

BEECH HILL POND

MIDAS #: 4352

Sampling station: 1

Data period: through 2018



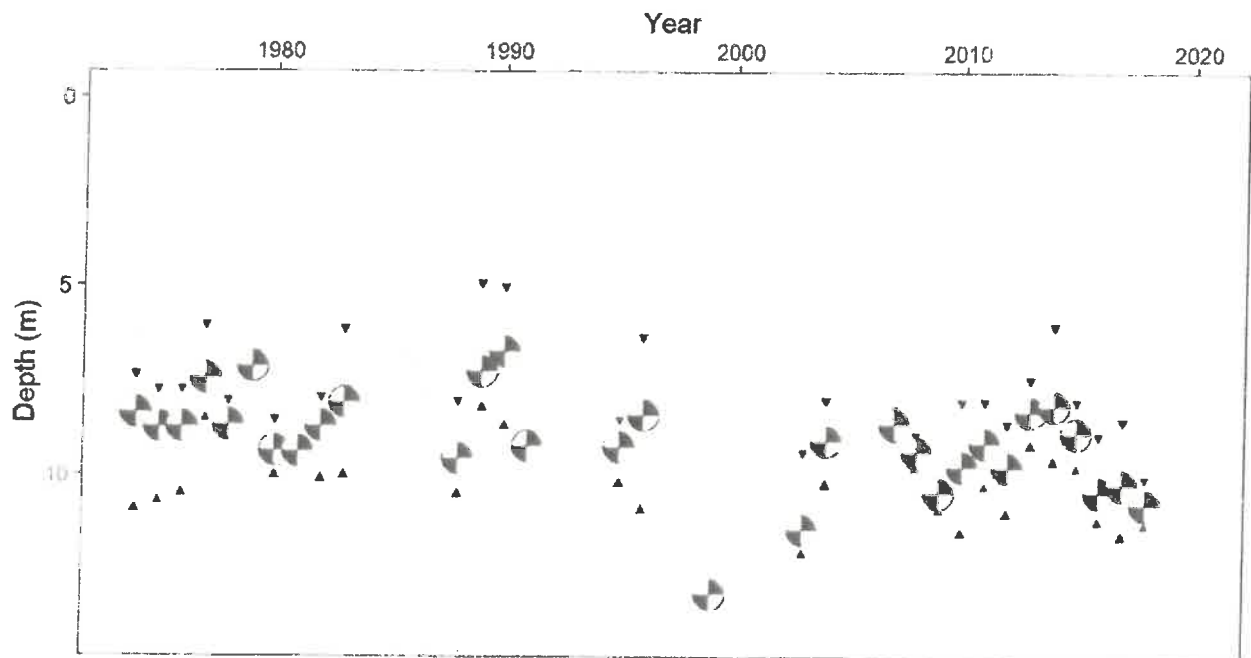
Town	County	Delorme Map #	True Basin	Flushing Rate	Elevation
OTIS	HANCOCK	24	1	0.23 flushes/yr	199 ft

Maximum Depth	Average Depth	Surface Area	Lake Volume	Drainage Area
32 m (104 ft)	12 m (38 ft)	547 ha (1,351 ac)	64,100,000 m ³ (51,967 ac-ft)	20 km ² (7.8 mi ²)

Secchi Disk Transparency Graphs

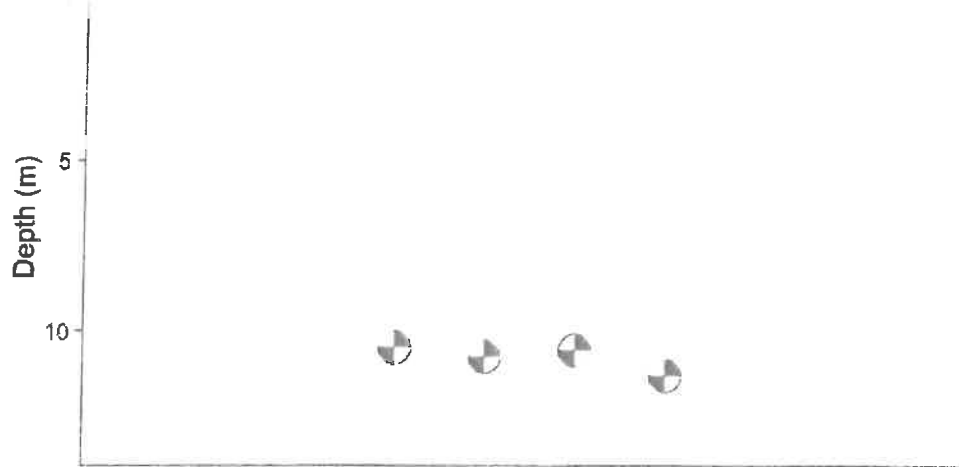
Graph Legend: Secchi symbols = average Secchi Disk Transparency Values; tick marks = maximum and minimum values for each year.

