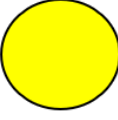
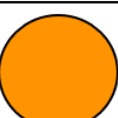
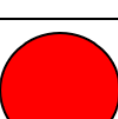
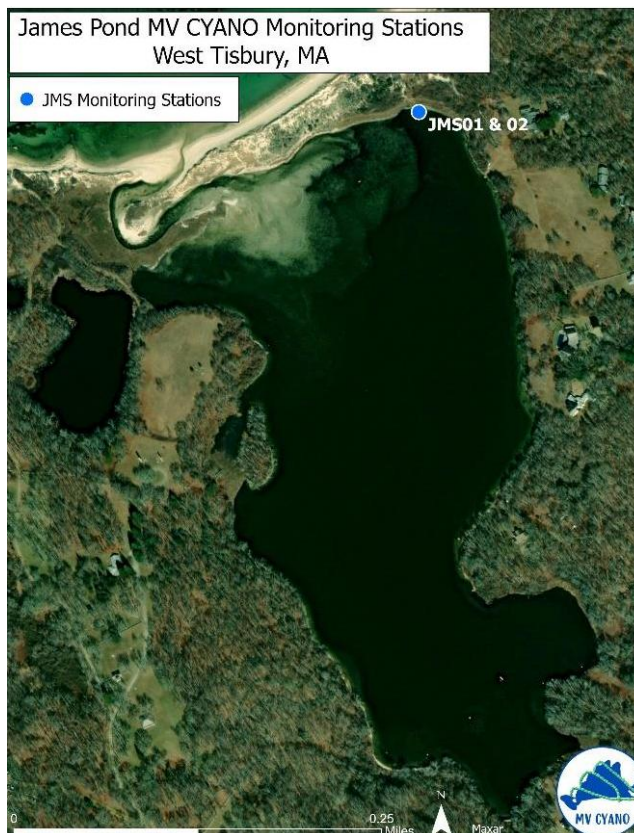


MV CYANO 2024 data for James Pond

Samples collected and analyzed by great Pond Foundation using a bbe Moldaenke Fluoroprobe II. For more information, please see www.greatpondfoundation.org/mvcyano/

GREEN (Verde)		BLOOM NOT PRESENT (Ausência da proliferação de algas)
YELLOW (Amarelo)		CYANOBACTERIA ALERT (Alerta de Cianobactérias)
ORANGE (Laranja)		CYANOBACTERIA BLOOM WATCH (Cuidado, Proliferação de Cianobactéria)
RED (Vermelho)		CYANOBACTERIA BLOOM ADVISORY (Advertência da Proliferação de Cianobactéria)



MV CYANO data are generated from a bbe Moldaenke Fluoroprobe instrument. This instrument is a fluorometer, which measures the biomass (quantity) of microscopic plants by detecting the fluorescence produced in response to different wavelengths of light. The amount of fluorescence is directly related to the concentration of plant pigments in the sample. Different types of microscopic aquatic plants, called phytoplankton, utilize different pigments, which allows the fluorometer to differentiate and quantify different phytoplankton taxa. The Fluoroprobe measures the concentration of cyanobacteria in micrograms per liter ($\mu\text{g/L}$) and estimates the number of cells per milliliter (cells/mL). The MV CYANO color designations are based on the $\mu\text{g/L}$ measurement. The total amount of plant pigments in the water sample corresponds to the amount of chlorophyll, measured in $\mu\text{g/L}$. The concentration of chlorophyll is a measurement of the phytoplankton biomass in the sample. Salinity and water temperature, measured at the time of sample collection, are factors that can influence the growth rate of cyanobacteria and other types of phytoplankton. The MV CYANO color determination (see color-chart above) corresponds to the risk level determined by the local Board of Health agencies based on the concentration of cyanobacteria and other environmental factors. The MV CYANO risk matrix is reviewed annually and updated as needed in order to stay current with health standards and scientific studies.

Station	Pond	Date	Cyanobacteria ($\mu\text{g/L}$)	Cyanobacteria (cells/mL)	Chlorophyll ($\mu\text{g/L}$)	Temp ($^{\circ}\text{C}$)	Temp ($^{\circ}\text{F}$)	Salinity (ppt)	MV CYANO
JMS01	JMS	5/28/2024	0.44	441.30	10.69			15.00	green
JMS01A	JMS	5/28/2024	10.04	10045.00	147.88			15.00	orange
JMS01	JMS	6/3/2024	0.39	388.30	2.70			16.60	green
JMS02	JMS	6/3/2024	6.65	6652.90	542.81			16.60	yellow

