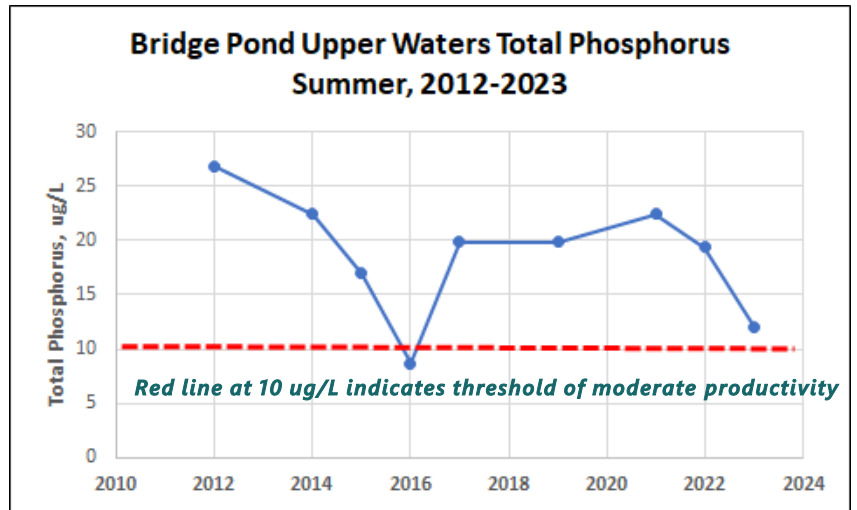


Bridge Pond Eastham, MA

Updated August 2024



Setting

Pond Size: 6.7 acres; Maximum Depth: 20 ft.

Watershed Size: 7.9 acres

Public Access: Herring Brook Road, Wiley Park.

Uses: Wildlife viewing; herring run; fishing.

Landuse: 9% residential within 300 ft. of shoreline. No boat launches or developed beaches.

Fish community: warm water

Data: PALS, Provincetown CCS

Recommended Actions

Watershed Best Management Practices

- Maintain vegetated shoreline
- Discourage large flocks of birds
- Control road runoff

Current Condition: Stable

Bridge Pond Water Quality Summary			
Water Column	Parameter	Result ¹	"Healthy" Ponds Thresholds ²
Upper Waters	Total Phosphorus	20.5 µg/L	≤10 µg/L
	Chlorophyll-a	13.0 µg/L	≤1.7 µg/L
	Secchi Disk Transparency	2.78 m	Not calculated
Lower Waters	Total Phosphorus	41.5 µg/L	--
	Dissolved Oxygen	4.19 mg/L	--

¹Annual average results (PALS) - total phosphorus, chlorophyll-a, Secchi disk transparency, and dissolved oxygen, 2012-2023.

²Cape Cod Commission 2003, Table 5.

Depot Pond Eastham, MA

Updated August 2024



Setting

Pond Size: 27.9 acres; Maximum Depth: 33 ft

Watershed Size: 64.9 acres

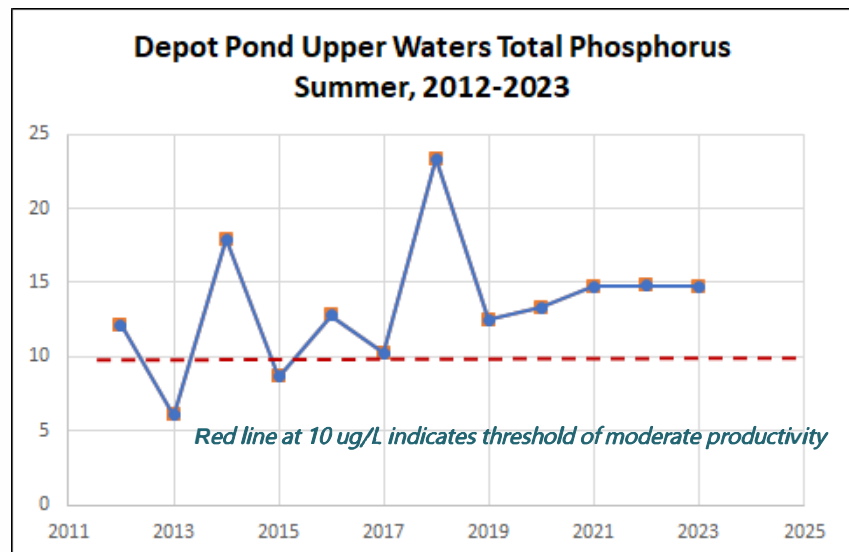
Land use: 56% residential within 300 ft. of shoreline

