

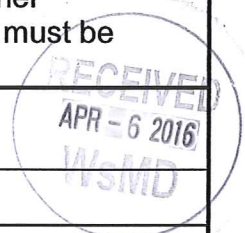
Application to Use **Bottom Barrier**
 under an **Aquatic Nuisance Control Permit**
 Per 10 VSA Chapter 50, § 1455



VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
 LAKES & PONDS PROGRAM

For Aquatic Nuisance Control Permit Program Use Only
 Application Number: **2016-B08**

Submission of this application constitutes notice that the entities listed below intend to use bottom barriers in waters of the State to control aquatic nuisance plants, insects, or other aquatic life; and that the entities below have demonstrated that (1) there is acceptable risk to the nontarget environment; (2) there is negligible risk to public health; and (3) there is either benefit to or no undue adverse effect upon the public good. Submit an application fee of \$35 for a private pond or \$75 for all other waterbodies, made payable to the State of Vermont. All information required on this form must be provided, and the requisite fees must be submitted to be deemed complete.



A. Applicant Information

1. Entity's Name: David and Kelli Brown

2a. Mailing Address: 400 Pine Shore Drive

2b. Municipality: Hinesburg 2c. State: VT 2d. Zip: 05461

3. Phone: 8024822723 4. Email: kelli_mcgonigal@yahoo.com

B. Bottom Barrier Installer Information (Check box if same as above in Section A:)

1. Entity's Name:

2a. Mailing Address:

2b. Municipality: 2c. State: 2d. Zip:

3. Phone: 4. Email:

C. Application Preparer Information (Check box if same as above: Section A and/or B)

1. Preparer's Name:

2a. Mailing Address:

2b. Municipality: 2c. State: 2d. Zip:

3. Phone: 4. Email:

D. Waterbody Information

1. Name of waterbody: Iroquois Lake - Hinesburg 2. Chittenden - Rutland

3. Are there wetlands associated with the waterbody? Yes No
 Contact the Vermont Wetland Program: (802) 828-1535 for additional information.

4. Are there rare, threatened or endangered species associated with the waterbody? Yes No
 Contact the Vermont Fish & Wildlife Natural Heritage Inventory: (802) 241-3700 for additional information.

5a. Is this waterbody a private pond (per 10 V.S.A. 5210)? Yes No If No, Skip to Question D6.

5b. Is this private pond totally contained on Applicant's property? Yes No

6. List the uses of the waterbody – check all that apply:
 Water supply Irrigation Boating Swimming Fishing Other:

E. Installation Information -M.C.

1a. Proposed installation date: 5/15/2016 June 15th 1b. Proposed removal date (if known): October 1st

2. Nuisance plant species to be controlled:

Eurasian watermilfoil

Submit additional information as needed.

3. Type of material to be used:

www.lakebottomblanket.com

Submit a copy of the manufacturer's instruction sheet, if available.

4. Provide a map of control activity area.

Provide location of (each) installation area within waterbody.

5. Quantity of installed material: 10x40 (feet²) x4 blankets
1,600 SF

6. Attach a brief narrative description of the proposed project to include the following items:

- a) Reason(s) to control the aquatic nuisance;
- b) Brief history of the aquatic nuisance in the waterbody; and,
- c) Description of the proposed control activity.

F. Applicant/Installer Certification

As APPLICANT, I hereby certify that the statements presented on this application are true and accurate; guarantee to hold the State of Vermont harmless from all suits, claims, or causes of action that arise from the permitted activity; and recognize that by signing this application, I agree to complete all aspects of the project as authorized. I understand that failure to comply with the foregoing may result in violation of the 10 VSA Chapter 50, § 1455, and the Vermont Agency of Natural Resources may bring an enforcement action for violations of the Act pursuant to 10 V.S.A. chapter 201.

