



State Water Resources Control Board  
 Temporary Urgency Change Order (12/27/2023)  
 Russian River Hydrologic & Water Quality Report  
 April 5, 2024 - April 11, 2024

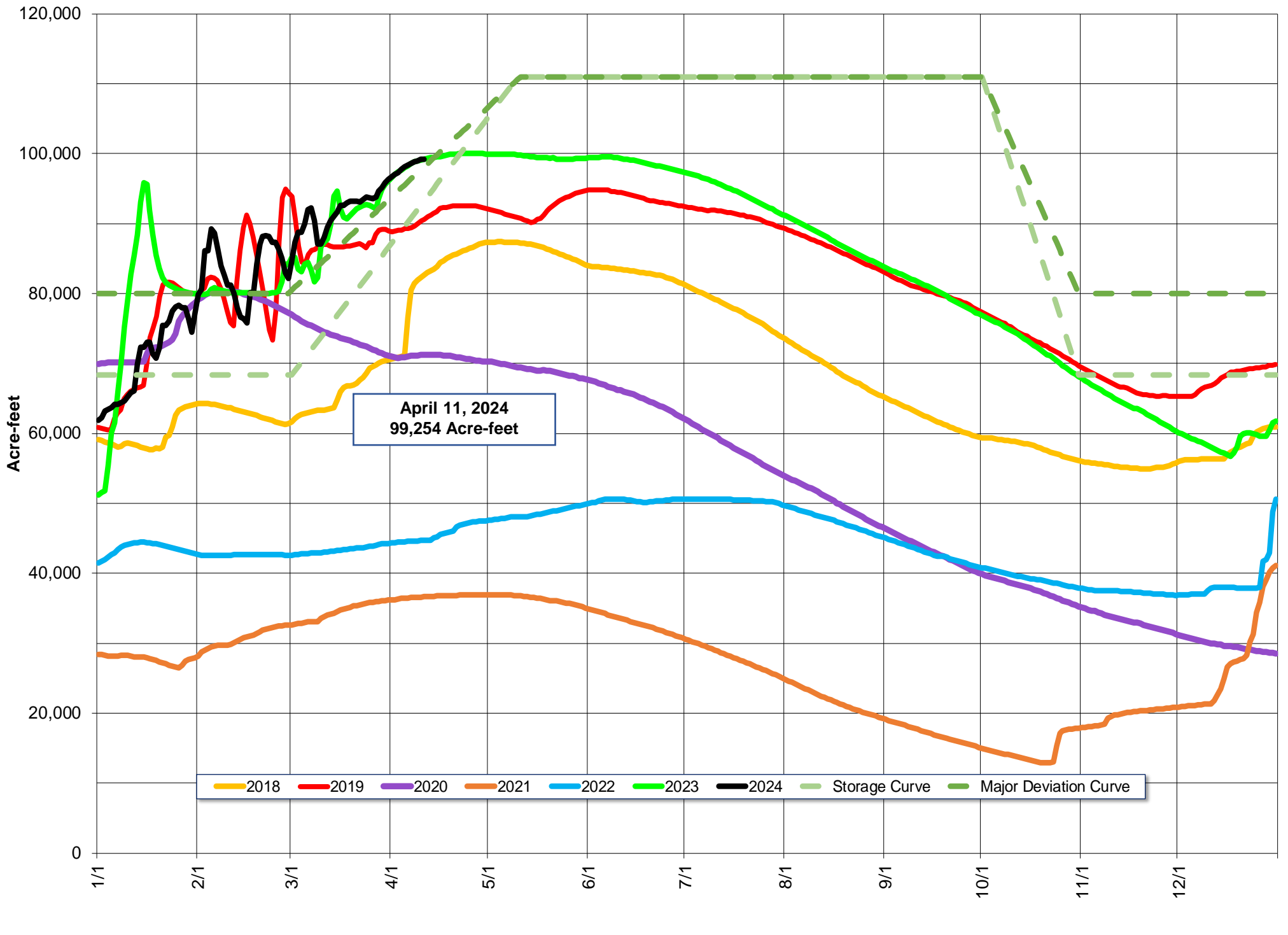
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

**Instream Flow Requirements as of April 11, 2024**

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	<b>185</b>	-
Modified Per Order: Normal Condition	Dry Creek	<b>75</b>	-
Modified Per Order: Normal Condition	Lower Russian River	<b>125</b>	-

**Lake Mendocino**

**Lake Mendocino Storage 2018 - 2024 and Storage Curve**



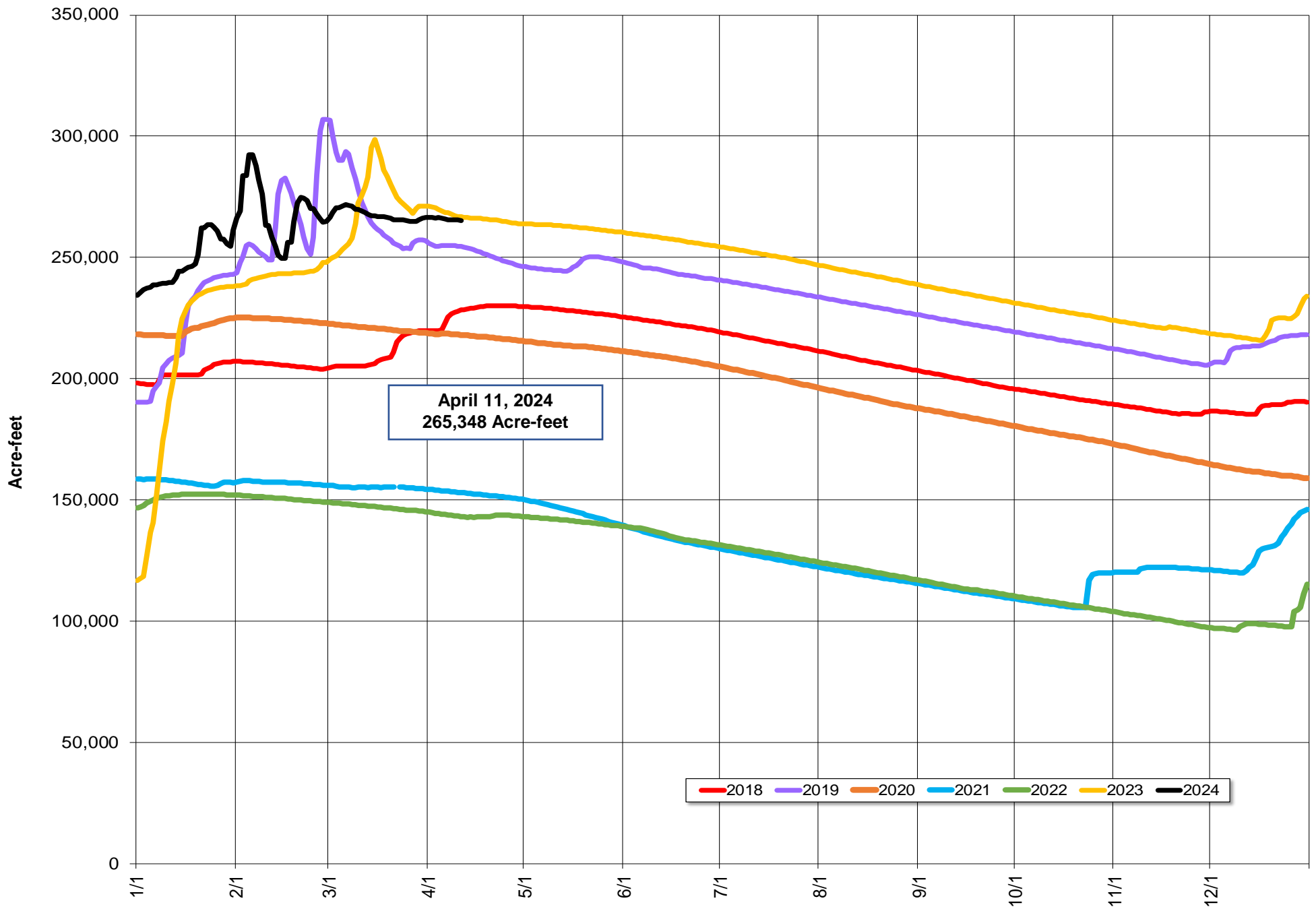
Storage (acre-feet)	April 11, 2024	<b>99,254</b>	
Change in Storage (acre-feet)	Last 30 days	<b>9,767</b>	<b>326</b>
	Last 7 days	<b>1,141</b>	<b>163</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>153</b>
		Max	<b>285</b>
		Mean	<b>204</b>
Release (cfs)	Last 7 days	Min	<b>73</b>
		Max	<b>129</b>
		Mean	<b>96</b>