Yearly Average Secchi Disk Transparency



2018 Average Monthly Secchi Disk Transparency





Water Chemistry and Trophic State Parameters

Table Legend:

Color: Color (SPU), **Alk:** Alkalinity (mg/l CaCO₃), **SpCon:** Specific Conductivity (μS/cm), **pH:** pH (standard units)

TP = Total Phosphorus (μg/L) – **EC:** Epilimnion Core, **SG:** Surface Grab, **BG:** Bottom Grab, **PG:** Profile Grab

SDT = Secchi Disk Transparency (m) – **Min:** minimum value, **Avg:** average value, **Max:** maximum value, **n:** number of months with Secchi readings per year, **b:** number of times Secchi disk was observed touching the bottom of the lake per year

Chl = Chlorophyll-a (μg/L) – **Min:** minimum value, **Avg:** average value, **Max:** maximum value

Year	Color	Alk	SpCon	pH	TP- EC	TP- SG	TP- BG	TP- PG	SDT- Min	SDT- Avg	SDT- Max	SDT-n	SDT-b	Chl- Min	Chl- Avg	Chl- Max
1974						4.0			7.3	8.3	10.9	6		0.7	1.4	1.8
1975						5.1			7.7	8.7	10.7	7		0.8	1.5	2.2
1976		5.2	27	6.0					7.7	8.7	10.5	9		0.9	1.6	2.1
1977							2		6.0	7.4	8.5	4				
1978									8.0	8.7	9.0	3				
1979									7.0	7.1	7.2	1				
1980		4.0	24	6.0			9		8.5	9.3	10.0	4		1.2	1.2	1.2
1981									9.1	9.3	9.5	5				
1982									7.9	8.7	10.1	6				
1983		5.0		6.0			6		6.1	8.1	10.0	5		1.1	1.1	1.1
1988		5.0	24	4.0			10		8.0	9.5	10.5	2				
1989									4.9	7.2	8.2	6				

Year	Color	Alk	SpCon	pH	TP- EC	TP- SG	TP- BG	TP- PG	SDT- Min	SDT- Avg	SDT- Max	SDT-n	SDT-b	Chl- Min	Chl- Avg	Chl- Max
1990									5.0	6.7	8.7	4				
1991		6.0	24	6.8	4.0				9.2	9.2	9.2	1				
1995		9.0			3.0				8.5	9.2	10.2	3				
1996		7.0	30		4.5		5		6.3	8.4	10.9	5		1.6	1.8	2.0
1999		5.5	31		5.0				13.1	13.1	13.1	1		1.7	1.7	1.7
2003									9.4	11.4	12.1	3				
2004	4	8.0	34	6.9	4.0				8.0	9.1	10.2	3		1.8	1.8	1.8
2007									8.2	8.6	9.0	3				
2008									8.9	9.3	9.8	2				
2009									10.2	10.4	10.9	2				
2010									8.0	9.7	11.5	5				
2011	7	5.6	33	7.0		3.0			8.0	9.1	10.3	5				
2012									8.6	9.8	11.0	5				
2013									7.4	8.3	9.2	4				
2014									6.0	8.1	9.6	4				
2015									8.0	8.8	9.8	2				
2016	8	8.0	34	7.1	6.0				8.9	10.4	11.2	4		2.2	2.2	2.2
2017									8.5	10.2	11.6	6				
2018									10.0	10.7	11.3	6				

Lake Chemistry and Trophic Summary Data - Overall Summary Values:

Avg Color	Avg Alk	Avg SpCon	pH	Avg TP- EC	Avg TP- SG	Avg TP- BG	Avg TP- PG	SDT- Min	SDT- Avg	SDT- Max	SDT-n	Chl- Min	Chl- Avg	Chl- Max
6.3	6.2	29	7	4.9	4	6.4		4.9	9.1	13	4.1	0.7	1.6	2.2

Temperature and Dissolved Oxygen Profiles

Late summer only; limited to eight most recent profiles

Units: Temperature (TEMP) = °C; Dissolved Oxygen (DO) = mg/L

2015-08-13 2015-08-27 2016-09-01 2017-08-09 2017-09-09 2018-08-13 2018-08-25 2018-09-09

29

6.8

8.1

8.4

6.5

30

7.3

7.3

7.3

6.6

7.4

6.5

7.3

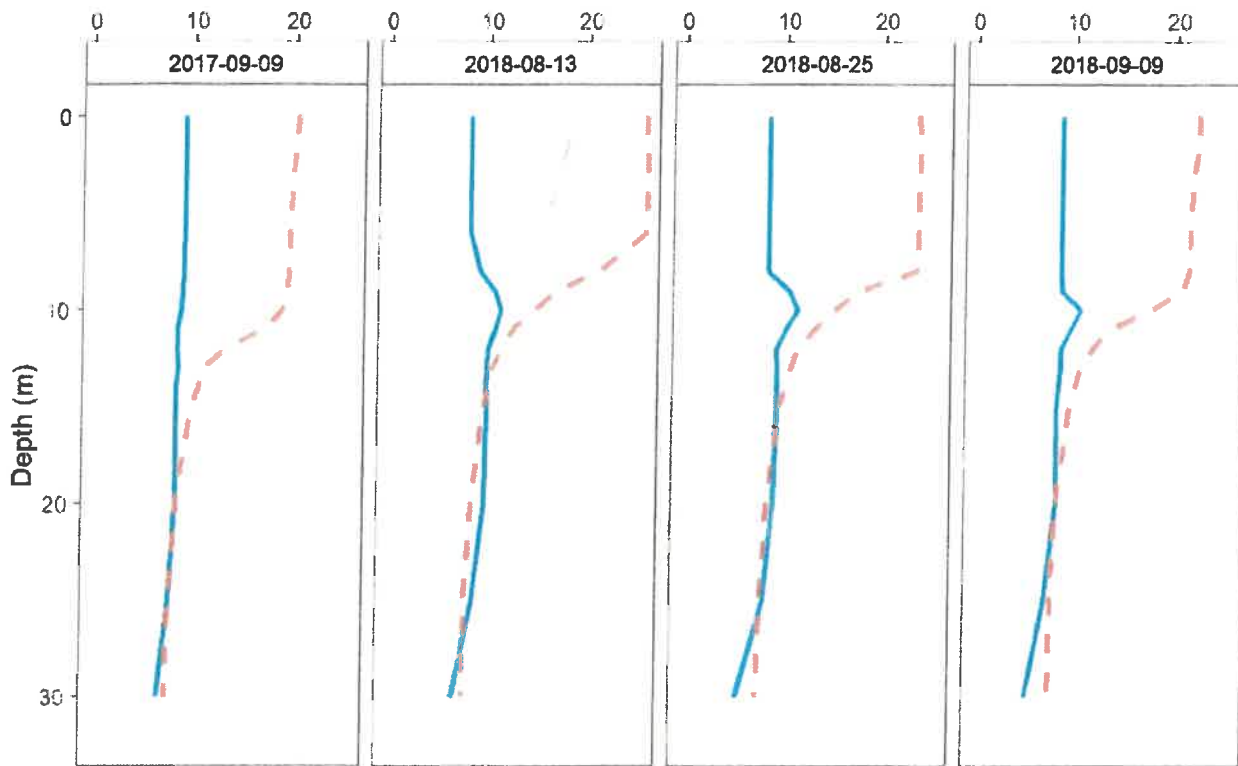
5.3

7.4

5.1

Most recent temperature and dissolved oxygen profile plots

Temperature (°C), Dissolved Oxygen (mg/L)



Legend — Dissolved Oxygen - - Temperature