Public Access: Unmarked fire road

Uses: Swimming, fishing, non-motorized boating

Fish community: cold water

Data: PALS, Provincetown CCS



Current Condition: Stable

- Seasonal oxygen depletion in deep waters
- Included on Commonwealth's 2020-2022 List of Impaired Waters due to barriers to fish passage

Recommended Actions

- Evaluate alum treatment, aeration
- Septic system maintenance
- Continue monitoring and outreach

Depot Pond Water Quality Summary			
Water Column	Parameter	Result ¹	"Healthy" Ponds Thresholds ²
Upper Waters	Total Phosphorus	17.7 µg/L	≤10 µg/L
	Chlorophyll-a	11.2 µg/L	≤1.7 µg/L
	Secchi Disk Transparency	3.28 m	Not calculated
Lower Waters	Total Phosphorus	27.3 µg/L	--
	Dissolved Oxygen	3.58 mg/L	--

¹Annual average results (PALS) - total phosphorus, chlorophyll-a, Secchi disk transparency, and dissolved oxygen, 2012-2023.

²Cape Cod Commission 2003, Table 5.

Great Pond Eastham, MA

Updated August 2024



Setting

Pond Size: 109.7 acres; Maximum Depth: 36 ft.

Watershed Size: 226 acres

Public Access: Town Beach, Wiley Park, and Nickerson Conservation Area

Landuse: 53% residential within 300 ft. of shoreline

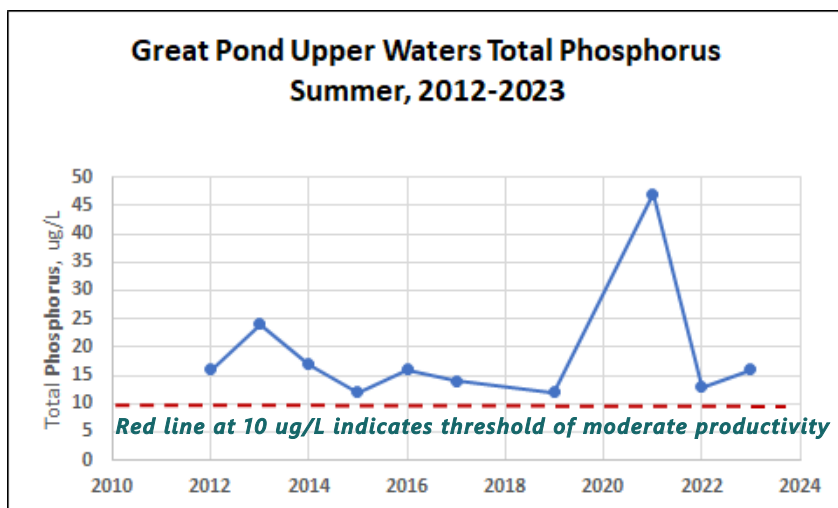
Uses: Swimming, fishing, non-motorized boating (motorized boating by permit)

Fish community: cold water

Data: PALS, Provincetown CCS

Current Condition: Stable

- Positive response to 2013 alum treatment program.
- Included on Commonwealth's 2020 - 2022 Priority List of Impaired Waters



Recommended Actions

In-pond measures:

- Continue monitoring effectiveness of 2013 alum treatment program

Watershed Best Management Practices:

- Septic system maintenance or replacement with public sewers
- Maintain shoreline vegetative buffers

Great Pond Water Quality Summary			
Water Column	Parameter	Result ¹	"Healthy" Ponds Thresholds ²
Upper Waters	Total Phosphorus	18.92 µg/L	≤10 µg/L
	Chlorophyll-a	9.16 µg/L	≤1.7 µg/L
	Secchi Disk Transparency	3.03 m	Not calculated
Lower Waters	Total Phosphorus	26.93 µg/L	--
	Dissolved Oxygen	2.84 mg/L	--

¹Annual average results (PALS) - total phosphorus, chlorophyll-a, Secchi disk transparency, and dissolved oxygen, 2014-2023.