# Lake Sonoma



Todd Schram, February 10, 2024

## Lake Sonoma Storage 2018-2024



Storage (acre-feet)	April 11, 2024	<b>265,348</b>	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		<b>-3,271</b>	<b>-109</b>
	Last 7 days	<b>-1,032</b>	<b>-147</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>201</b>
		Max	<b>390</b>
		Mean	<b>407</b>
Release (cfs)	Last 7 days	Min	<b>220</b>
		Max	<b>495</b>
		Mean	<b>315</b>

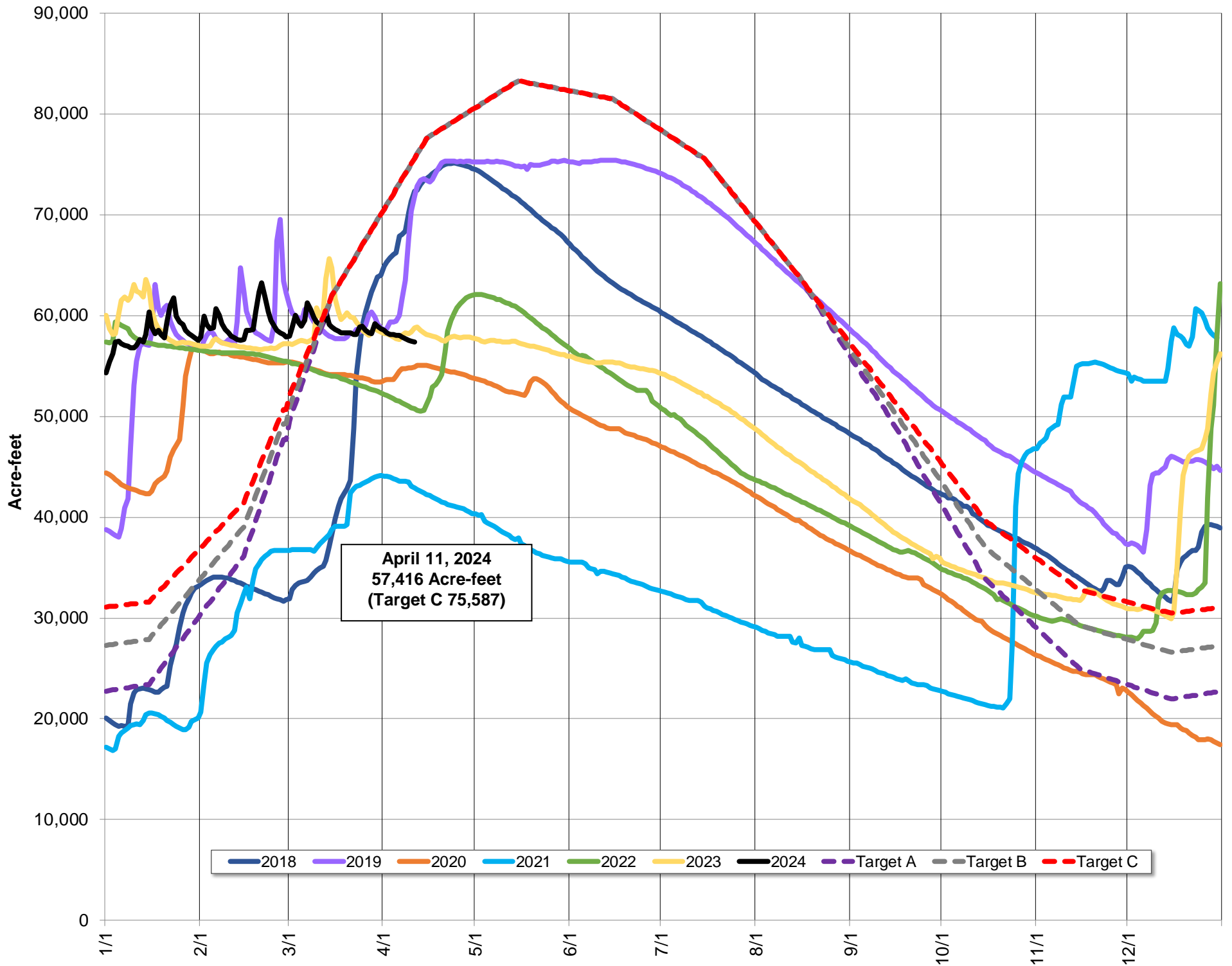
# Potter Valley Project

PVP Diversion (cfs)	April 11, 2024	46
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - April 11, 2024	427,675	2,205
	Last 7 days	10,203	1,458