Applicant/Installer Signature: kelli brown

Digitally signed by kelli brown
DN: cn=kelli brown, o=self, ou,
email=kelli_mcgonigal@yahoo.com, c=US
Date: 2016.04.02 08:00:06 -04'00'

Date: 4/2/2016

G. Application Preparer Certification (if applicable)

As APPLICATION PREPARER, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Application Preparer Signature: kelli brown

Digitally signed by kelli brown
DN: cn=kelli brown, o=self, ou,
email=kelli_mcgonigal@yahoo.com, c=US
Date: 2016.04.02 08:00:26 -04'00'

Date: 4/2/2016

H. Application Fees

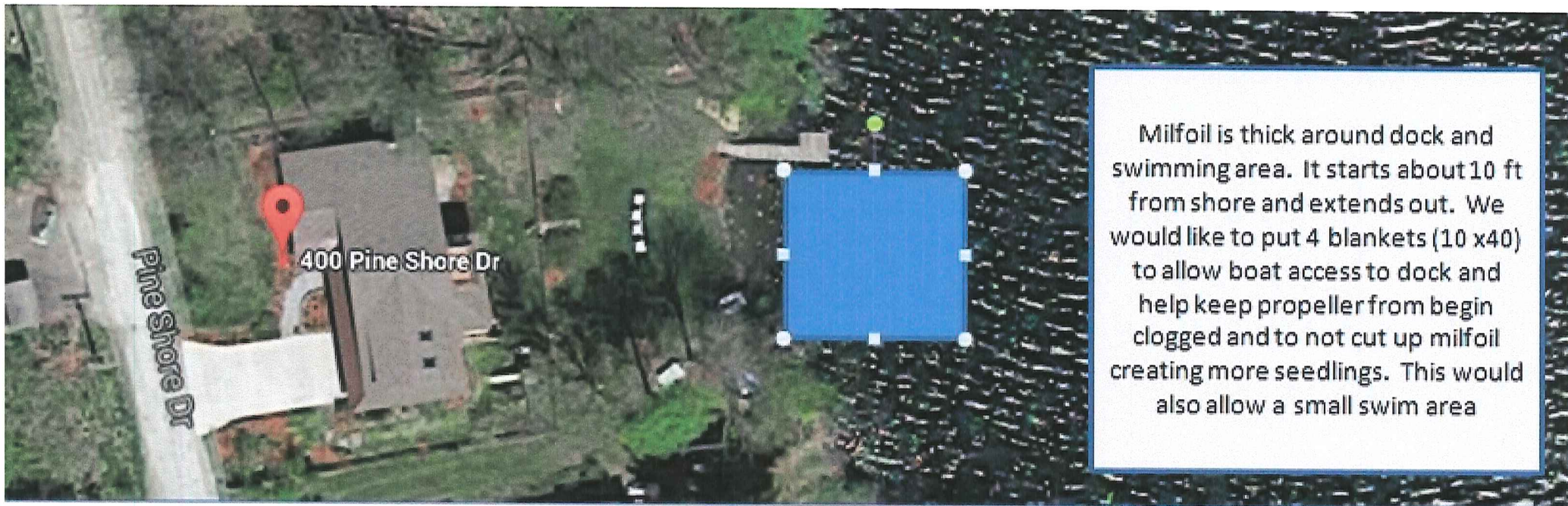
Print Form

Submit this form and the \$35 or \$75 fee to:

**Vermont Department of Environmental Conservation
Watershed Management Division
Aquatic Nuisance Control Permit Program
1 National Life Drive, Main 2
Montpelier, VT 05620-3522**

Direct all correspondence or questions to the Aquatic Nuisance Control Permit Program at:
ANR.Shoreland@vermont.gov

For additional information visit: www.watershedmanagement.vt.gov



Milfoil is thick around dock and swimming area. It starts about 10 ft from shore and extends out. We would like to put 4 blankets (10 x40) to allow boat access to dock and help keep propeller from begin clogged and to not cut up milfoil creating more seedlings. This would also allow a small swim area

**Vermont Natural Heritage Inventory
Vermont Fish & Wildlife Department
Element Occurrence Report**

Ceratophyllum echinatum

Prickly Hornwort

EO ID 10189

Global Rank G4?

Federal Protection Status

State Rank S2S3

State Protection Status

ID Confirmed? Y

LAKE IROQUOIS

County

Chittenden

Town

Williston

Hinesburg

Richmond

Topo Quad 4407341

4407331

Latitude 442213N

Longitude 0730502W

Last Survey 2012-09-14

Last Observation Date 2012-09-14

First Observation Date 2010-08-20

EO Data

2012: Reported by Lakes and Ponds division on 14 September. 2010: Observed on 20 and 23 August.

EO Rank E

EO Rank Date 2012

Reference Code

Citation

U13LAK01VTUS

Lakes and Ponds Program. 2013. Rare plant list from Vermont Lakes and Ponds Program database as of March 2013. Vermont Department of Environmental Conservation.

