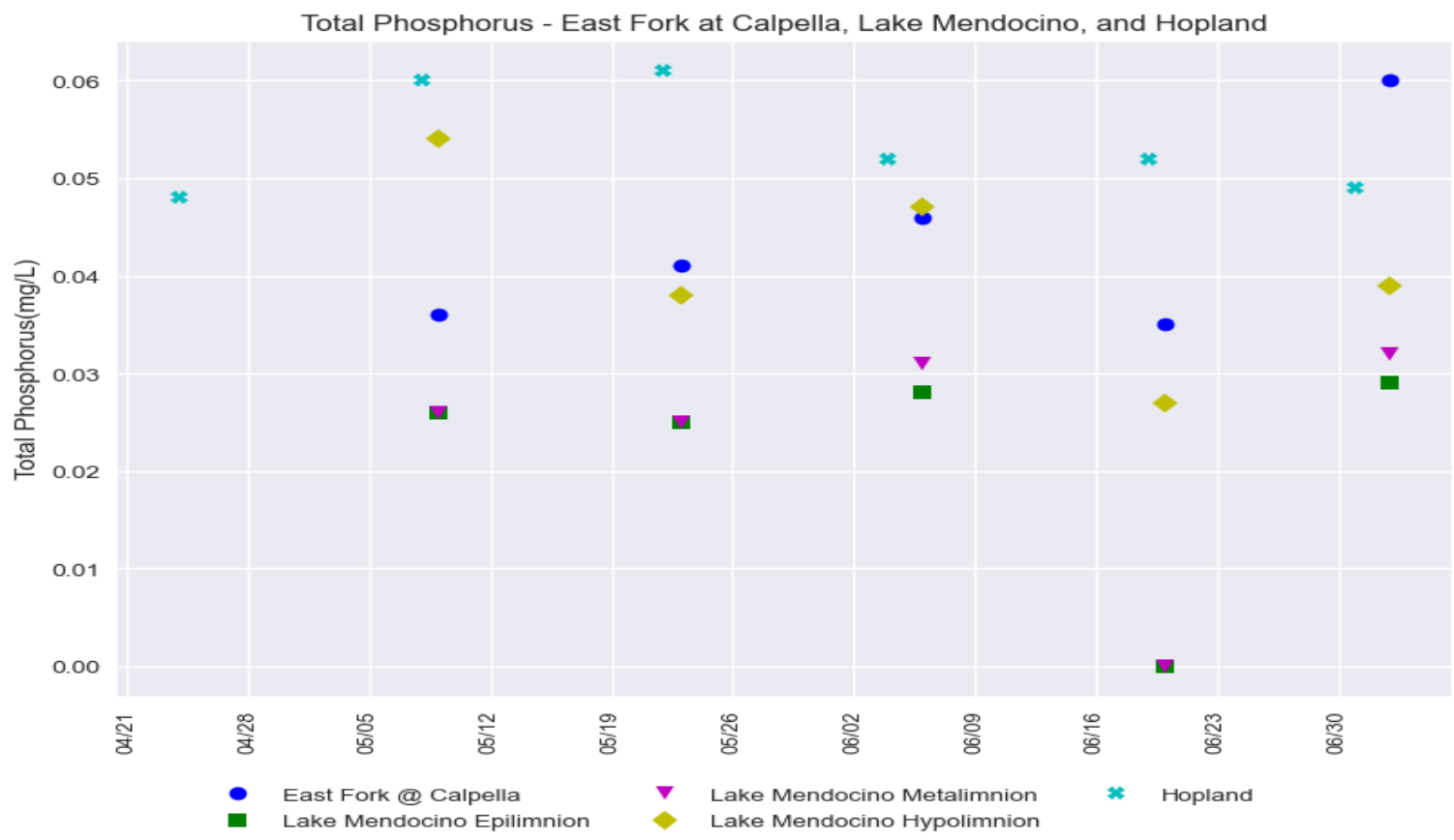


Total Nitrogen (mg/L) - East Fork at Calpella, Lake Mendocino, and Hopland



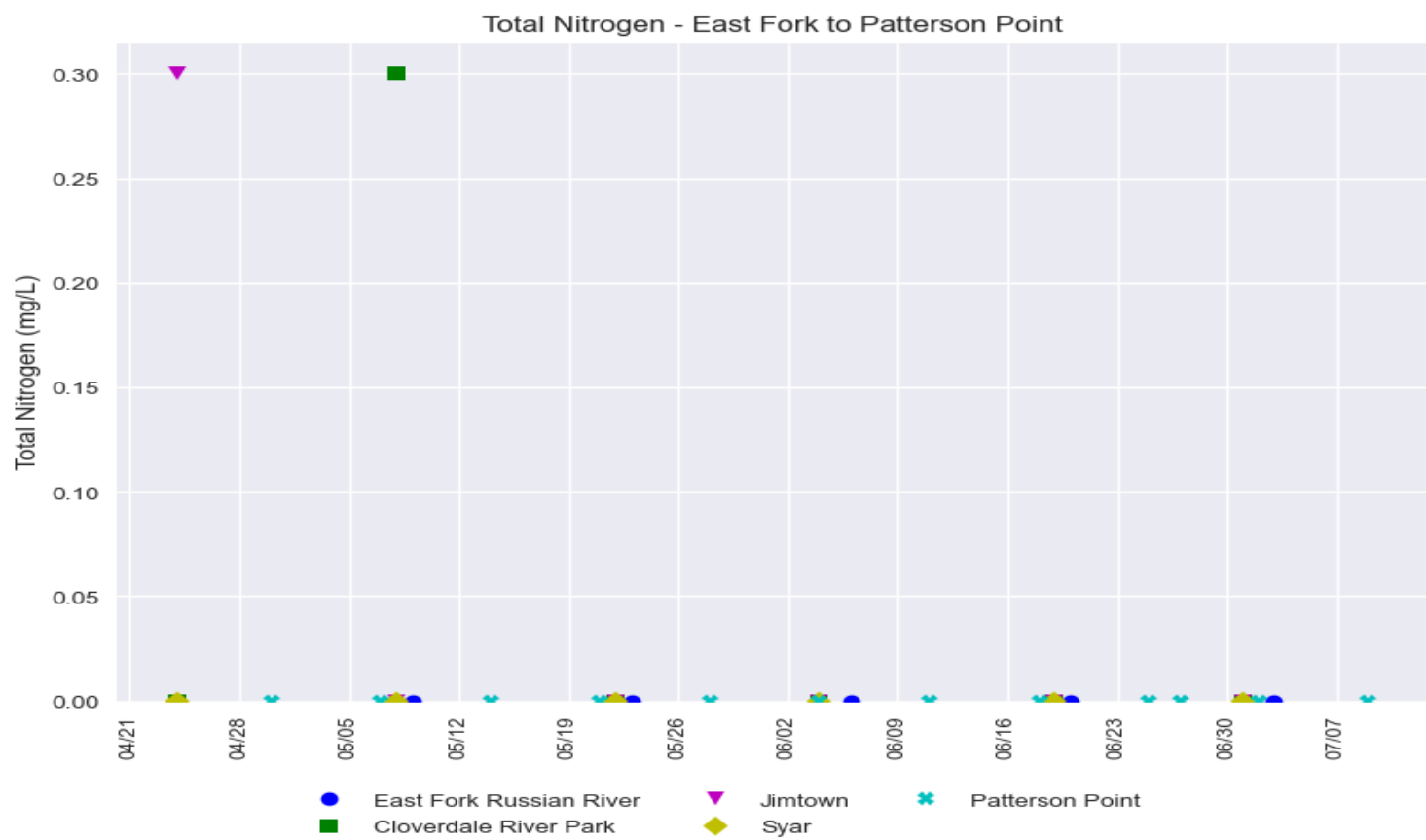