\*Inflow calculation based on criteria established in D1610

### Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

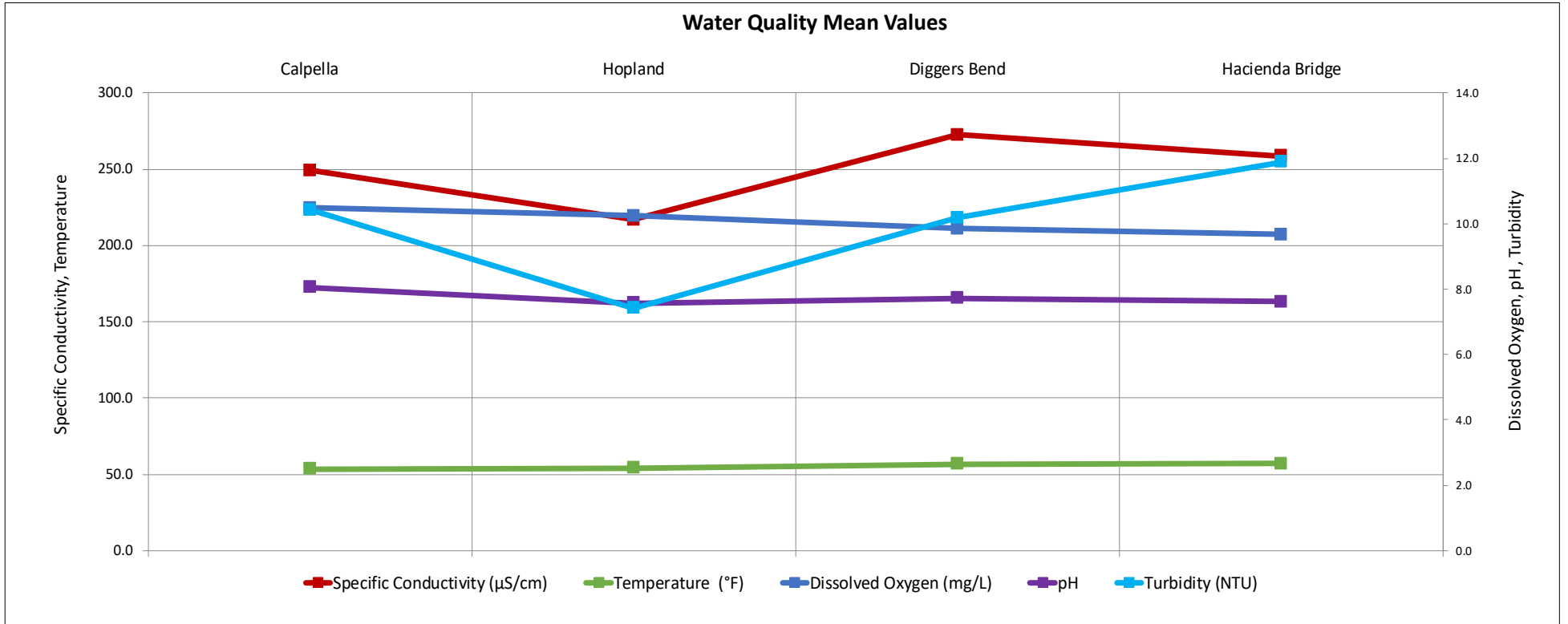


## Russian River Flows (April 5, 2024 - April 11, 2024)

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	47.8	49.3		51.6	52.2		53.4	
	Max	60.3	59.0		62.8	63.0		62.4	
	Mean	53.3	54.2		56.3	56.6		56.9	
Specific Conductivity (µS/cm)	Min	239.0	191.0			253.0		243.0	
	Max	255.0	231.0			290.0		279.0	
	Mean	249.2	216.9			272.6		258.7	
Dissolved Oxygen (mg/L)	Min	9.5	9.5			9.1		9.1	
	Max	11.3	10.9			10.4		10.1	
	Mean	10.5	10.2			9.9		9.7	
Dissolved Oxygen (% Saturation)	Min	93.0	91.5			91.1		90.2	
	Max	105.4	100.4			99.8		97.2	
	Mean	96.9	95.7			94.9		93.5	
pH	Min	7.9	7.5			7.7		7.6	
	Max	8.3	7.6			7.8		7.7	
	Mean	8.0	7.6			7.7		7.6	
Turbidity (NTU)	Min	7.6	5.3			6.5		8.5	
	Max	20.3	15.7			14.5		15.7	
	Mean	10.4	7.4			10.2		11.9	

\*Station operated seasonally

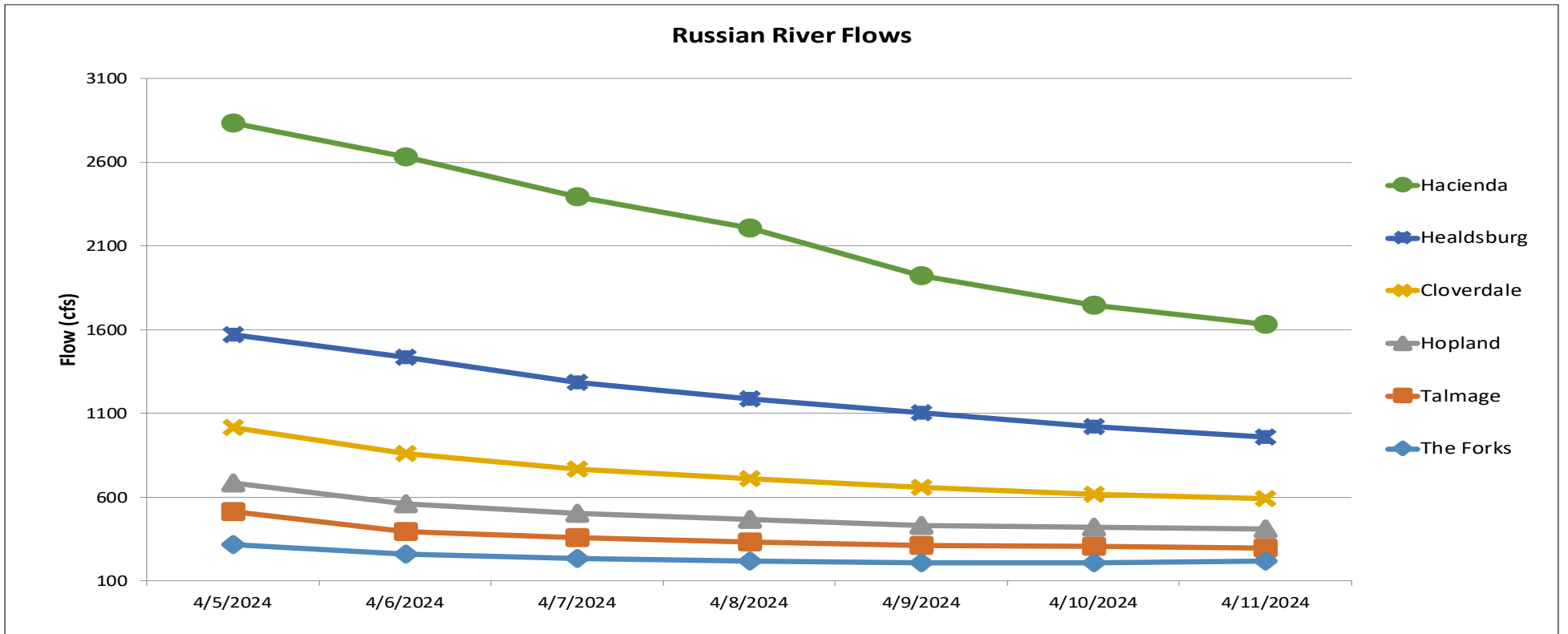
### Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Apr 5, 2024	Apr 6, 2024	Apr 7, 2024	Apr 8, 2024	Apr 9, 2024	Apr 10, 2024	Apr 11, 2024
The Forks*	319	258	236	219	209	208	217
Talmage USGS 11462080	515	395	357	332	311	304	298
Hopland USGS 11462500	687	562	502	466	433	420	407
Cloverdale USGS 11463000	1016	862	767	709	657	618	589
Healdsburg USGS 11464000	1569	1438	1284	1185	1102	1020	958
Hacienda USGS 11467000	2833	2631	2394	2209	1923	1748	1635