JMS01	JMS	6/10/2024	0.20	198.30	9.72			15.60	green
JMS01A	JMS	6/10/2024	157.93	157931.10	319.22			15.60	red
JMS01	JMS	6/17/2024	2.45	2455.00	13.51	26.66	79.99	17.80	yellow
JMS01A	JMS	6/17/2024	27.15	27154.30	643.96	26.66	79.99	17.80	red
JMS01	JMS	6/24/2024	1.90	1897.40	5.52	30.00	86.00	17.90	yellow
JMS01A	JMS	6/24/2024	67.44	67441.40	729.10	30.00	86.00	17.90	red
JMS01	JMS	7/1/2024	0.45	445.50	14.11	26.66	79.99	18.30	green
JMS01A	JMS	7/1/2024	77.67	77673.80	148.97	26.66	79.99	18.30	red
JMS02	JMS	7/1/2024	0.06	58.10	7.58	23.50	74.30	18.26	red
JMS01	JMS	7/8/2024	1.65	1654.30	30.25	28.40	83.12	17.65	yellow
JMS01A (material)	JMS	7/8/2024	440.86	440859.60	1263.97	28.40	83.12	17.65	red
JMS02	JMS	7/8/2024	2.06	2055.30	11.39	27.70	81.86	17.50	yellow
JMS02A (material)	JMS	7/8/2024	301.59	301590.50	510.34	27.70	81.86	17.50	red
JMS01	JMS	7/15/2024	4.49	4492.40	50.75	30.50	86.90	16.30	red
JMS02	JMS	7/15/2024	1.77	1770.40	47.33	29.80	85.64	16.40	red
JMS01	JMS	7/23/2024	6.87	6870.30	23.57	26.30	79.34	16.90	red
JMS01A (material)	JMS	7/23/2024	149.39	149394.80	874.10	26.30	79.34	16.90	red
JMS02	JMS	7/23/2024	4.76	4759.90	12.39	27.10	80.78	17.40	red
JMS01	JMS	7/31/2024	5.66	5657.10	74.09	28.40	83.12	16.15	red
JMS01A	JMS	7/31/2024	148.58	148573.20	598.40	28.40	83.12	16.15	red
JMS02	JMS	7/31/2024	3.86	3858.50	31.46	26.30	79.34	16.90	red
JMS02A	JMS	7/31/2024	224.34	224336.10	1386.64	26.30	79.34	16.90	red
JMS01	JMS	8/6/2024	0.61	605.90	10.78	27.10	80.78	14.95	red
JMS02	JMS	8/6/2024	0.93	928.50	9.11	26.70	80.06	17.50	red
JMS02A (material)	JMS	8/6/2024	318.96	318956.00	1535.72	27.70	81.86	17.50	red
JMS01	JMS	8/12/2024	0.00	0.00	73.15	25.60	78.08	17.17	red
JMS01B	JMS	8/12/2024	0.00	0.00	56.72	25.60	78.08	17.17	red
JMS01A (material)	JMS	8/12/2024	318.48	318476.90	920.56	25.60	78.08	17.17	red
JMS02	JMS	8/12/2024	2.89	2884.10	32.81	24.50	76.10	17.41	red
JMS02B	JMS	8/12/2024	3.70	3701.20	54.89	24.50	76.10	17.41	red
JMS02A (material)	JMS	8/12/2024	219.51	219510.70	1514.40	24.50	76.10	17.41	red
JMS01	JMS	8/19/2024	6.46	6462.90	42.64	24.40	75.92	14.25	red
JMS02	JMS	8/19/2024	2.34	2335.00	11.86	24.20	75.56	15.61	red
JMS01	JMS	8/26/2024	0.00	0.00	67.25	25.20	77.36	13.95	red
JMS02	JMS	8/26/2024	0.74	740.90	13.24	24.30	75.74	14.09	red
JMS03	JMS	8/26/2024	0.13	132.80	57.08	25.20	77.36	12.00	red
JMS03A (material)	JMS	8/26/2024	146.98	146984.00	577.52	25.20	77.36	12.00	red
JMS02	JMS	9/3/2024	1.62	1621.30	15.01	17.22	63.00	14.30	red



JMS03	JMS	9/4/2024	0.00	0.00	33.57	20.00	68.00	15.20	red
JMS02	JMS	9/9/2024	2.83	2828.60	29.07	15.56	60.01	14.90	red
JMS03	JMS	9/9/2024	0.36	363.40	19.06	15.56	60.01	15.60	red
JMS02	JMS	9/17/2024	4.80	4802.90	38.09	17.80	64.04	15.30	orange
JMS03	JMS	9/17/2024	0.00	0.00	11.08	16.70	62.06	32.00	orange
JMS02	JMS	9/23/2024	0.28	279.70	5.20	15.56	60.01	19.25	yellow
JMS03	JMS	9/23/2024	0.00	0.00	16.51	15.56	60.01	20.90	yellow
JMS01	JMS	9/30/2024	1.96	1966.70	18.67	15.46	59.83	23.40	yellow
JMS03	JMS	9/30/2024	0.00	0.00	13.85	14.44	57.99	26.30	green