²Cape Cod Commission 2003, Table 5.

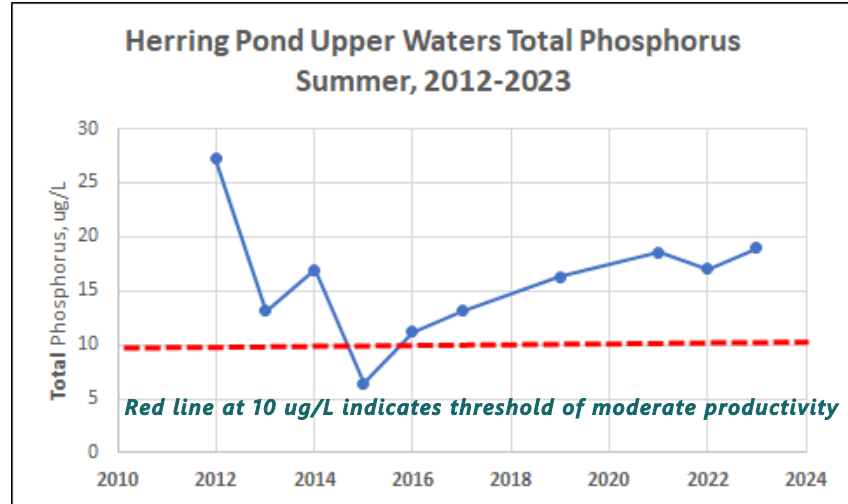
Herring Pond Eastham, MA

Updated August 2024



Setting

Pond Size: 44.2 acres; Maximum Depth: 35 ft.
 Watershed Size: 79.8 acres
 Public Access: Town Beach
 Landuse: 59% residential within 300 ft. of shoreline
 Uses: Swimming, fishing, boating
 Fish community: cold water
 Data: PALS, Provincetown CCS, Cape Cod Commission Freshwater Initiative expanded monitoring



Recommended Actions

In-pond Measures:

- Continue to track effectiveness of 2012 alum treatment program

Watershed Best Management Practices (BMPs):

- Septic system maintenance
- Residential and lawn practices

Current Condition: Stable

- Continued positive response to 2012 alum treatment

Herring Pond Water Quality Summary			
Water Column	Parameter	Result ¹	"Healthy" Ponds Thresholds ²
Upper Waters	Total Phosphorus	17.0 µg/L	≤10 µg/L
	Chlorophyll-a	8.5 µg/L	≤1.7 µg/L
	Secchi Disk Transparency	4.06 m	Not calculated
Lower Waters	Total Phosphorus	127.7 µg/L	--
	Dissolved Oxygen	3.65 mg/L	--

¹Annual average results (PALS) - total phosphorus, chlorophyll-a, Secchi disk transparency, and dissolved oxygen, 2013-2023.
²Cape Cod Commission 2003, Table 5.

Jemima Pond Eastham, MA

Updated August 2024



Setting

Pond Size: 6.4 acres; Maximum Depth: 15 ft.

