

**2007 Gulf Island Pond Water Quality Study
Dissolved Oxygen and Temperature Profiles**

Week 2 AM: 06/12/2007

River Flow (Jay, Maine): 5,343 cfs

Weather: Mostly cloudy with occasional showers, slight NW breeze

Air Temperature: 55- 65 deg. F (13-18 deg. C)

Comments: Large amounts of pollen in water and air. Pond relatively calm early AM. Diffuser not running.

AM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp.(°C)	Calibrated
YSI 550A	Primary	4:58	9.3	19.1	n
YSI 85	Comparison	4:58	9.1	18.9	n
YSI 55	Twin Bridges	4:58	9.2	18.9	n

AM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp.(°C)	Calibrated
YSI 550A	Primary	7:53	8.9	19.9	n
YSI 85	Comparison	7:53	8.7	19.7	n
YSI 55	Twin Bridges	7:53	8.9	19.7	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole	
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)
0	9.3	19.0	8.9	19.8	9.0	18.8	9.1	18.8	9.0	18.2	9.1	18.4
1			8.8	19.8	9.0	18.8	8.9	18.8	8.9	18.2	9.1	18.4
2			8.9	19.8	8.9	18.8	8.9	18.7	9.0	18.2	9.1	18.4
3			8.9	19.8	9.0	18.8	8.8	18.6	8.9	18.2	9.1	18.3
4			8.9	19.8	8.9	18.8	8.9	18.6	8.9	18.2	9.0	18.3
5			8.9	19.8	8.8	18.5	8.8	18.6	8.9	18.1	9.0	18.3
6			8.9	19.7	8.6	18.3	8.9	18.6	8.8	18.0	9.0	18.3
7			8.7	19.7	8.1	17.8	8.8	18.5	8.9	17.8	8.9	18.1
8			8.7	19.7	7.7	16.4	8.4	16.9	9.0	17.5	8.8	18.0
9			8.8	19.7			8.3	16.6	8.9	17.3	8.8	17.4
10			8.5	19.6			7.9	16.5	8.8	16.8	8.8	17.2
11			8.3	19.6			7.9	16.4	8.7	16.7	8.7	17.0
12			8.1	19.3			8.1	16.3	8.7	16.6	8.7	17.0
13			8.3	19.6			7.5	16.3	8.7	16.4	8.7	16.7
14							7.4	16.2	8.7	16.3	8.6	16.7
15									8.6	16.2	8.6	16.5
16									8.6	16.1	8.6	16.4
17									8.0	16.1	8.5	16.3
18									7.3	15.8	8.2	16.2
19											8.2	16.2
20											8.2	16.2
21											8.0	16.1
22											7.7	16.0
23											6.7	15.4
24											0.0	15.1
25			8.7	19.7	8.7	18.3	8.4	17.6	8.7	17.2	8.2	17.1

**2007 Gulf Island Pond Water Quality Study
Dissolved Oxygen and Temperature Profiles**

Week 2 PM: 06/12/2007

River Flow (Jay, Maine): 5343 cfs

Weather: Cloudy, windy early PM; sunny, slight NW breeze mid PM

Air Temperature: 65-70 deg. F (18-21 deg. C)

Comments: Large amounts of pollen in air and water. Pond rough early PM, relatively calm mid-PM. Diffuser not running.

PM Meter Verification: Before Sampling					
Model	Use	Time	DO(mg/L)	Temp.(°C)	Calibrated
YSI 550A	Primary	10:45	8.9	20.1	n
YSI 85	Comparison	10:45	8.9	20.1	n
YSI 55	Twin Bridges	10:45	8.6	19.9	n

PM Meter Verification: After Sampling					
Model	Use	Time	DO(mg/L)	Temp.(°C)	Calibrated
YSI 550A	Primary	14:35	8.8	20.7	n
YSI 85	Comparison	14:35	8.6	20.8	n

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup- Turner Bridge	
	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)	DO (mg/L)	Temp. (°C)
0	8.9	19.1	8.9	20.4	9.1	19.7	9.0	19.7	9.0	18.7	9.6	19.1	8.9	20.4
1			8.9	20.2	8.9	19.4	9.0	19.1	9.1	18.6	9.2	19.1	9.0	20.1
2			8.8	20.1	8.8	19.0	9.0	18.9	8.9	18.5	9.2	18.9	8.8	20.1
3			8.8	20.0	8.7	18.9	8.9	18.9	9.0	18.5	9.1	18.7	8.9	20.0
4			8.9	20.0	8.8	18.8	8.9	18.7	8.7	18.3	9.0	18.6	8.8	20.0
5			8.8	20.0	8.7	18.8	8.8	18.7	9.0	18.2	9.0	18.6	8.9	20.0
6			8.8	20.0	8.5	18.4	8.7	18.6	8.8	18.2	8.9	18.4	8.8	20.0
7			8.7	20.0	8.5	17.0	8.6	17.9	8.9	18.0	8.7	18.3	8.8	20.0
8			8.8	20.0	7.3	16.4	8.2	17.5	8.9	17.9	8.8	18.1	8.7	20.0
9			7.2	20.0			8.3	16.9	9.0	17.8	8.9	18.0	8.3	19.9
10			7.3	20.0			8.4	16.5	9.0	17.5	8.6	17.3	7.1	19.9
11			7.1	20.0			8.4	16.3	8.9	16.8	8.8	17.1	7.0	19.9
12			7.1	20.0			8.4	16.2	8.5	16.5	8.9	16.9	7.0	19.9
13			7.0	19.9			7.8	16.2	8.6	16.4	8.8	16.8	7.2	19.9
14									8.6	16.3	8.7	16.6	7.1	19.9
15									8.3	16.2	8.6	16.5		
16									8.3	16.1	8.5	16.4		
17									8.1	16.0	8.6	16.4		
18									7.1	15.8	8.6	16.3		
19											8.3	16.2		
20											8.2	16.1		
21											8.1	16.1		
22											7.8	16.0		
23											6.5	15.4		
24											5.2	15.1		
25			8.1	20.0	8.6	18.5	8.6	17.9	8.7	17.4	8.5	17.2		