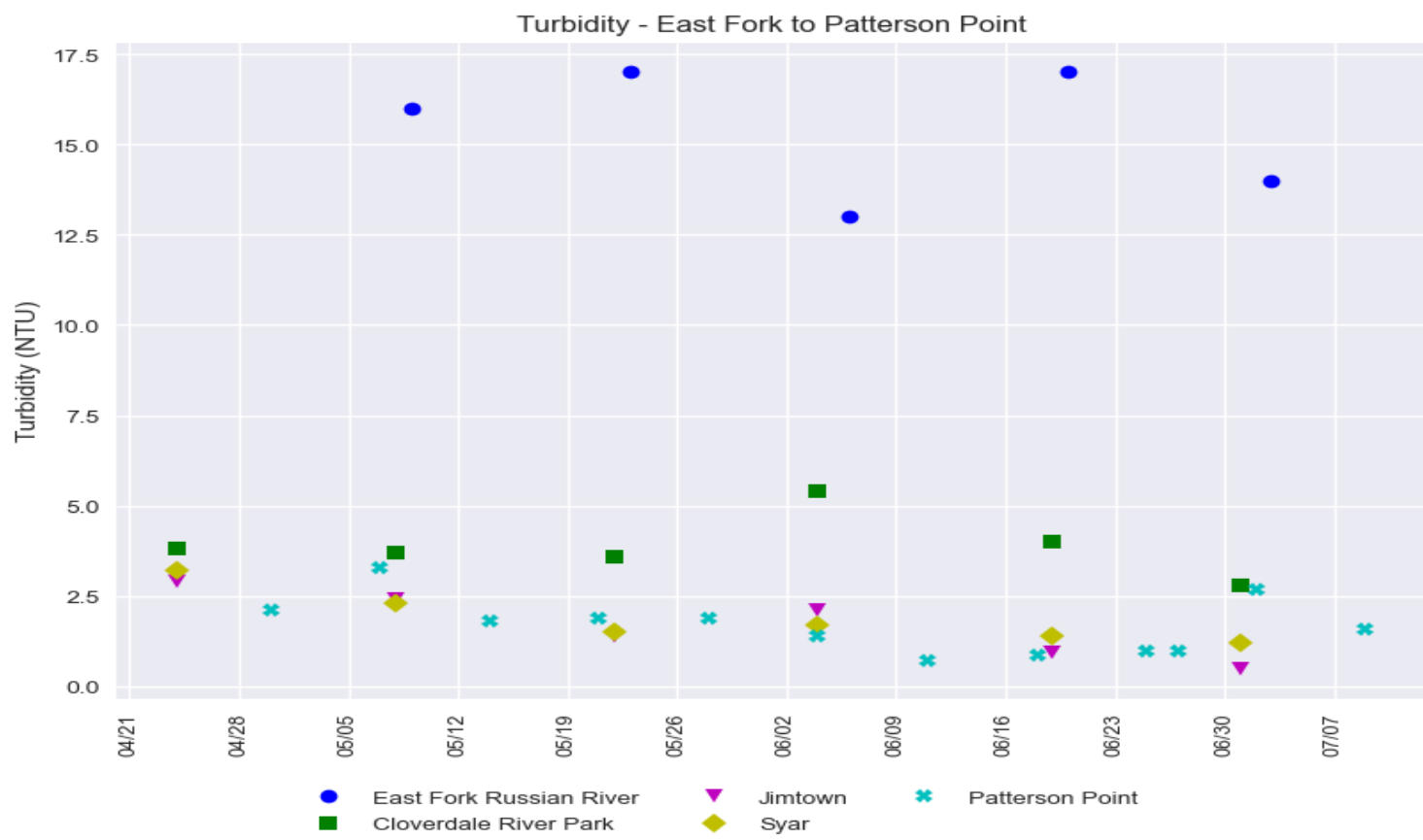
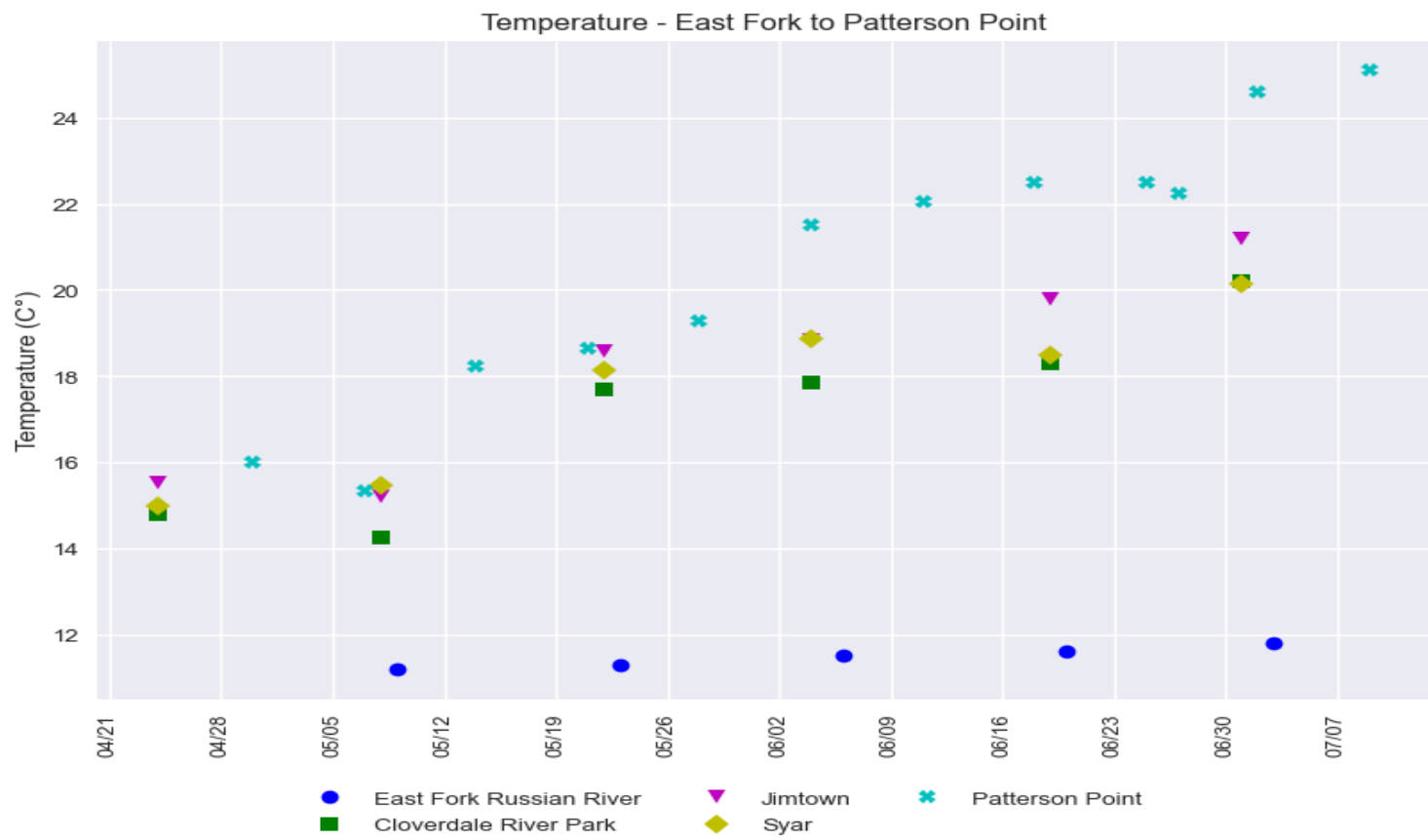
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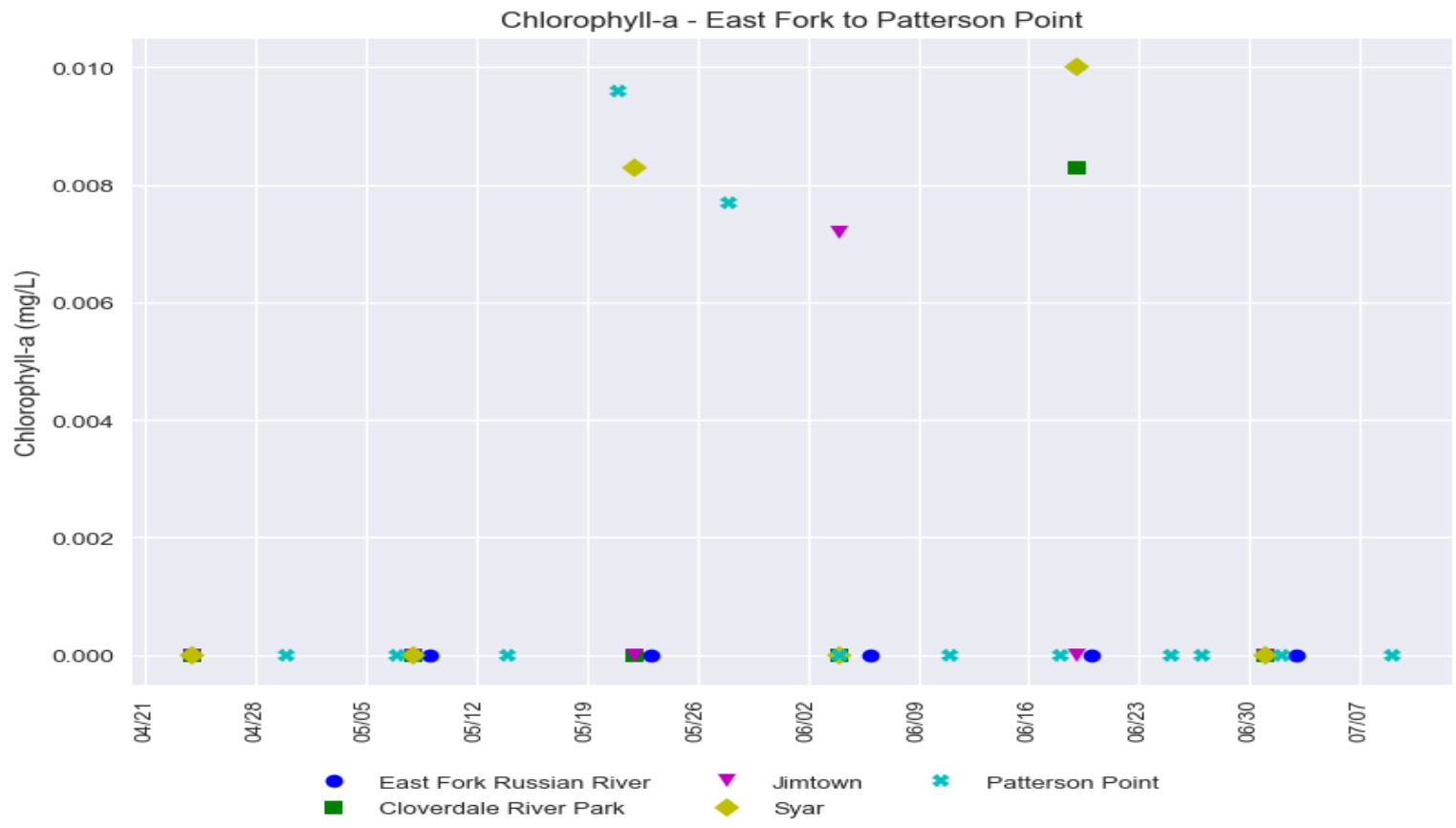
