

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

Week 3 AM: 06/20/2006
 River Flow (Jay, Maine): 5,712 cfs
 Weather: Sunny, slight fog
 Air Temperature: 70 deg. F (21 deg. C)
 Comments: Pond calm. No sign of algae at any location.

AM Meter Verification: (Before Sampling)

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	5:15	8.3	21.3	Y
YSI 55	Comparison	5:15	8.1	21.3	Y

AM Meter Verification (After Sampling)

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	11:50	8.5	24.2	Y
YSI 55	Comparison	11:50	8.3	24.2	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	8.1	21.3	7.6	22.5	7.1	21.7	7.9	22.4	7.9	22.3	8.1	22.8
1			7.6	22.5	7.4	21.7	8.0	22.4	8.2	22.5	8.2	22.5
2			7.8	22.5	7.5	21.7	8.0	22.2	8.0	22.4	8.2	22.2
3			7.8	22.5	7.4	21.7	8.1	22.2	8.0	22.0	8.1	21.8
4			7.8	22.5	7.5	21.7	7.9	21.8	7.8	21.8	7.7	21.3
5			7.8	22.5	7.4	21.7	7.6	21.2	7.6	21.4	7.6	20.8
6			7.8	22.5	7.5	21.7	7.3	20.6	7.6	20.7	7.6	20.8
7			7.8	22.5	7.3	21.5	7.1	20.3	7.4	20.3	7.6	20.7
8			7.8	22.5	5.5	20.5	6.7	20.0	7.3	20.0	7.6	20.6
9			7.8	22.5	5.2	20.3	6.6	19.9	7.2	20.0	7.7	20.3
10			7.8	22.4	4.8	19.9	6.6	19.7	7.1	19.9	7.5	20.0
11			7.5	22.4			6.6	19.4	7.0	19.8	7.4	20.0
12							6.5	18.8	6.8	19.6	7.4	19.9
13							6.3	18.7	6.9	19.2	7.4	19.8
14							6.3	18.6	6.9	18.8	7.5	19.5
15							5.7	18.5	6.5	18.7	7.4	19.4
16							5.6	18.3	6.0	18.0	7.4	19.1
17							4.8	18.2	5.2	18.0	7.4	18.7
18											7.2	18.0
19											6.9	17.6
20											6.4	17.3
21											6.1	17.3
22											5.8	17.1
23											5.4	17.1
24											5.1	16.7
25											4.7	16.7

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

Week 3 PM: 06/20/2006
 River Flow (Jay, Maine): 5,712 cfs
 Weather: Sunny, breezy
 Air Temperature: 80 deg. F (27 deg. C)
 Comments: Pond relatively calm. No sign of algae at any location.

PM Meter Verification: (Before Sampling)

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	12:15	8.4	25.3	Y
YSI 55	Comparison	12:15	8.2	25.3	Y

PM Meter Verification: (After Sampling)

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	16:00	8.0	25.1	Y
YSI 55	Comparison	16:00	8.1	25.0	Y

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Dup-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	8.4	24.5	8.1	23.7	8.4	24.4	8.8	23.8	9.3	24.4	9.2	24.2	9.2	24.2
1			8.0	23.5	8.0	24.1	8.6	23.8	9.0	24.3	9.1	24.0	9.1	23.8
2			8.1	23.4	7.7	23.7	8.5	23.6	8.8	23.0	8.5	22.7	9.3	23.0
3			8.0	23.2	8.1	22.7	7.7	22.2	8.0	22.1	8.1	22.3	8.7	22.5
4			8.0	23.1	8.1	22.4	7.8	21.9	8.0	21.9	8.1	21.8	8.5	22.1
5			8.0	23.0	7.9	22.1	7.8	21.8	8.0	21.6	8.1	21.7	8.0	21.6
6			8.0	23.0	7.9	22.0	7.8	21.6	7.8	21.4	7.8	21.3	8.0	21.2
7			7.9	22.9	7.2	21.9	7.7	21.6	7.8	21.0	8.0	20.8	8.0	21.0
8			7.9	22.9	7.1	21.2	7.4	20.9	8.1	20.8	7.9	20.6	8.0	20.7
9			7.9	22.9	6.3	21.1	7.3	20.4	8.0	20.5	7.8	20.1	7.8	20.3
10			7.9	22.9	5.9	20.8	7.1	20.1	7.9	20.0	8.0	19.9	7.6	20.1
11			7.9	22.9			7.3	20.0	8.0	19.8	8.0	19.8	7.7	20.0
12							7.4	19.8	7.9	19.7	7.9	19.6	7.7	19.9
13							7.5	19.6	8.0	19.4	8.0	19.2	7.7	19.7
14							7.5	19.6	7.8	19.1	7.9	18.9	7.7	19.7
15							7.5	19.1	7.8	18.8	7.9	18.7	7.6	19.6
16							7.4	19.0	8.0	18.7	8.0	18.6	7.8	19.2
17							6.5	18.6	4.2	18.4	4.4	18.4	7.8	18.9
18													7.3	18.2
19													7.0	18.0
20													7.1	17.8
21													6.5	17.3
22													6.3	17.2
23													6.0	16.7
24													5.7	16.5
25													3.2	16.0

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

Week 4 AM: 06/27/2006

River Flow (Jay, Maine): 10,246 cfs

Weather: Cloudy, breezy

Air Temperature: 60 deg. F (16 deg. C)

Comments: Pond somewhat choppy. Current swift due to recent heavy rains. No sign of algae at any location.