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

### Russian River Flows

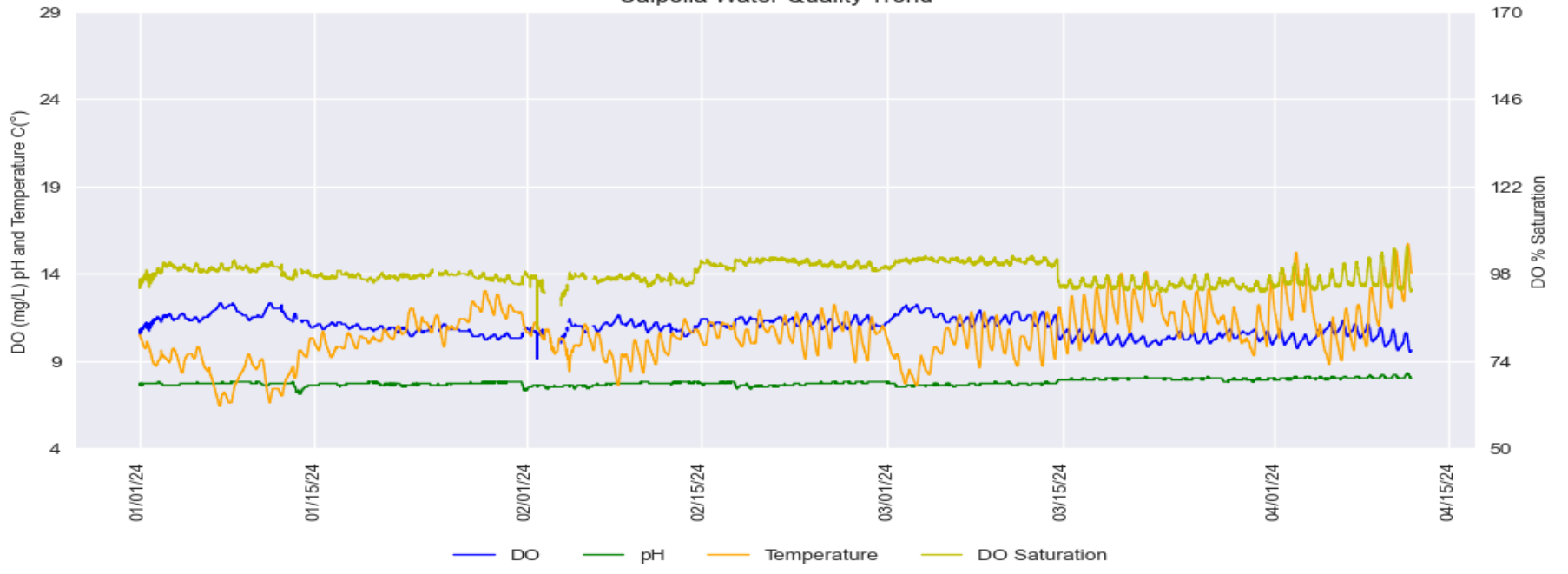


Russian River Water Quality January 1, 2024 – April 11, 2024

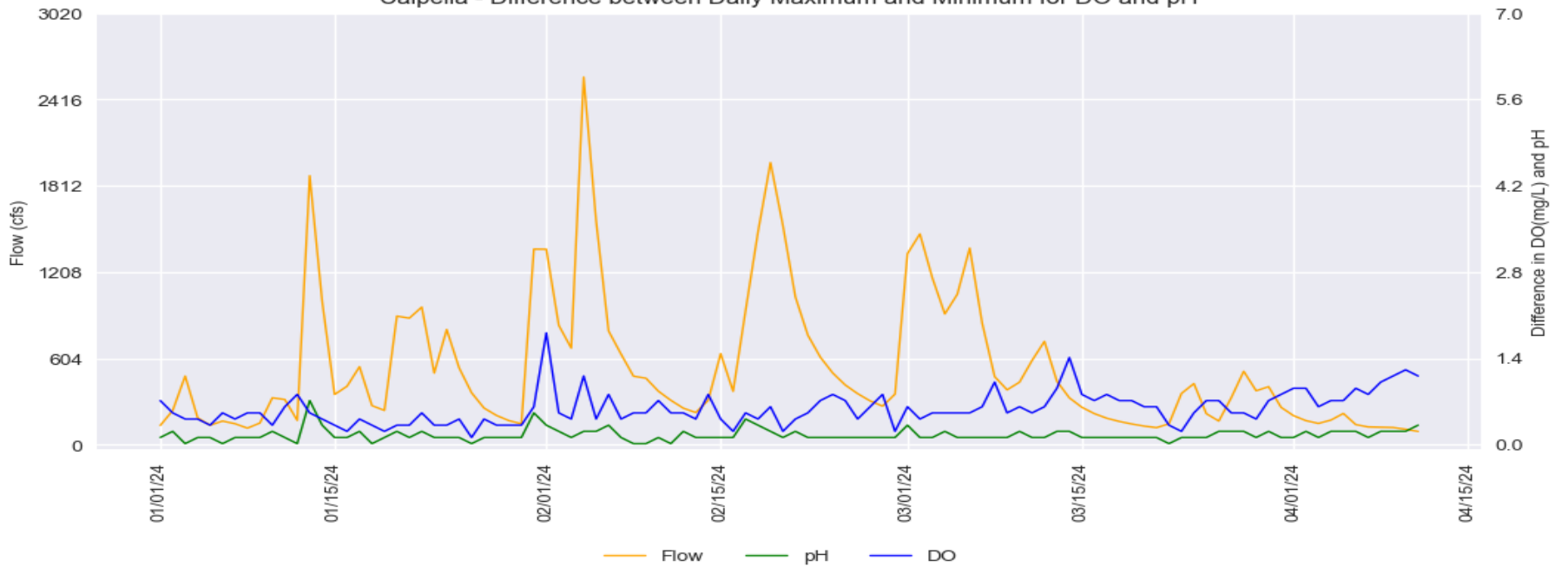
Provisional Data Subject to Revision