F10CET01VTUS

Cetner, Misha and Leslie Matthews. 2010. Partial plant assessment of Lake Iroquois, Williston, Vermont on 20 August 2010. Vermont DEC.

**Vermont Natural Heritage Inventory
Vermont Fish & Wildlife Department
Element Occurrence Report**

Elodea nuttallii

Nuttall Waterweed

EO ID 2772

Global Rank G5

Federal Protection Status

State Rank S3

State Protection Status

ID Confirmed? Y

LAKE IROQUOIS

County

Town

Chittenden

Hinesburg

Topo Quad 4407331

Latitude 442141N

Longitude 0730501W

Directions

Lake Iroquois is located at the corner of Williston and Richmond and is dissected into north and south by the townline of Hinesburg and St. George.

General Description

Lake Iroquois, except the northern and southern most ends, has a predominantly rocky bottom, exhibiting scattered to occasional growth interspersed with patches of more abundant growth. *Sagittaria* sp., *Elodea canadensis*, *Potamogeton praelongus*, *P. strictifolius*, *P. crispus*, and *Chara* sp. are the predominant species.

Minimum Elevation (ft) 700

Maximum Elevation (ft)

Last Survey 2012-08-30

Last Observation Date 2012-08-30

First Observation Date 1984-07-19

EO Data

2012: Reported 30 August by Lakes and Ponds division. 2010: Observed. 1987: One plant seen in the weedy area of the southern cove. 1984: Observed 19 July.

EO Rank E

EO Rank Date 1995-05-11

Reference Code

Citation

U01LAK01VTUS

Lakes and Ponds Program. 2001. Rare plant list from Vermont Lakes and Ponds Program database of 17 August 2001. Vermont Department of Environmental Conservation.

F87WAR01VTUS

Warren, S., R. O'Connell, and C. Carver. 1987. Aquatic Plant Survey to Lake Iroquois of 15 June 1987.

F10CET01VTUS

Cetner, Misha and Leslie Matthews. 2010. Partial plant assessment of Lake Iroquois, Williston, Vermont on 20 August 2010. Vermont DEC.

U13LAK01VTUS

Lakes and Ponds Program. 2013. Rare plant list from Vermont Lakes and Ponds Program database as of March 2013. Vermont Department of Environmental Conservation.

**Vermont Natural Heritage Inventory
Vermont Fish & Wildlife Department
Element Occurrence Report**

Najas gracillima

Slender Naiad

EO ID 9480

Global Rank G5?

Federal Protection Status

State Rank S2

State Protection Status

ID Confirmed? Y

LAKE IROQUOIS

County

Chittenden

Town

Williston

Richmond

Hinesburg

Topo Quad 4407331

Latitude 442157N

Longitude 0730458W

Directions

1968: "Hinesburg Pond (Iroquois Lake), Hinesburg."

Last Survey 2010-08-20

Last Observation Date 1968-09-17

First Observation Date 1968-09-17

EO Data

2010: Not observed in partial plant assessment. 1968: Specimen collected.

EO Rank H

EO Rank Date 1968

Reference Code

S68SEYVTVTUS

F10CET01VTUS

Citation

Seymour, Frank C. 1968. Specimen at Pringle Herbarium, University of Vermont.

Cetner, Misha and Leslie Matthews. 2010. Partial plant assessment of Lake Iroquois, Williston, Vermont on 20 August 2010. Vermont DEC.

Specimens

Seymour, F.C. and A. Vicente Bustamante (FCS 27220). 17 September 1968. VT.

**Vermont Natural Heritage Inventory
Vermont Fish & Wildlife Department
Element Occurrence Report**

Potamogeton strictifolius

Straight-leaf Pondweed

EO ID 5330

Global Rank G5

Federal Protection Status

State Rank S2S3

State Protection Status

LAKE IROQUOIS

County

Chittenden

Town

Hinesburg

Topo Quad 4407331

Latitude 442141N

Longitude 0730501W

Directions

Lake Iroquois is located at the corner of Williston and Richmond and is dissected into north and south by the townline of Hinesburg and St. George.

General Description

Lake Iroquois, except the northern and southern most ends, has a predominantly rocky bottom, exhibiting scattered to occasional growth interspersed with patches of more abundant growth. *Sagittaria* sp., *Elodea canadensis*, *Potamogeton praelongus*, *P. strictifolius*, *P. crispus*, and *Chara* sp. are the predominant species. 1975: Hellquist reports the alkalinity is 37.5mg/l CaCO₃.

