



Volunteer Lake Assessment Program Individual Lake Reports

FLINTS POND, HOLLIS, NH

MORPHOMETRIC DATA

Watershed Area (Ac.):	692	Max. Depth (m):	2.7	Flushing Rate (yr ⁻¹):	4.5
Surface Area (Ac.):	48	Mean Depth (m):	1.5	P Retention Coef:	0.6
Shore Length (m):	1,800	Volume (m ³):	294,500	Elevation (ft):	197

TROPIC CLASSIFICATION

Year	Trophic class

KNOWN EXOTIC SPECIES

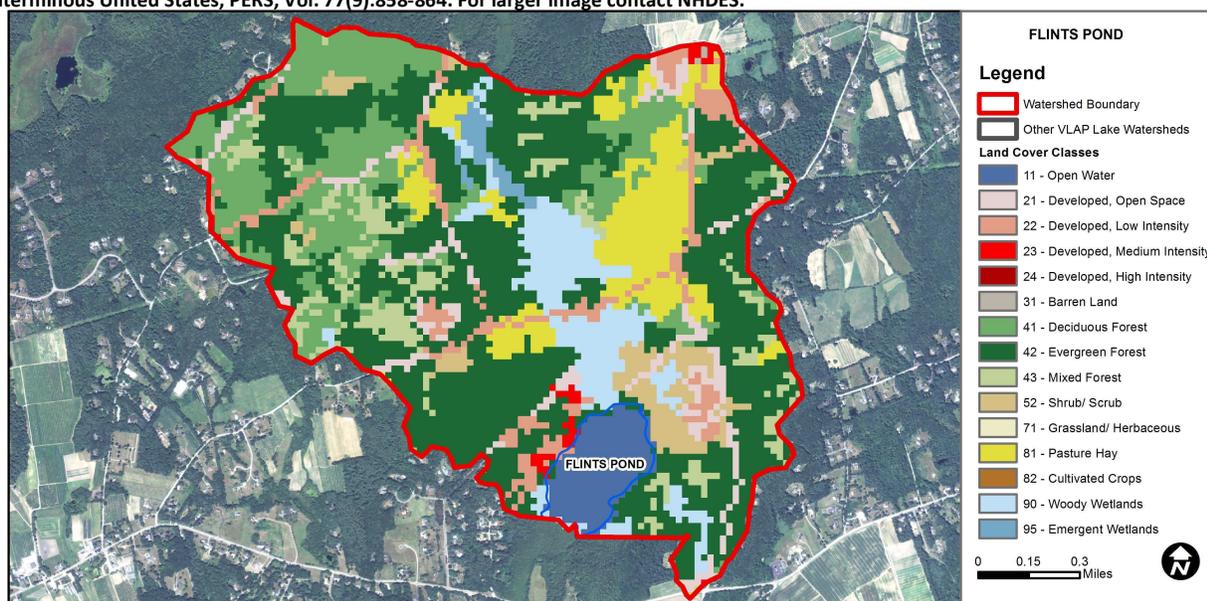
Variable Milfoil

The Waterbody Report Card tables are generated from the 2012 305(b) report on the status of N.H. waters, and are based on data collected from 2001-2011.

Designated Use	Parameter	Category	Comments
Aquatic Life	Phosphorus (Total)	Good	>/=5 samples and median is < threshold but > 1/2 threshold value.
	pH	Good	At least 10 samples with 1 sample but < 10% of samples exceeding criteria.
	D.O. (mg/L)	Slightly Bad	>10% of samples exceed criteria by a small margin (minimum of 2 exceedances).
	D.O. (% sat)	Slightly Bad	>10% of samples exceed criteria by a small margin (minimum of 2 exceedances).
	Chlorophyll-a	Good	>/=5 samples and median is < threshold but > 1/2 threshold value.
Primary Contact Recreation	E. coli	Very Good	All bacteria samples <75% of geometric mean criteria, but not enough to calculate geometric mean. Or, all bacteria samples are < single sample criteria and calculated Geometric means are less than geometric mean criteria.
	Chlorophyll-a	Slightly Bad	>10% of samples exceed criteria by a small margin (minimum of 2 exceedances).

WATERSHED LAND USE SUMMARY

Fry, J., Xian, G., Jin, S., Dewitz, J., Homer, C., Yang, L., Barnes, C., Herold, N., and Wickham, J., 2011. Completion of the 2006 National Land Cover Database for the Conterminous United States, PERS, Vol. 77(9):858-864. For larger image contact NHDES.