**Calpella**

Calpella Water Quality Trend

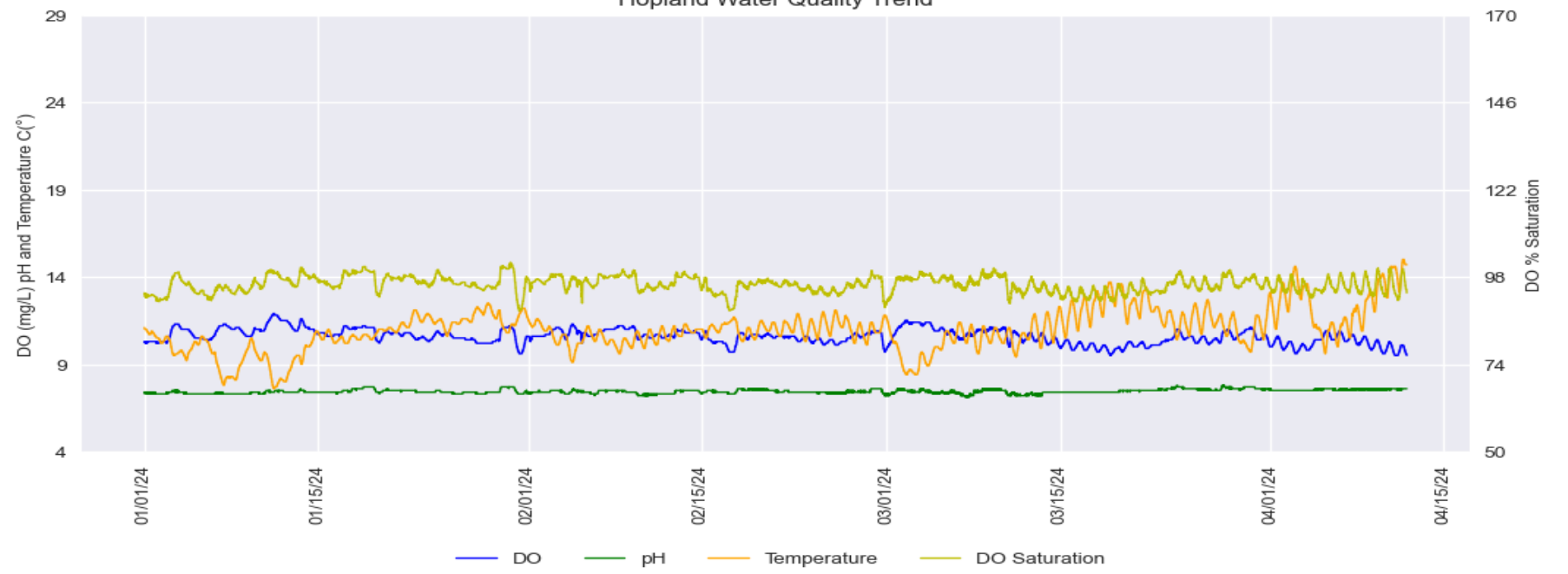


Calpella - Difference between Daily Maximum and Minimum for DO and pH

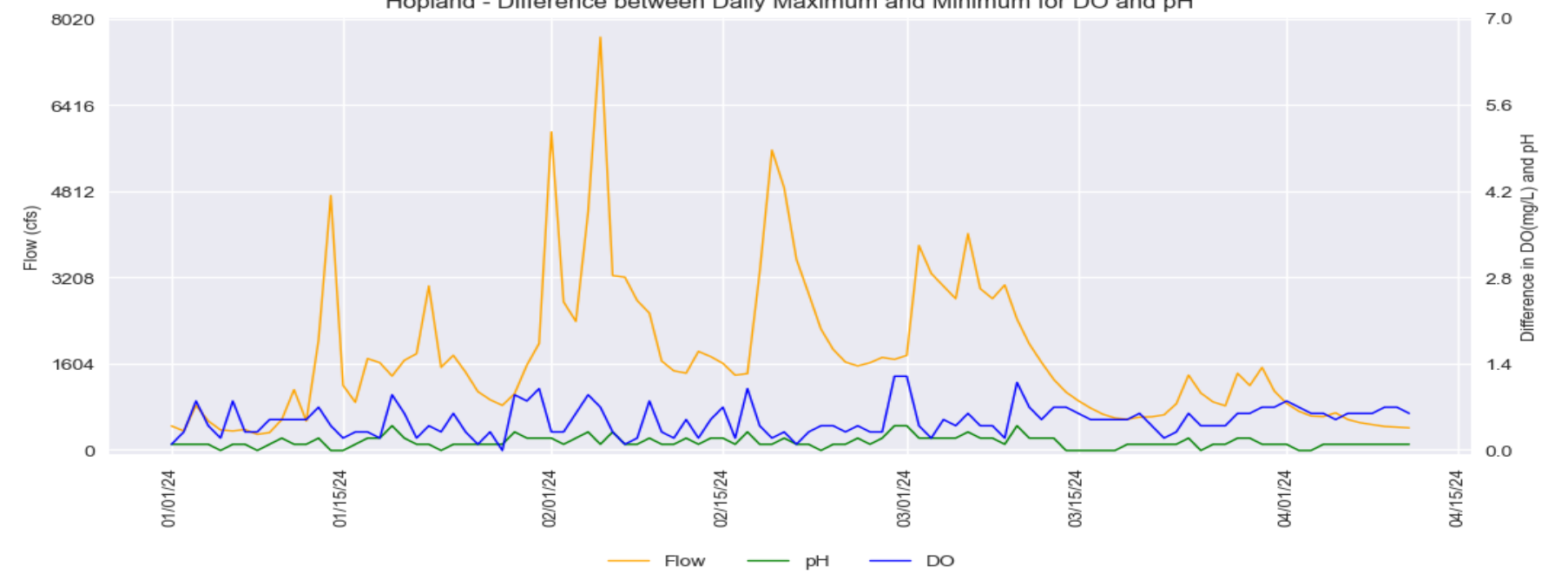


**Hopland**

Hopland Water Quality Trend