Watershed Size: 17.9 acres

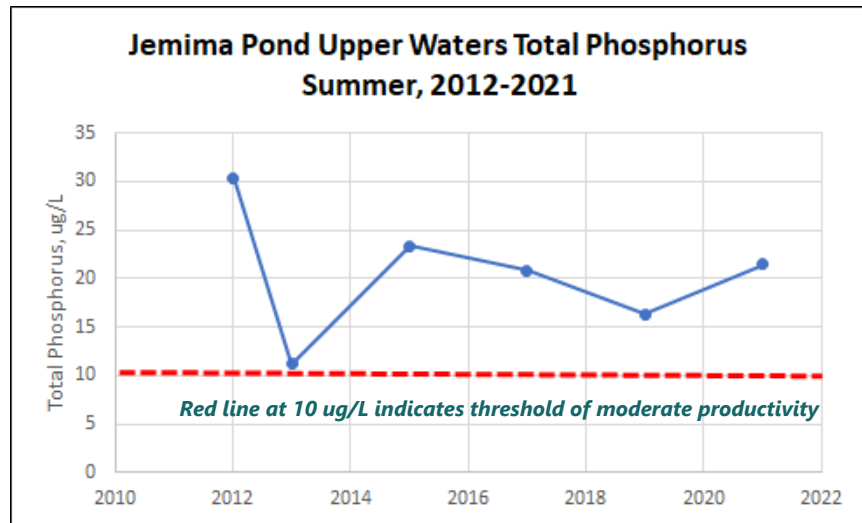
Public Access: Samoset Road bathing beach

Landuse: 59% residential within 300 ft. of shoreline

Uses: Swimming, fishing, non-motorized boating

Fish community: warm water

Data: PALS, Provincetown CCS



Current Condition: Stable

- Well-mixed water column, no evidence of dissolved oxygen depletion

Recommended Actions

Watershed Best Management Practices (BMPs):

- Maintain or upgrade septic systems
- Maintain vegetated shorelines
- Discourage large flocks of birds
- Control road runoff

Jemima Pond Water Quality Summary			
Water Column	Parameter	Result ¹	"Healthy" Ponds Thresholds ²
Upper Waters	Total Phosphorus	22.5 µg/L	≤10 µg/L
	Chlorophyll-a	9.06 µg/L	≤1.7 µg/L
	Secchi Disk Transparency	2.9 m	Not calculated

¹Annual average results (PALS) - total phosphorus, chlorophyll-a, Secchi disk transparency, and dissolved oxygen, 2012-2023.

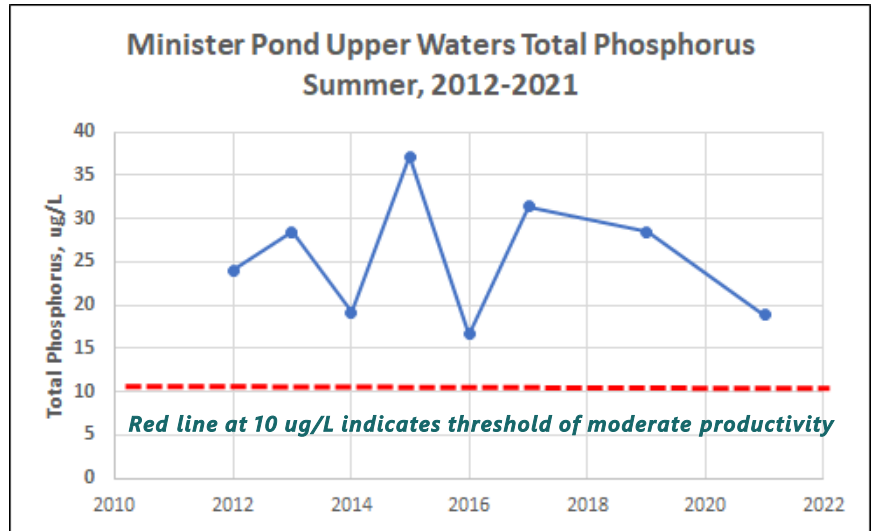
²Cape Cod Commission 2003, Table 5.

Minister Pond Eastham, MA

Updated August 2024

Setting

Pond Size: 16.8 acres; Maximum Depth: 13 ft. Watershed Size: 151 acres
 Landuse: 61% residential within 300 ft. of shoreline
 Public Access: "Fisherman's Launch" at Schoolhouse Pond
 Uses: Swimming, fishing, non-motorized boating
 Fish community: warm water
 Data: PALS, SOLitude, Provincetown CCS



Current Condition:

Responding to Remedial Measures

- Town is implementing in-lake remedial measures (aeration, hydroraking) and watershed protective measures (green infrastructure) with SOLitude and Horsley-Witten group.



