

Verso Paper/NewPage Corporation
2006 Gulf Island Pond Water Quality Study
Dissolved Oxygen and Temperature Profiles

Week 5 AM: 07/05/2006

River Flow (Jay, Maine): 5.545 cfs

Weather: Extremely foggy early AM, light mist, light breeze; sunny, hazy, breezy late AM

Air Temperature: 70 deg. F (21 deg. C)

Comments: Pond relatively calm early AM, somewhat choppy at TB and GIP 4/Deep Hole. Slight green tint in top meter of water column at Deep Hole, GIP 4, and Lower Narrows

AM Meter Verification: Before Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	5:10	7.9	21.4	Y
YSI 55	Comparison	5:10	8.2	21.4	Y

AM Meter Verification: After Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	9:05	8.2	22.7	Y
YSI 55	Comparison	9:05	8.1	22.6	Y

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	21.5	7.9	7.4	22.7	6.9	23.0	6.9	23.0	6.9	23.0	7.4	23.0
1			7.2	22.7	7.1	22.6	6.9	22.8	6.7	23.0	7.5	23.0
2			7.3	22.6	7.1	22.5	7.1	22.7	7.1	23.0	7.2	23.0
3			7.3	22.6	7.2	22.3	7.2	22.7	6.9	23.0	7.3	23.0
4			7.3	22.5	6.9	22.3	7.2	22.7	7.1	22.9	7.3	22.4
5			7.3	22.5	6.9	22.2	7.3	22.6	6.8	22.7	6.9	22.4
6			7.2	22.5	6.9	22.2	7.3	22.6	6.7	22.3	6.5	22.1
7			7.2	22.5	6.9	22.2	7.2	22.6	6.5	22.1	6.3	21.9
8			7.2	22.5	6.6	22.2	7.0	22.5	6.4	22.0	6.3	21.9
9			7.1	22.5	6.4	22.2	6.8	22.4	5.9	21.8	6.1	21.7
10			7.1	22.5	3.6	22.1	6.4	22.3	5.7	21.7	6.1	21.7
11			6.6	22.5			6.3	22.3	5.4	21.7	5.0	21.6
12							6.1	22.0	5.3	21.7	5.9	21.6
13							6.2	22.0	5.3	21.6	5.8	21.6
14							6.1	22.0	5.3	21.6	5.6	21.6
15							6.1	22.0	5.1	21.5	5.6	21.5
16							6.0	21.8	4.9	21.4	5.5	21.5
17							5.9	21.8	4.4	21.0	5.5	21.4
18											5.5	21.4
19											5.4	21.2
20											5.2	21.0
21											5.2	20.8
22											4.9	20.8
23											4.3	20.5
24											4.1	20.4
25												

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2006 Gulf Island Pond Water Quality Study
Dissolved Oxygen and Temperature Profiles

Week 5 PM: 07/05/2006

River Flow (Jay, Maine): 5.545 cfs

Weather: Cloudy

Air Temperature: 70 deg. F (21 deg. C)

Comments: Pond very calm. Slight green tint in top meter of water column at Deep Hole, GIP 4, and Lower Narrows

PM Meter Verification: Before Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	11:00	8.2	23.8	Y
YSI 55	Comparison	11:00	8.2	23.6	Y

PM Meter Verification: After Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	17:19	7.5	18.1	Y
YSI 55	Comparison	17:19	7.6	18.2	Y

Depth (m)	Twin Bridges		Turner Bridge		Dup-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)	DO (mg/L)	Temp. (°C)
0	8.3	22.5	7.5	22.9	7.6	23.0	8.3	24.9	8.1	23.8	8.2	24.6	8.0	25.1
1			7.5	22.7	7.8	22.9	7.9	24.8	7.8	23.7	7.9	24.6	7.4	24.3
2			7.7	22.6	7.7	22.9	7.6	23.2	7.4	23.0	7.7	23.4	7.2	23.2
3			7.6	22.6	7.6	22.7	7.4	22.8	7.2	22.8	7.6	22.9	7.4	23.0
4			7.7	22.6	7.6	22.7	6.6	22.2	7.3	22.7	7.6	22.8	6.8	22.8
5			7.8	22.5	7.7	22.6	7.0	22.1	7.4	22.6	7.5	22.7	6.7	22.6
6			7.7	22.5	7.7	22.6	6.6	22.0	7.5	22.6	7.4	22.6	6.6	22.5
7			7.8	22.5	7.8	22.6	7.1	22.0	7.5	22.6	7.1	22.3	6.8	22.2
8			7.6	22.5	7.7	22.6	3.3	21.9	7.4	22.4	6.9	22.2	6.8	22.2
9			7.7	22.5	7.8	22.5	2.0	21.9	7.4	22.3	7.1	22.1	6.6	22.0
10			7.6	22.5	7.8	22.5	1.8	21.9	7.1	22.2	6.5	21.9	6.1	21.9
11			6.8	22.5	6.9	22.5			6.8	22.0	6.8	21.7	6.2	21.8
12									6.5	22.0	6.5	21.7	6.0	21.7
13									6.1	21.9	6.6	21.6	5.9	21.7
14									5.8	21.8	6.4	21.6	6.0	21.6
15									5.6	21.8	6.2	21.5	6.8	21.6
16									4.9	21.6	6.4	21.4	6.7	21.6
17									1.0	21.4			6.1	21.5
18													6.6	21.5
19													6.0	21.3
20													5.8	21.0
21													5.1	20.9
22													5.5	20.8
23													4.5	20.7
24													4.0	20.7
25													3.4	20.6