Land Cover Category	% Cover	Land Cover Category	% Cover	Land Cover Category	% Cover
Open Water	4.06	Barren Land	0.05	Grassland/Herbaceous	0
Developed-Open Space	4.82	Deciduous Forest	15.7	Pasture Hay	9.32
Developed-Low Intensity	5.75	Evergreen Forest	40.17	Cultivated Crops	0
Developed-Medium Intensity	0.73	Mixed Forest	6.64	Woody Wetlands	7.84
Developed-High Intensity	0	Shrub-Scrub	3.78	Emergent Wetlands	1.13



VOLUNTEER LAKE ASSESSMENT PROGRAM INDIVIDUAL LAKE REPORTS

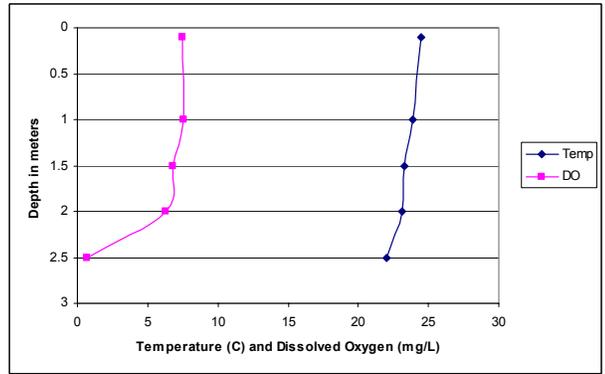
FLINTS POND, HOLLIS, NH

2012 DATA SUMMARY

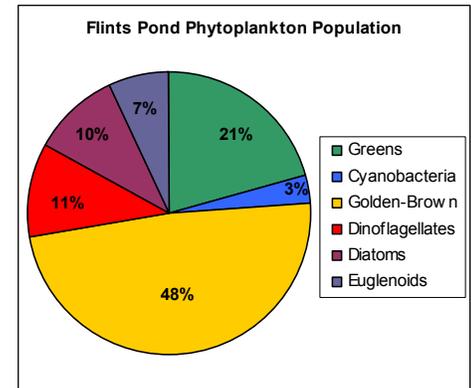
OBSERVATIONS AND RECOMMENDATIONS (Refer to Table 1 and Historical Deep Spot Data Graphic)

- 🔥 **CHLOROPHYLL-A:** Chlorophyll levels were average for most NH lakes and decreased greatly from 2011.
- 🔥 **CONDUCTIVITY/CHLORIDE:** Conductivity and chloride were slightly elevated.
- 🔥 **TOTAL PHOSPHORUS:** Phosphorus levels were above average for most NH lakes but decreased greatly from 2011.
- 🔥 **TRANSPARENCY:** Transparency was good for a shallow lake and improved from 2011.
- 🔥 **TURBIDITY:** Turbidity levels were average for Flints Pond.
- 🔥 **pH:** pH was sufficient to support aquatic life.
- 🔥 **RECOMMENDED ACTIONS:** Continue monitoring program to better assess water quality trends. Implement watershed management activities to reduce phosphorus loading. Continue exotic plant management activities.

Dissolved Oxygen & Temperature Profile



Station Name	Table 1. 2012 Average Water Quality Data for FLINTS POND								
	Alk.	Chlor-a	Chloride	Cond.	Total P	Trans.		Turb.	pH
	mg/l	ug/l	mg/l	uS/cm	ug/l	m		ntu	
Epilimnion	26.5	4.16	12	138.0	17	NVS	VS	1.73	7.25



NH Median Values: Median values for specific parameters generated from historic lake monitoring data.

Alkalinity: 4.9 mg/L

Chlorophyll-a: 4.58 mg/m³

Conductivity: 40.0 uS/cm

Chloride: 4 mg/L

Total Phosphorus: 12 ug/L

Transparency: 3.2 m

pH: 6.6

NH Water Quality Standards: Numeric criteria for specific parameters. Results exceeding criteria are considered a water quality violation.

Chloride: < 230 mg/L (chronic)

E. coli: > 88 cts/100 mL – public beach

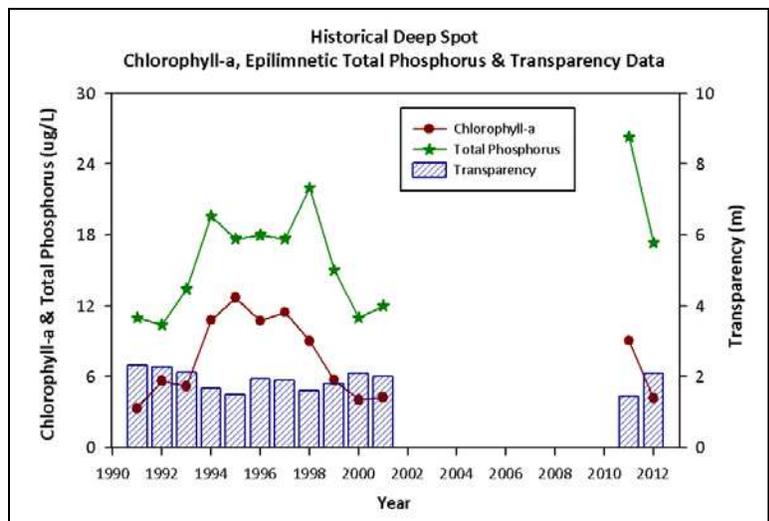
E. coli: > 406 cts/100 mL – surface waters

Turbidity: > 10 NTU above natural level

pH: 6.5-8.0 (unless naturally occurring)

HISTORICAL WATER QUALITY TREND ANALYSIS

Parameter	Trend	Explanation
Chlorophyll-a	N/A	More data necessary to establish trend.
Transparency	N/A	More data necessary to establish trend.
Phosphorus (epilimnion)	N/A	More data necessary to establish trend.



This report was generated by the NH DES Volunteer Lake Assessment Program (VLAP). For more information contact:
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