Minimum Elevation (ft) 700

Maximum Elevation (ft)

Last Survey 2010-08-20

Last Observation Date 1993-08-02

First Observation Date 1987-06-15

EO Data

2010: Not observed in partial plant assessment. 1993: Observed 02 August. 1992: Observed 09 June. 1987: Observed 15 June.

EO Rank E

EO Rank Date 2002-01-14

General Comments

2003: *Myriophyllum spicatum* occurs at lake.

Reference Code

Citation

U01LAK01VTUS

Lakes and Ponds Program. 2001. Rare plant list from Vermont Lakes and Ponds Program database of 17 August 2001. Vermont Department of Environmental Conservation.

F10CET01VTUS

Cetner, Misha and Leslie Matthews. 2010. Partial plant assessment of Lake Iroquois, Williston, Vermont on 20 August 2010. Vermont DEC.

**Vermont Natural Heritage Inventory
Vermont Fish & Wildlife Department
Element Occurrence Report**

Potamogeton vaseyi

Vasey's Pondweed

EO ID 129

Global Rank G4

Federal Protection Status

State Rank S2

State Protection Status

LAKE IROQUOIS

County
Chittenden

Town
Williston
Richmond
Hinesburg

Topo Quad 4407331

Latitude 442214N

Longitude 0730454W

Directions

WILLISTON. LAKE IROQUOIS SWAMP.

Minimum Elevation (ft) 700

Maximum Elevation (ft)

Last Survey 2010-08-20

Last Observation Date 1993-08-02

First Observation Date 1991-06-11

EO Data

2010: Not observed in partial plant assessment. 1993: Observed 02 August. 1991: Found at 1 or 2 sites around the lake.

EO Rank E

EO Rank Date

Reference Code

Citation

U01LAK01VTUS

Lakes and Ponds Program. 2001. Rare plant list from Vermont Lakes and Ponds Program database of 17 August 2001. Vermont Department of Environmental Conservation.

F10CET01VTUS

Cetner, Misha and Leslie Matthews. 2010. Partial plant assessment of Lake Iroquois, Williston, Vermont on 20 August 2010. Vermont DEC.

**Vermont Natural Heritage Inventory
Vermont Fish & Wildlife Department
Element Occurrence Report**

Utricularia minor
Lesser Bladderwort

EO ID 10190

Global Rank G5

Federal Protection Status

State Rank S3

State Protection Status

LAKE IROQUOIS

County
Chittenden

Town
Hinesburg
Richmond
Williston

Topo Quad 4407331
4407341

Latitude 442213N

Longitude 0730502W

Last Survey 2012-09-14

Last Observation Date 2012-09-14

First Observation Date 2012-09-14

EO Data

2012: Reported by Lakes and Ponds division on 14 September.

EO Rank E

EO Rank Date 2012

Reference Code

Citation

U13LAK01VTUS

Lakes and Ponds Program. 2013. Rare plant list from Vermont Lakes and Ponds Program database as of March 2013. Vermont Department of Environmental Conservation.

From: Kelli Brown <kelli_mcgonigal@yahoo.com>
Sent: Tuesday, May 10, 2016 6:08 PM
To: Cetner, Misha
Subject: Re: Aquatic Nuisance Control Permit Application 2016-B08

Follow Up Flag: Follow up
Flag Status: Flagged

So sorry for the delay in my response.
I needed to consult with Rodney.
Thanks for updating the date.
Let me know if you need anything else
Kelli Brown
316 2393

- Please estimate the percent cover of Eurasian watermilfoil within the proposed area for the bottom barrier as you have typically observed during the summer months of the year.

Starting "15ft" from shoreline & extending out another 75 ft, 90% of our waterfront has Milfoil

- How will the bottom barrier be weighted to the bottom of the lake (please include a description and the amount of material that may be used)?

Per the instructions from manufacturer, every 10 ft of the blanket has a metal rebar that weights it down, but allows blanket to not lay flat against bottom, depending on wave action & movement additional weight maybe needed

Sent from my iPhone

On May 10, 2016, at 11:46 AM, Cetner, Misha <Misha.Cetner@vermont.gov> wrote:

- Please estimate the percent cover of Eurasian watermilfoil within the proposed area for the bottom barrier as you have typically observed during the summer months of the year.
- How will the bottom barrier be weighted to the bottom of the lake (please include a description and the amount of material that may be used)?