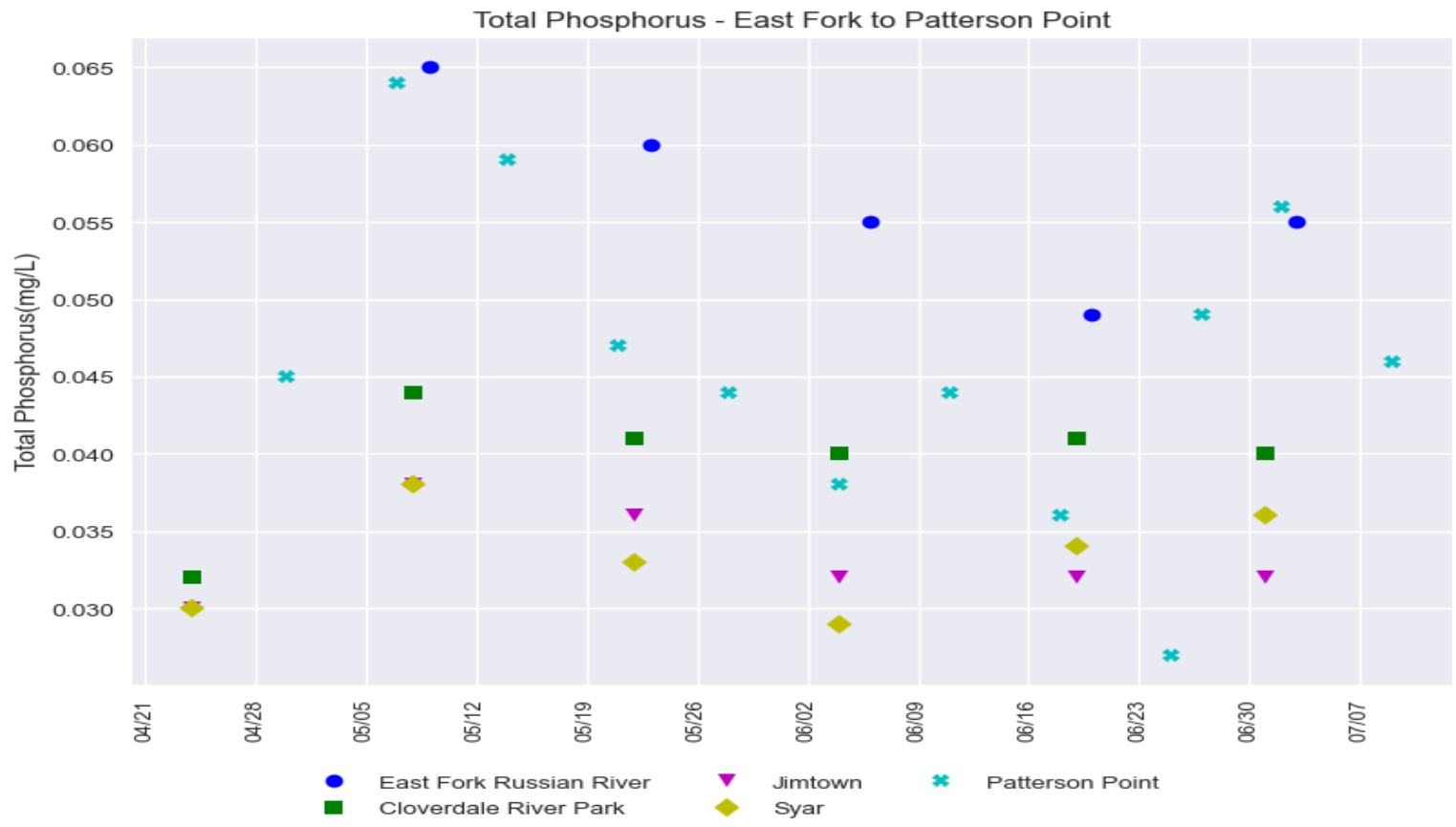
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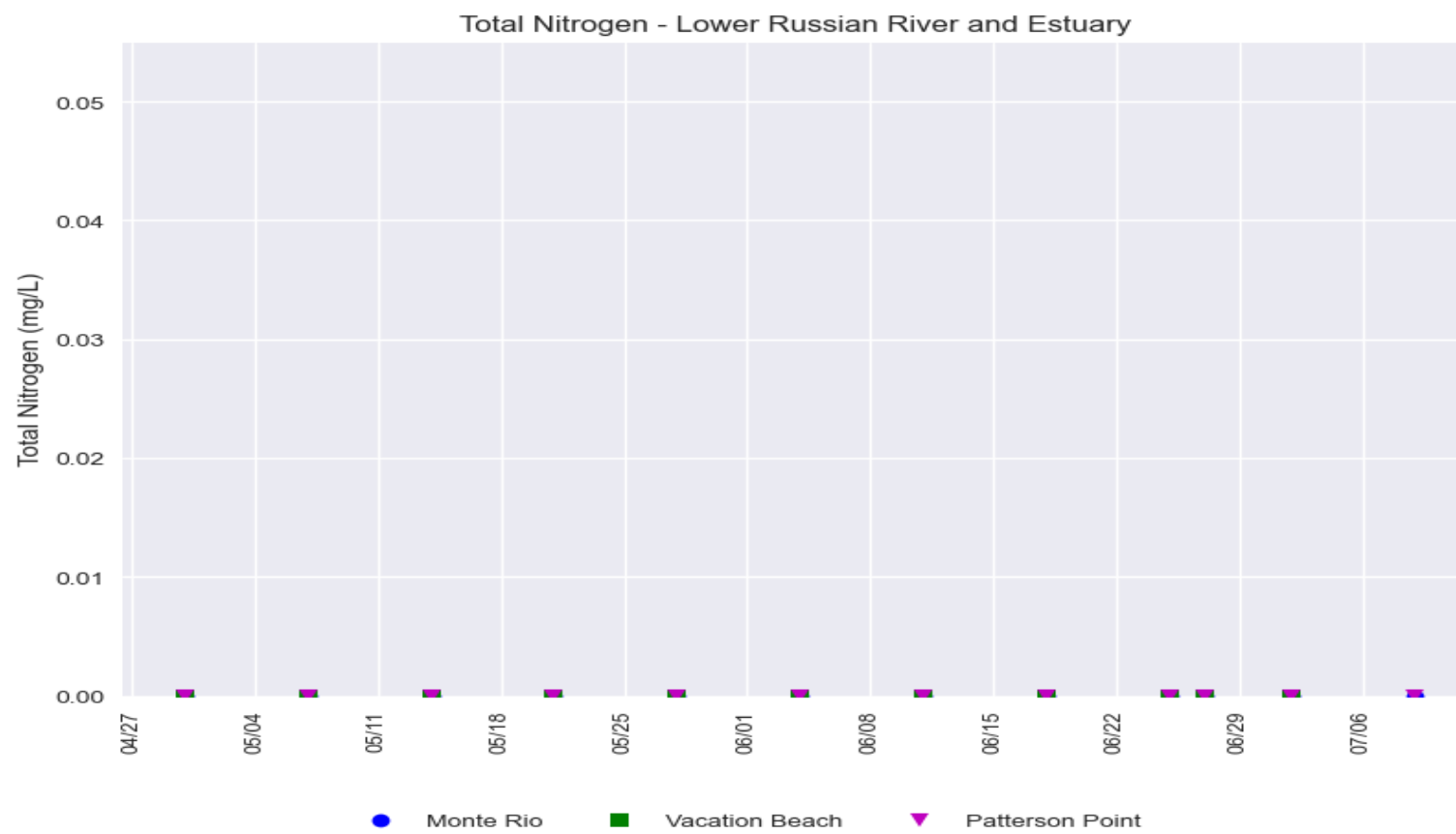