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

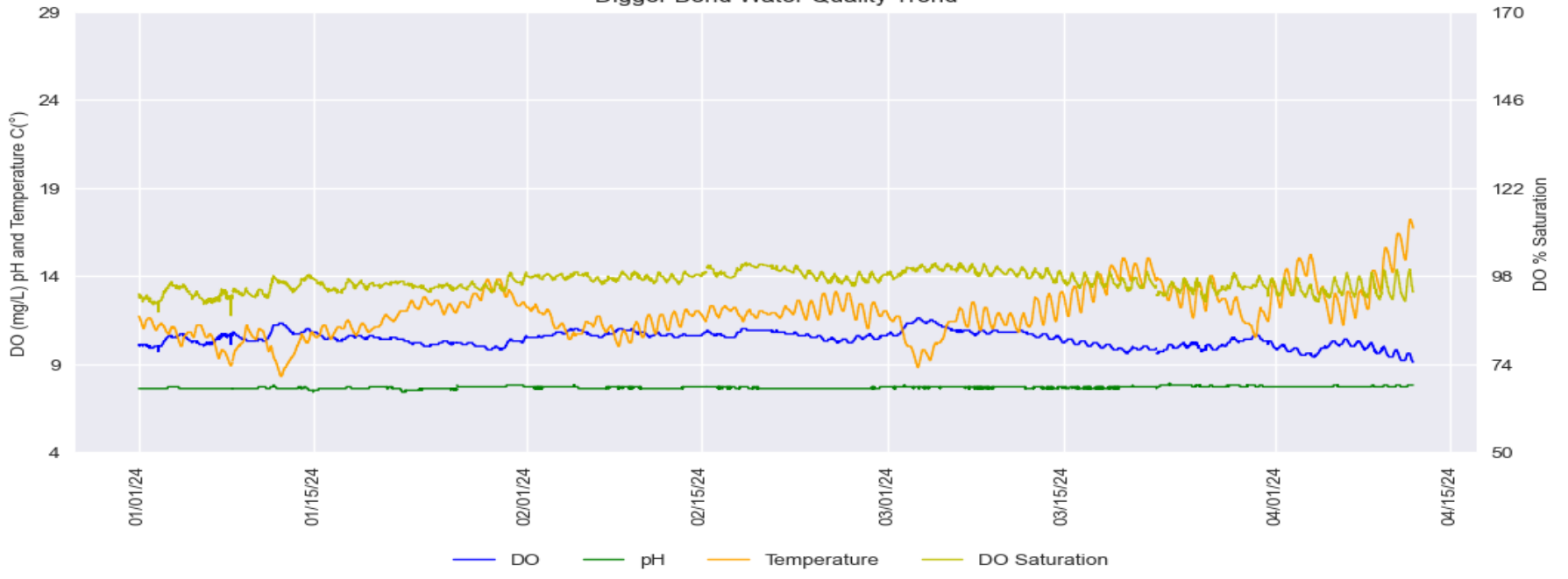


Russian River Water Quality January 1, 2024 – April 11, 2024

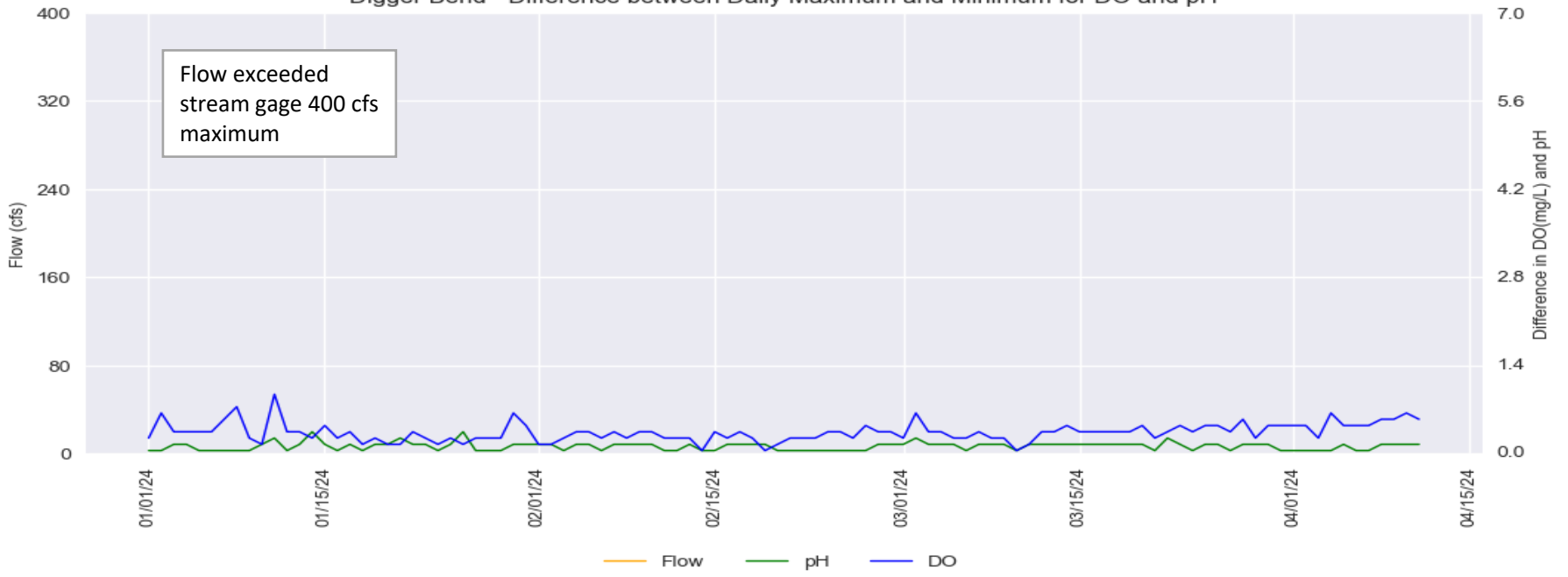
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