Recommended Actions

- In-Lake Measures
 - Aeration or Alum Treatment
- Watershed Best Management Practices
 - Septic System Maintenance
 - Vegetated Shoreline
 - Mitigate road runoff

Minister Pond Water Quality Summary			
Water Column	Parameter	Result ¹	"Healthy" Ponds Thresholds ²
Upper Waters	Total Phosphorus	38.3 µg/L	≤10 µg/L
	Chlorophyll-a	15.3 µg/L	≤1.7 µg/L
	Secchi Disk Transparency	1.95 m	Not calculated
Lower Waters	Total Phosphorus	49.9 µg/L	--
	Dissolved Oxygen	3.62mg/L	--

¹Annual average results (PALS) - total phosphorus, chlorophyll-a, Secchi disk transparency, and dissolved oxygen, 2012-2023.
²Cape Cod Commission 2003, Table 5.

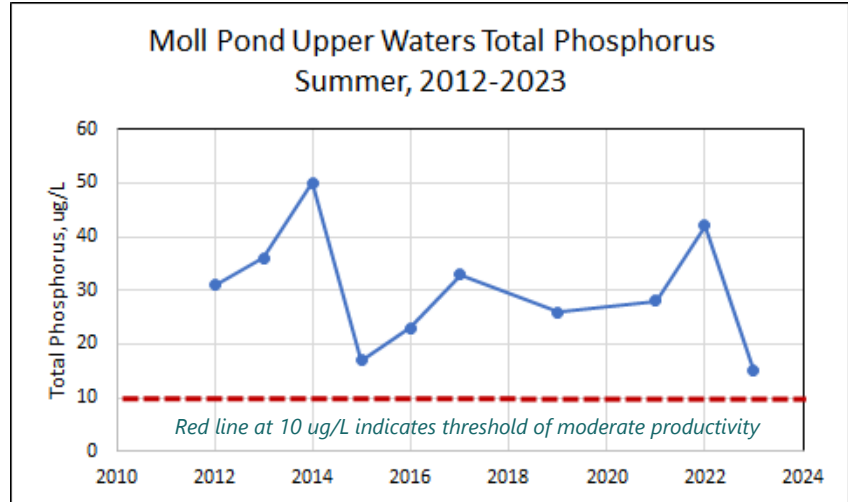
Molls Pond Eastham, MA

Updated August 2024



Setting

Pond Size: 3.4 acres; Maximum Depth: 12 ft.
 Watershed Size: 8.1 acres
 Landuse: 68% residential within 300 ft. of shoreline
 Public Access: None
 Uses: Swimming, fishing, non-motorized boating
 Fish community: warm water
 Data: PALS, Provincetown CCS



Current Condition : Impaired

- Included on the Commonwealth's 2020-2022 Priority List of Impaired Waters due to cyanobacterial blooms (HABs)

Recommended Actions

Watershed Best Management Practices (BMPs):

- Maintain or upgrade septic systems
- Maintain vegetated shoreline
- Discourage large flocks of birds
- Control road runoff

Moll Pond Water Quality Summary			
Water Column	Parameter	Result ¹	"Healthy" Ponds Thresholds ²
Upper Waters	Total Phosphorus	29.3 µg/L	≤10 µg/L
	Chlorophyll-a	15.9 µg/L	≤1.7 µg/L
	Secchi Disk Transparency	2.5 m	Not calculated
Lower Waters	Total Phosphorus	40.4 µg/L	--
	Dissolved Oxygen	6.3 mg/L	--

¹Annual average results (PALS) - total phosphorus, chlorophyll-a, Secchi disk transparency, and dissolved oxygen, 2012-2023.
²Cape Cod Commission 2003, Table 5.