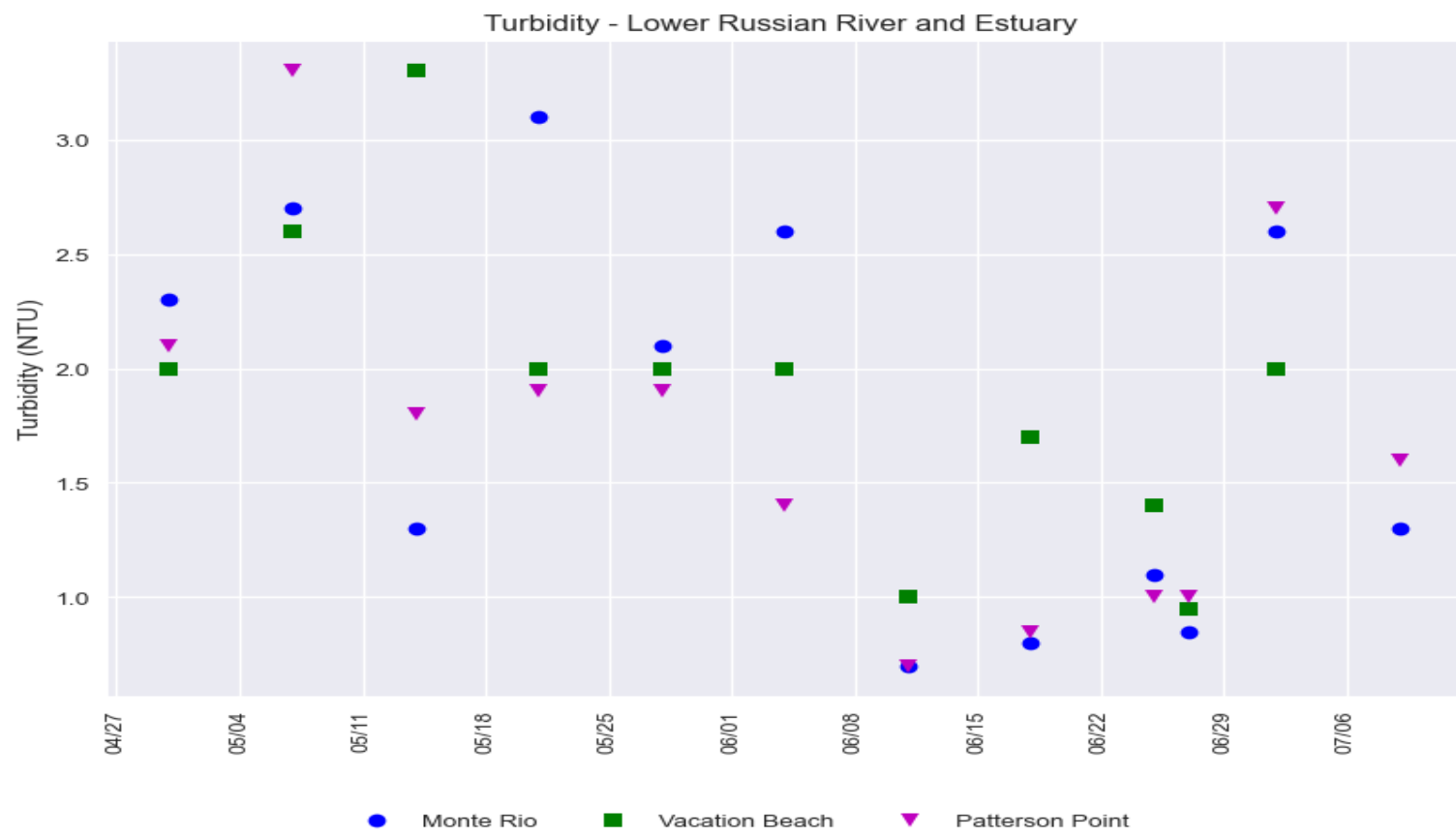
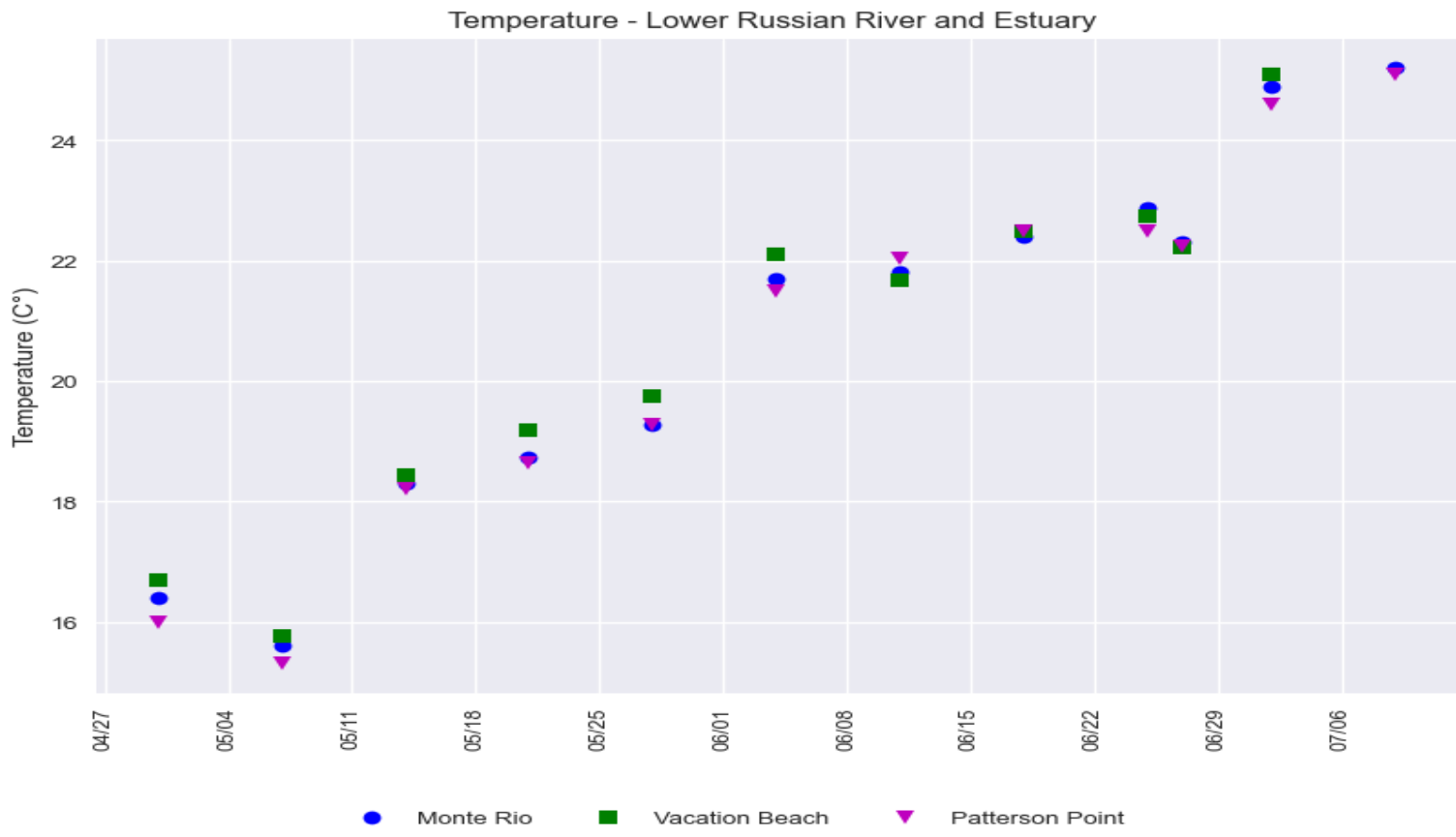
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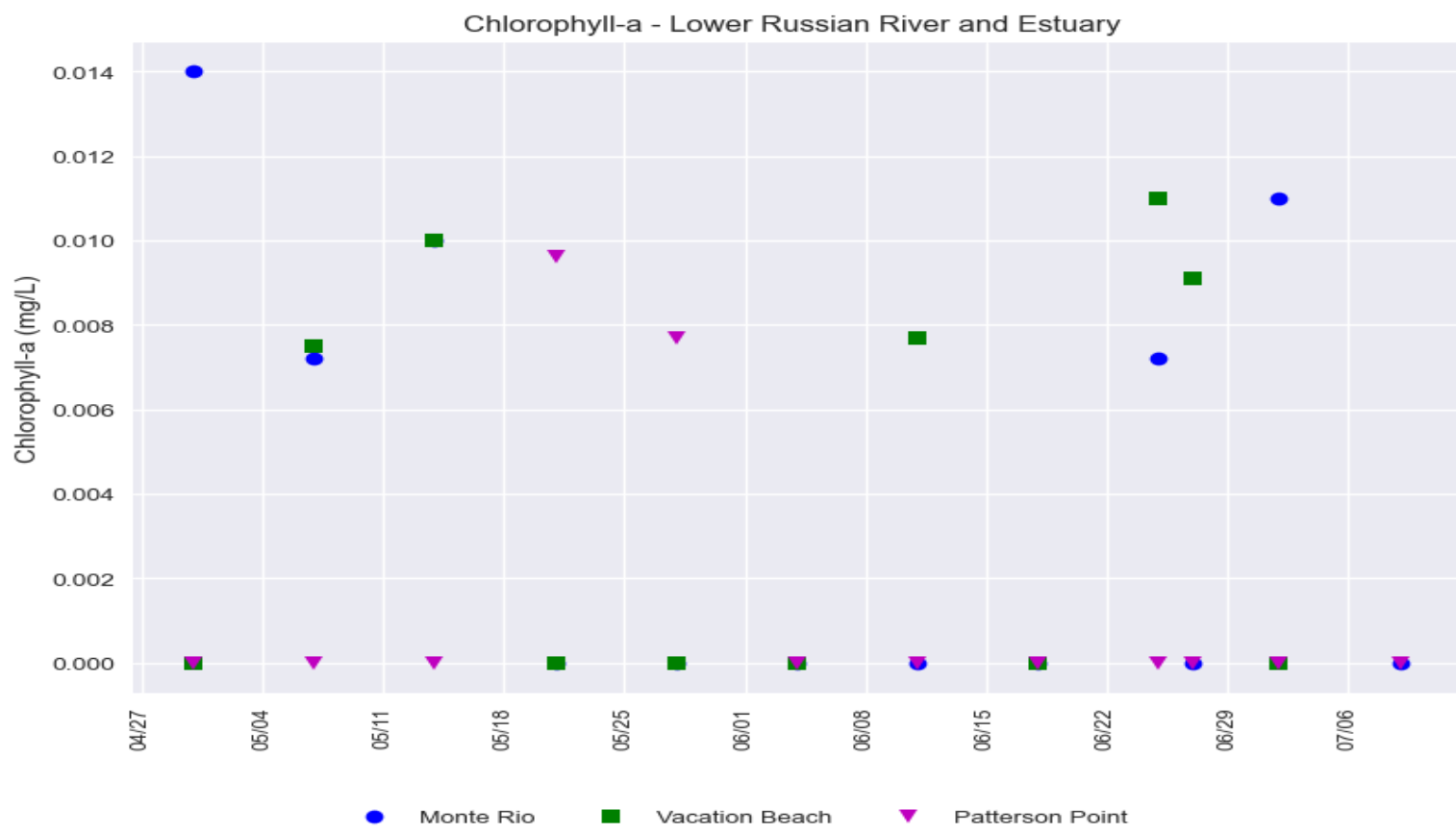