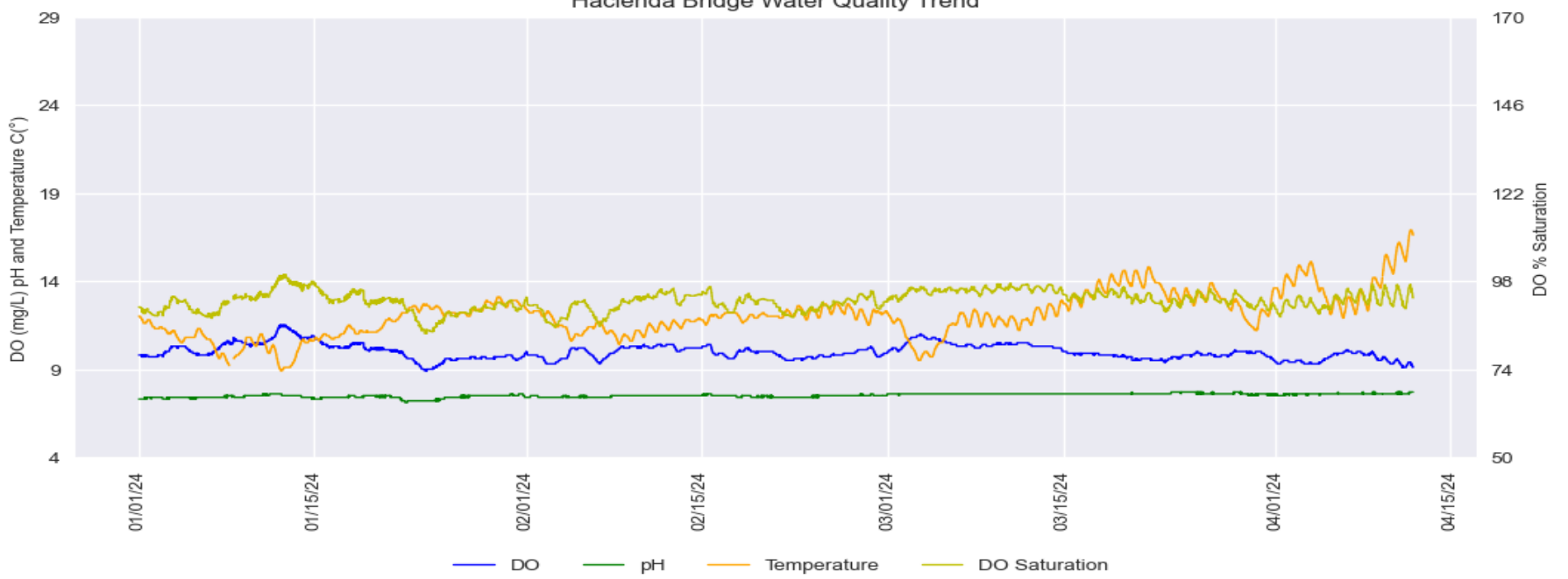


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

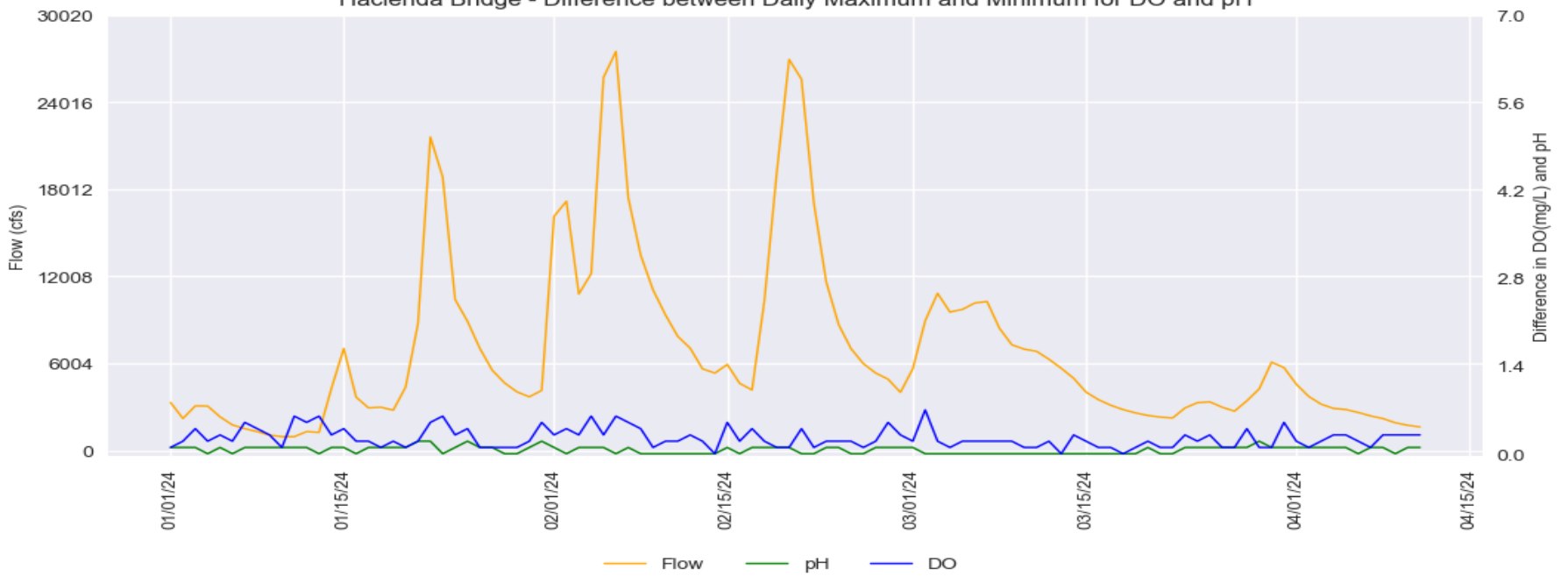


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

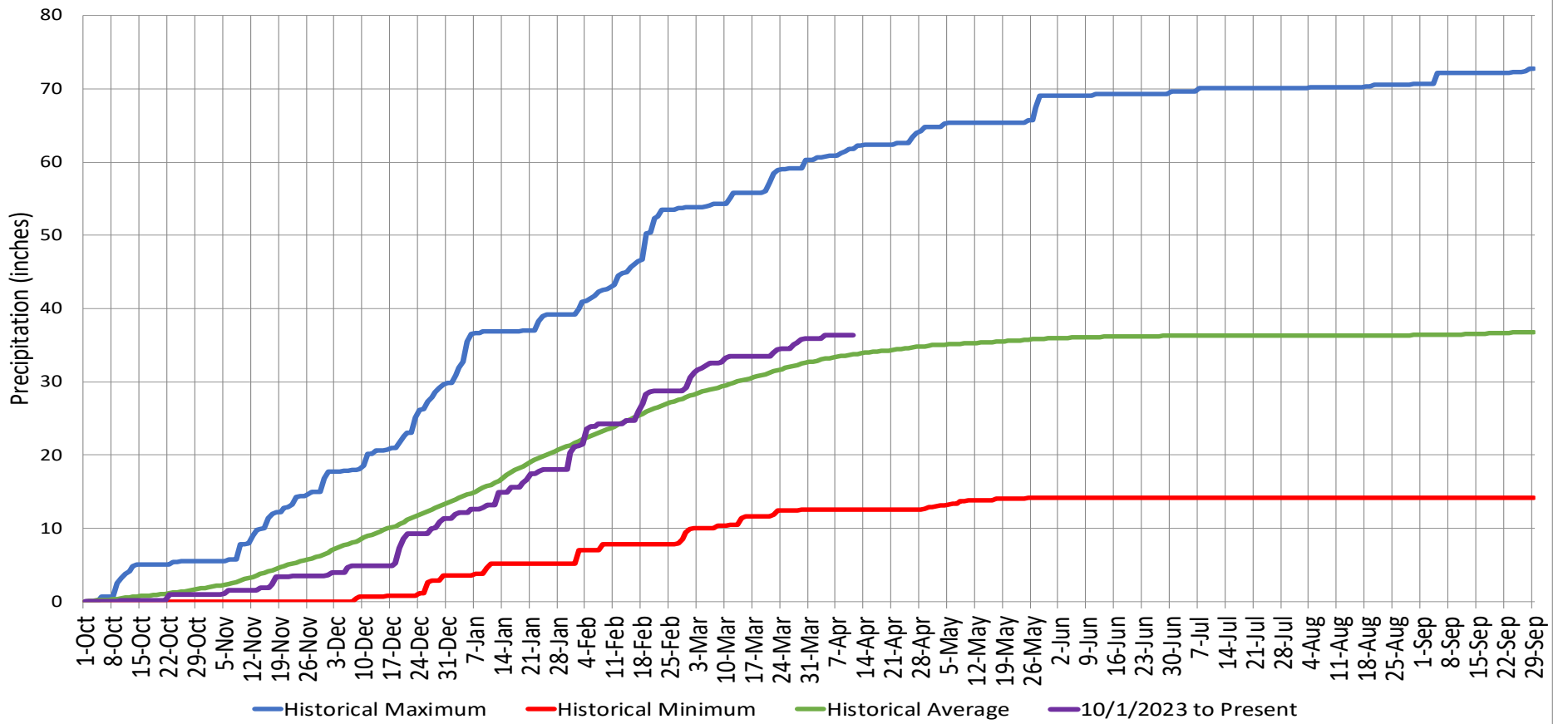


# Precipitation

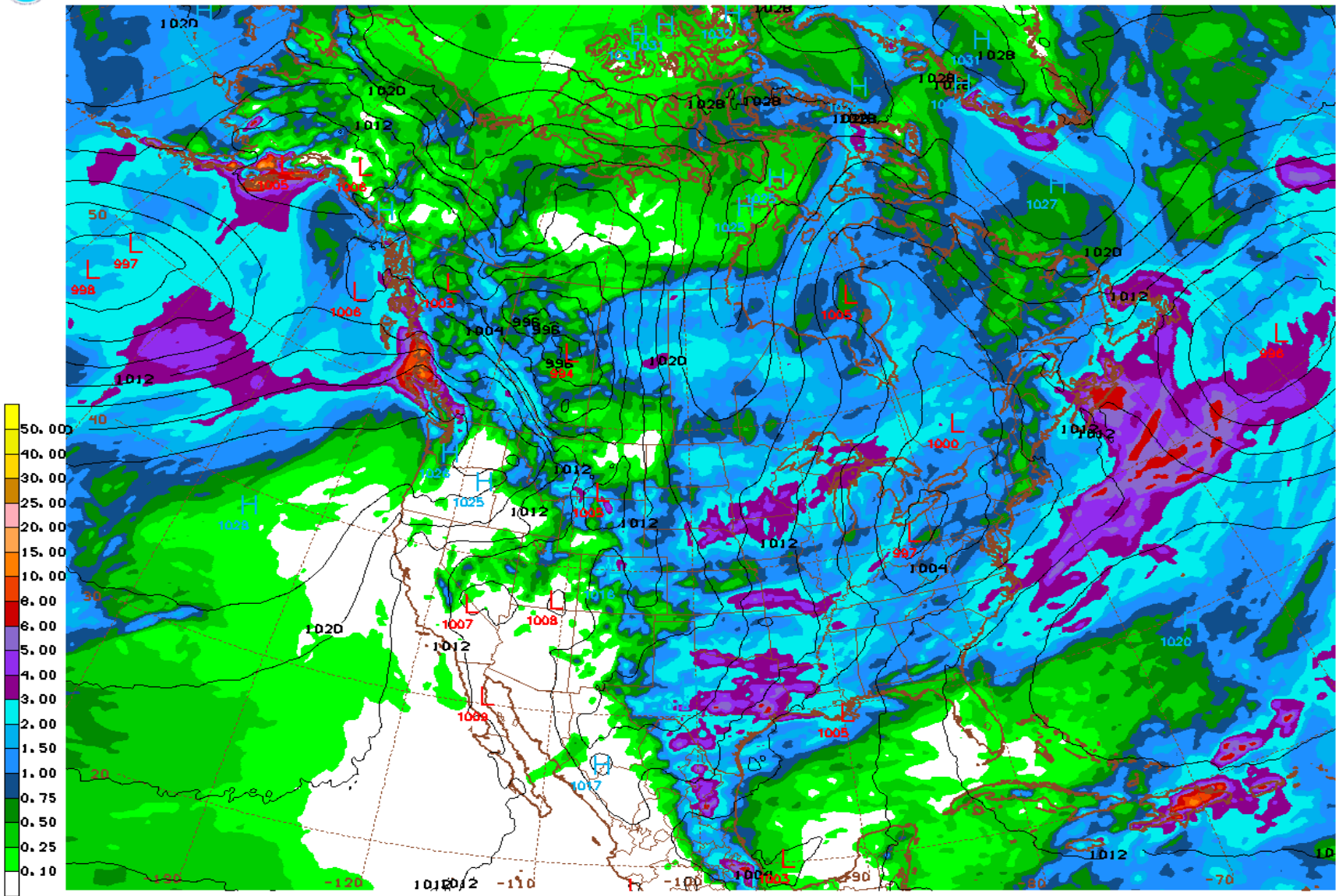
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2023 - Apr 11, 2024	<b>36.41</b>
Last 7 Days*	<b>0.02</b>

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 04/15/24 12UTC 384HR FCST VALID WED 05/01/24 12UTC NOAA/NWS/NCEP



6FS WED 240501/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range: Apr 15 - May 1, 2024  
 Forecasted Cumulative (inches): **0.00**