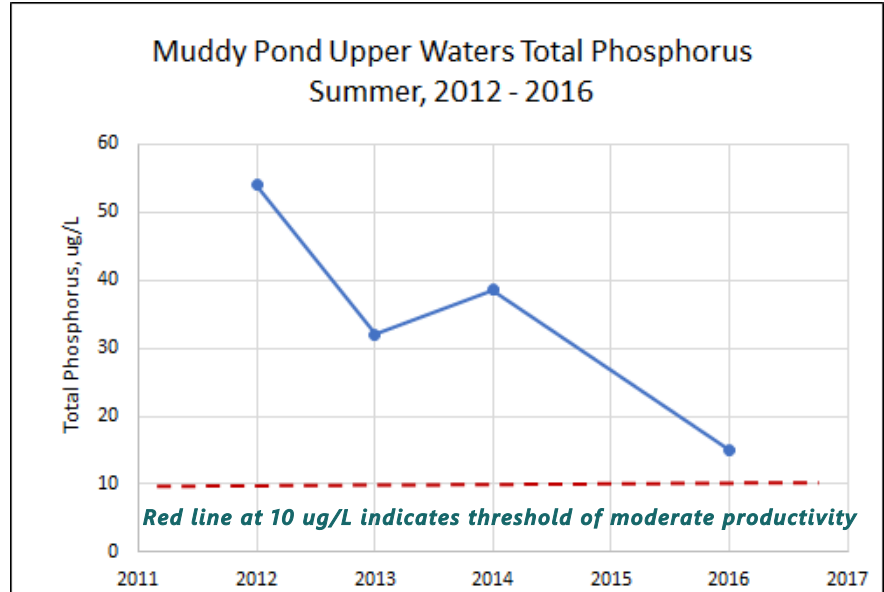
Muddy Pond Eastham, MA

Updated August 2024



Setting

Pond Size: 10.5 acres; Maximum Depth: 5 ft.
 Watershed Size: 39.9 acres
 Landuse: 67% residential within 300 ft. of shoreline
 Public Access: None; private beach
 Uses: Swimming, fishing, non-motorized boating
 Fish community: warm water
 Data: PALS (through 2015)



Current Condition: Stable

- Eutrophic
- Dense aquatic plant growth

Recommended Actions

In-pond measures:

- Aquatic plant management
- Resume routine monitoring

Watershed Best Management Practices (BMPs):

- Septic system maintenance
- Shoreline protective measures

Muddy Pond Water Quality Summary			
Water Column	Parameter	Result ¹	"Healthy" Ponds Thresholds ²
Upper Waters	Total Phosphorus	43.9 µg/L	≤10 µg/L
	Chlorophyll-a	24.6 µg/L	≤1.7 µg/L
	Secchi Disk Transparency	1.1 m	Not calculated

¹Annual average results (PALS) - total phosphorus, chlorophyll-a, Secchi disk transparency, and dissolved oxygen, 2012-2015.
²Cape Cod Commission 2003, Table 5.

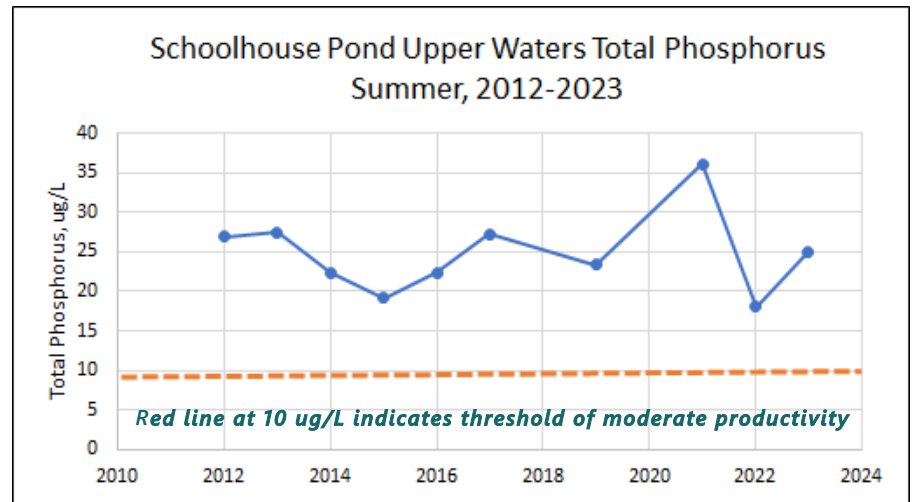
Schoolhouse Pond Eastham, MA

Updated August 2024



Setting

Pond Size: 6.8 acres; Max Depth: 13 ft.
 Watershed Size: 5.7 acres
 Landuse: 61% residential within 300 ft. of shoreline
 Public Access
 Pond Uses: Swimming, fishing, non-motorized boating
 Fish community: warm water
 Data: PALS, SOLitude, Provincetown CCS