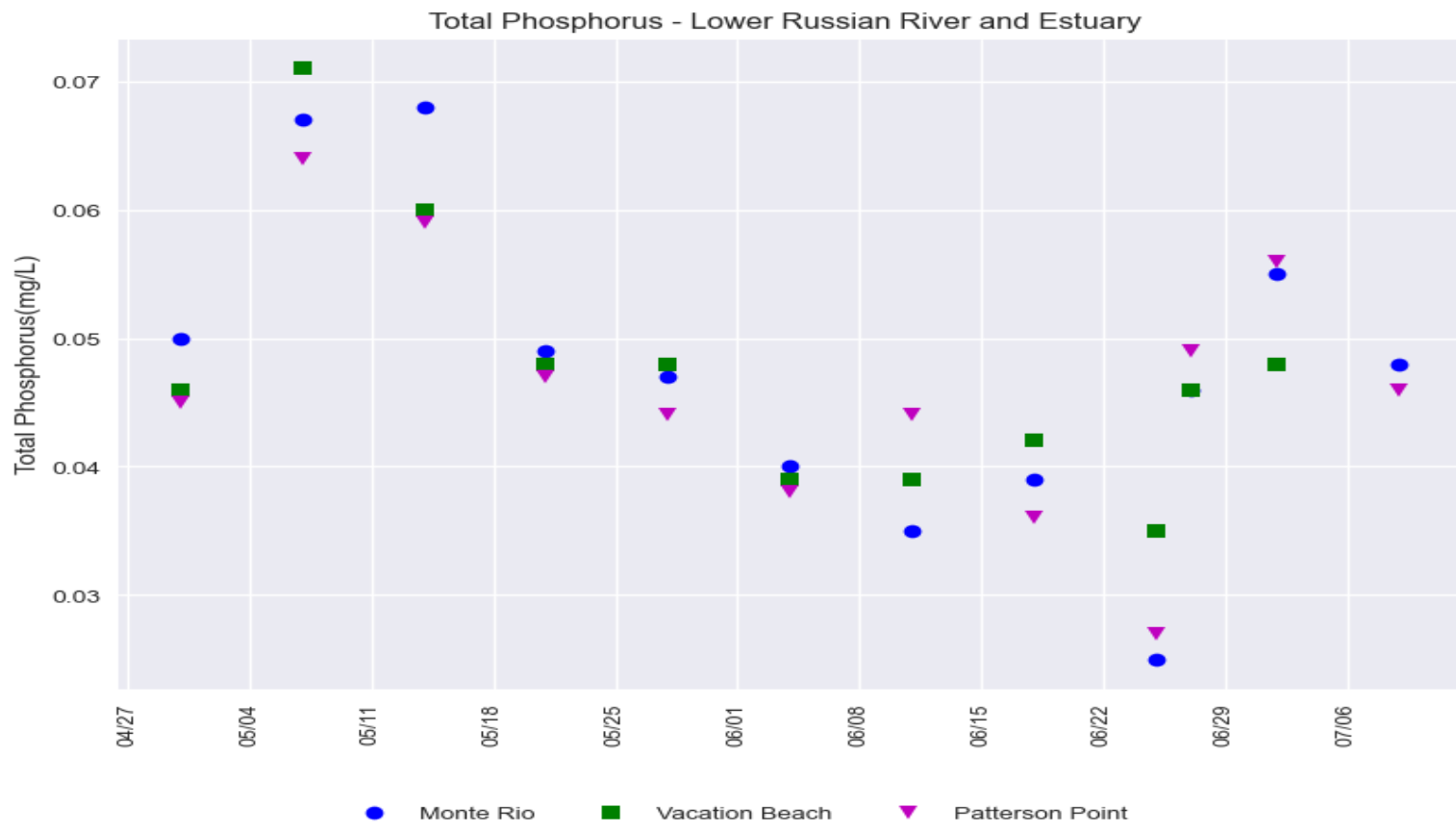
Russian River Water Quality Grab Samples

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