AM Meter Verification: Before Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	5:00	8.1	21.1	Y
YSI 55	Comparison	5:00	8.3	21.2	Y

AM Meter Verification: After Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	7:55	8.1	21.3	Y
YSI 55	Comparison	7:55	8.3	21.3	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	8.1	21.1	7.7	21.4	7.6	21.7	7.2	22.5	7.1	22.3	6.9	22.3
1			7.8	21.4	7.5	21.7	7.2	22.5	7.1	22.3	7.0	22.4
2			7.7	21.4	7.4	21.6	7.4	22.4	7.3	22.3	7.0	22.4
3			7.7	21.4	7.5	21.6	7.2	22.3	7.1	22.3	7.1	22.3
4			7.8	21.4	7.5	21.6	7.2	22.3	6.8	22.3	7.1	22.3
5			7.8	21.4	7.6	21.6	7.4	22.3	7.1	22.3	7.0	22.2
6			7.7	21.3	7.5	21.5	7.3	22.2	7.0	22.2	6.4	22.1
7			7.7	21.4	7.5	21.5	7.4	22.2	6.9	22.0	6.3	21.8
8			7.7	21.3	6.3	21.5	7.4	22.1	6.8	21.8	6.6	21.8
9			7.7	21.3	5.8	21.5	7.4	22.1	6.9	21.8	6.6	21.8
10			7.7	21.3	5.6	21.5	7.4	22.0	6.6	21.7	6.4	21.8
11			7.7	21.3			7.4	21.9	6.6	21.7	6.5	21.7
12							7.3	21.9	6.6	21.6	6.5	21.7
13							7.2	21.9	6.4	21.6	6.6	21.7
14							7.2	21.8	6.5	21.6	6.5	21.6
15							7.2	21.8	6.5	21.6	6.2	21.6
16							7.1	21.8	6.2	21.6	6.2	21.6
17							7.1	21.8	4.5	21.3	6.0	21.5
18											6.1	21.5
19											5.7	21.5
20											5.7	21.3
21											3.7	17.0
22											3.4	16.8
23											2.6	16.2
24											2.5	16.2
25												

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Week 4 PM: 06/27/2006

River Flow (Jay, Maine): 10,246 cfs

Weather: Sunny, breezy

Air Temperature: 80 deg. F (27 deg. C)

Comments: Pond somewhat choppy. Current swift due to recent heavy rains. No sign of algae at any location.

PM Meter Verification: Before Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	12:10	8.1	22.5	Y
YSI 55	Comparison	12:10	8.3	22.4	Y

PM Meter Verification: After Sampling

Model	Use	Time	DO(mg/L)	Temp. (°C)	Calibrated
YSI 85	Primary	17:00	6.1	22.9	Y
YSI 55	Comparison	17:00	6.3	22.9	Y

Depth (m)	Twin Bridges		Turner Bridge		Upper Narrows		Lower Narrows		GIP 4		Deep Hole		Dup-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	8.5	21.8	8.0	22.3	7.6	23.0	7.6	23.1	7.4	23.1	7.3	23.2	7.2	23.2
1			8.0	22.2	7.6	22.5	7.6	23.0	7.4	23.0	7.2	23.1	7.2	23.1
2			8.1	22.1	7.7	22.2	7.5	22.9	7.3	22.8	7.3	22.8	7.3	22.9
3			8.0	22.0	7.7	22.1	7.4	22.7	7.4	22.8	7.2	22.5	6.9	22.6
4			8.1	21.9	7.8	22.0	7.5	22.6	7.4	22.7	7.0	22.4	7.1	22.4
5			8.1	21.9	7.8	21.9	7.4	22.6	7.4	22.8	7.1	22.3	7.0	22.3
6			8.0	21.9	7.6	21.7	7.5	22.6	7.4	22.4	7.2	22.3	6.9	22.2
7			8.1	21.9	7.4	21.6	7.4	22.4	7.3	22.3	7.0	22.1	6.9	22.1
8			8.1	21.9	7.3	21.5	7.4	21.9	7.3	22.0	6.9	22.1	6.8	22.0
9			8.0	21.9	0.1	21.3	7.3	22.2	7.3	22.0	6.8	22.0	6.8	22.0
10			8.0	21.9	0.0	21.3	5.7	21.8	7.3	22.0	6.9	21.9	6.8	22.0
11			8.1	21.9			0.2	21.8	7.4	22.0	6.7	21.8	6.8	21.9
12							0.1	21.8	7.2	21.9	6.8	21.8	6.8	21.9
13							0.1	21.7	7.0	21.8	6.9	21.8	6.8	21.8
14							0.0	21.7	6.9	21.8	6.7	21.7	6.7	21.8
15									6.7	21.8	6.6	21.7	6.8	21.8
16									6.6	21.7	6.7	21.7	6.7	21.7
17									6.7	21.7	6.6	21.7	6.6	21.7
18											6.5	21.7	6.5	21.6
19											6.4	21.6	6.6	21.6
20											6.5	21.5	6.0	21.0
21											3.9	18.0	3.4	17.0
22											3.4	16.6	3.1	16.6
23											2.5	16.3	2.3	16.2
24											0.1	16.0	0.0	16.1
25											0.1	16.0	0.0	16.0