Current Condition: Stable

- In-pond remedial measures of aeration and hydroraking have improved recreation
- Stormwater swale completed in 2023

Recommended Actions

In-lake Measures

- Continued aeration, and hydroraking

Watershed Measures

- Septic system maintenance
- Green infrastructure

Schoolhouse Pond Water Quality Summary			
Water Column	Parameter	Result ¹	"Healthy" Ponds Thresholds ²
Upper Waters	Total Phosphorus	28.7 µg/L	≤10 µg/L
	Chlorophyll-a	18.4 µg/L	≤1.7 µg/L
	Secchi Disk Transparency	1.6 m	Not calculated
Lower Waters	Total Phosphorus	54.8 µg/L	--
	Dissolved Oxygen	2.98 mg/L	--

¹Annual average results (PALS) - total phosphorus, chlorophyll-a, Secchi disk transparency, and dissolved oxygen, 2012-2023.
²Cape Cod Commission 2003, Table 5.

Widow Harding Pond Eastham, MA

Updated August 2024



Setting

Pond Size: 8.7 acres; Maximum Depth: 13 ft.

Watershed Size: 25.9 acres

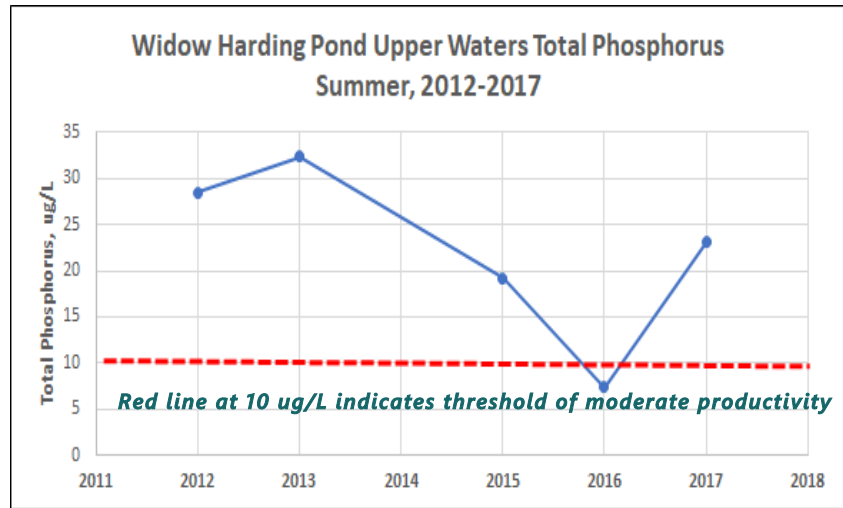
Landuse: 45% residential within 300 ft. of shoreline

Public Access: Walking trails in conservation area and Wiley Park

Uses: Wildlife viewing, swimming, fishing, non-motorized boating

Fish community: warm water

Data: PALS (through 2017), Provincetown CCS



Current Condition: Stable

Recommended Actions

Watershed Best Management Practices (BMPs):

- Resume routine monitoring
- Maintain or upgrade septic systems
- Maintain vegetated shoreline
- Control road runoff

Widow Harding Pond Water Quality Summary			
Water Column	Parameter	Result ¹	"Healthy" Ponds Thresholds ²
Upper Waters	Total Phosphorus	32.68 µg/L	≤10 µg/L
	Chlorophyll-a	18.08 µg/L	≤1.7 µg/L
	Secchi Disk Transparency	1.89 m	Not calculated
Lower Waters	Total Phosphorus	28.69 µg/L	--
	Dissolved Oxygen	5.08 mg/L	--

¹Annual average results (PALS) - total phosphorus, chlorophyll-a, Secchi disk transparency, and dissolved oxygen, 2012-2017.

²Cape Cod Commission 2003, Table 5.