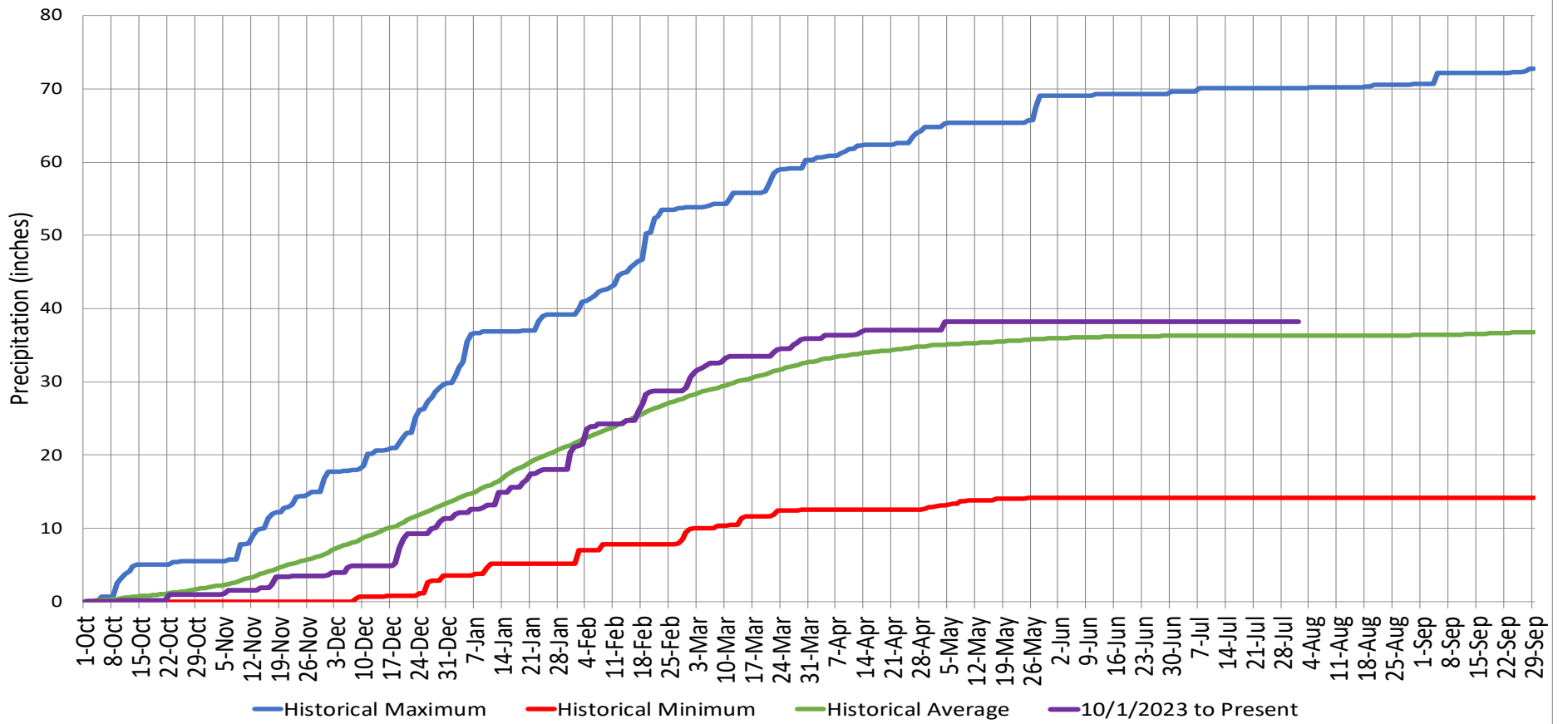


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

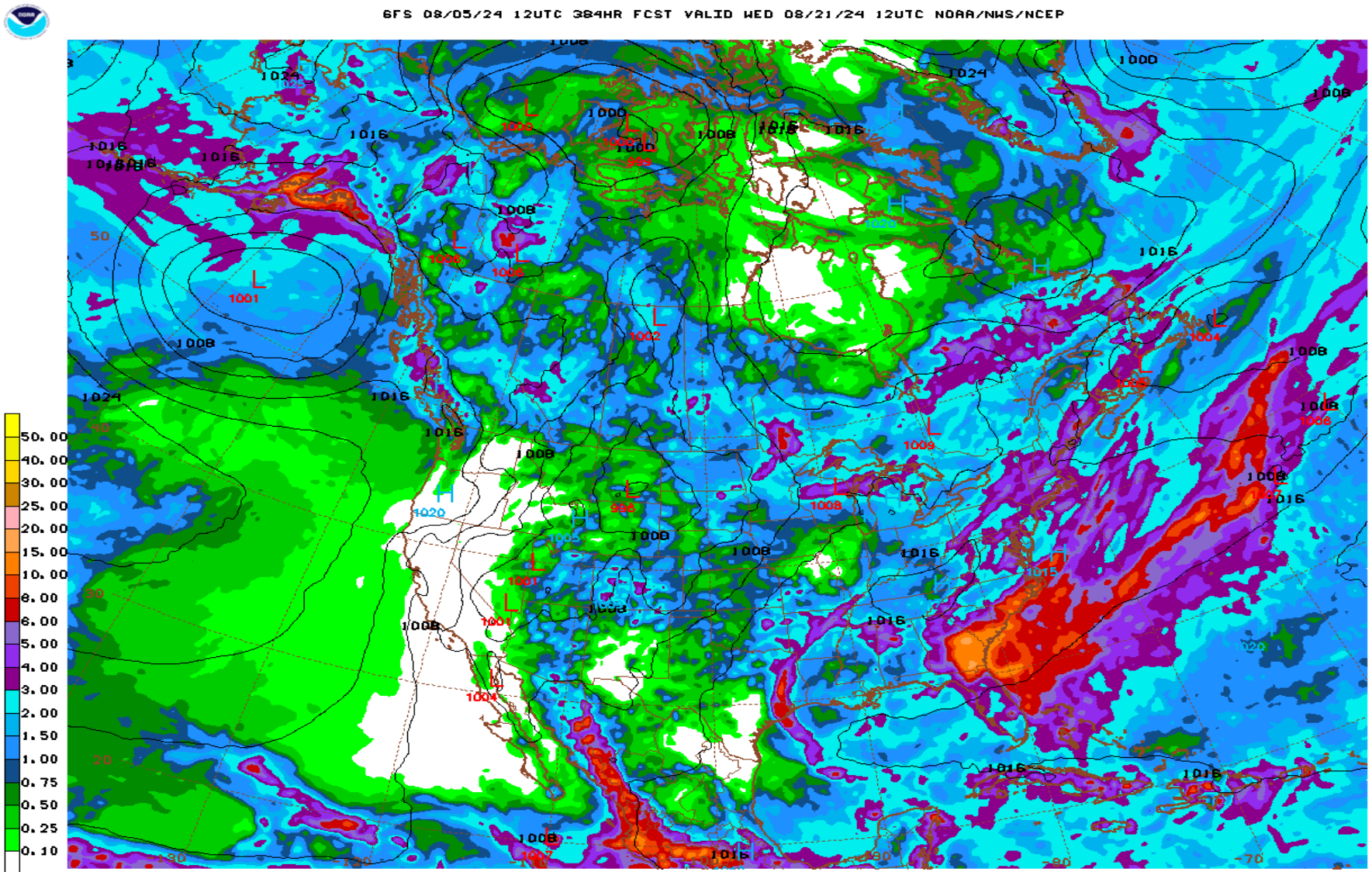
Date Range	Cumulative (inches)
Oct 1, 2023 - Aug 1, 2024	38.22
Last 7 Days*	0.00

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

6FS 08/05/24 12UTC 384HR FCST VALID WED 08/21/24 12UTC NOAA/NWS/NCEP



6FS WED 240821/1200V384 ENSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Aug 5 - Aug 21, 2024

Forecasted Cumulative (inches)
0.00