

cc study - 2/17/16

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-B03**

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: Craftsbury Outdoor Center

2a. Mailing Address: 535 Lost Nation Rd

2b. Municipality: Craftsbury Common

2c. State: VT

2d. Zip: 05827

3. Phone: 802-586-7767

4. Email: ~~stay@craftsbury.com~~ johnbrod@craftsbury.com

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

1. Entity's Name:

2a. Mailing Address:

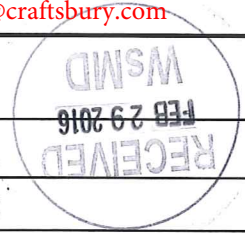
2b. Municipality:

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: John Brodhead

2a. Mailing Address:

2b. Municipality:

2c. State:

2d. Zip:

3. Phone:

4. Email:

D. Waterbody Information

1. Name of waterbody: Great Hosmer Pond - Craftsbury

2. Craftsbury - Orleans

3. Are there wetlands associated with the waterbody? Yes No *4/7/15 Shannon Morrison*
Contact the Vermont Wetland Program: (802) 828-1535 for additional information. *"No problem in Hosmer pond"*

4. Are there rare, threatened or endangered species associated with the waterbody? Yes No *4/7/15 Everett Marshall*
Contact the Vermont Fish & Wildlife Natural Heritage Inventory: (802) 241-3700 for additional information. *"Location unknown"*

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

October 1, 2016

1a. Proposed installation date: June 15 2016

1b. Proposed removal date (if known) : ~~June 1, 2018~~

2. Nuisance plant species to be controlled:

Eurasian Water Milfoil

Submit additional information as needed.

3. Type of material to be used:

Aquascreen

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: 3000 (feet²)

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: John Brodhead Date: 2/17/16

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: John Brodhead Date: 2/17/16

H. Application Fees

Print Form

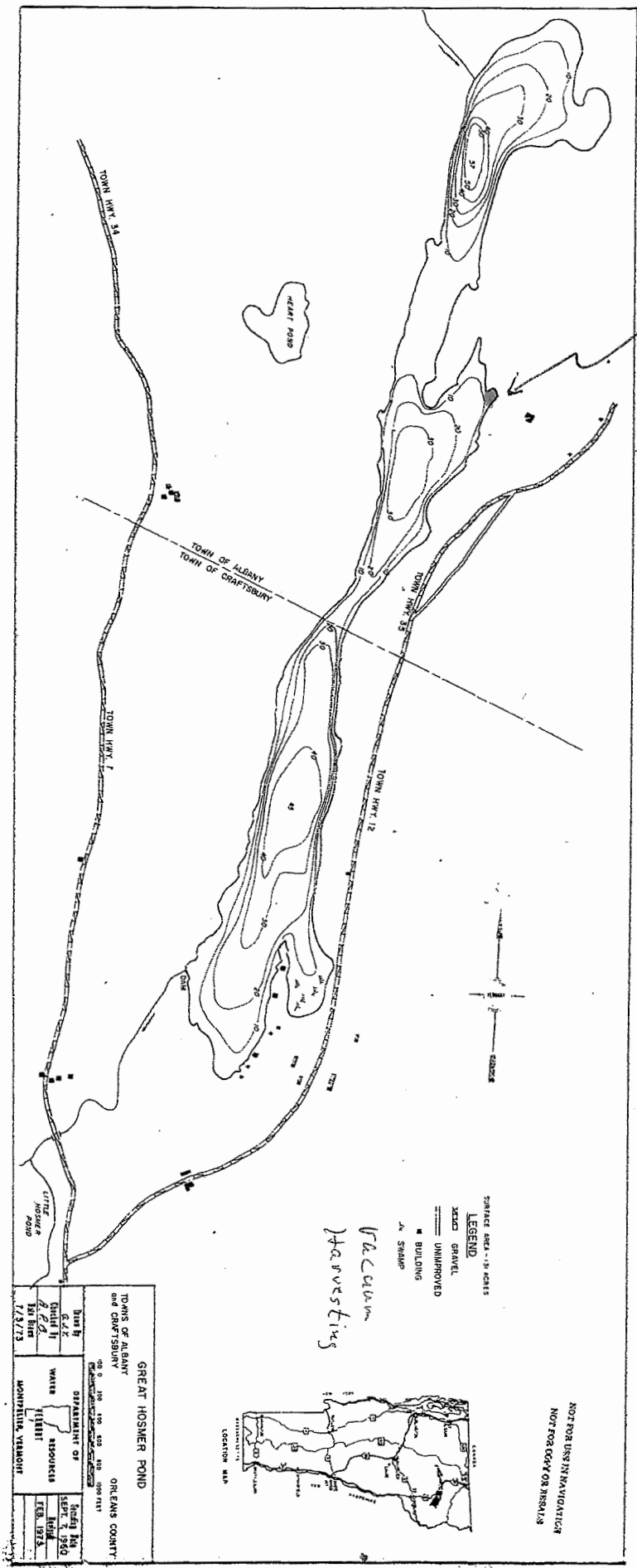
Submit this form and the \$35 or ~~\$75~~ fee to:

**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

-Will be installed and removed annually.
Update via email on 5/13/2016



Proposed
bottom
barrier
installation
June 15 2016
at Hosmer
Point swim
area

-Will be installed and
removed annually. Will be
removed before October 1st.
Update via email 5/13/2016
-M.C.

| | | | | |
|-------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------|
| GREAT HOSMER POND TOWNS OF ALBANY and CRAFTSBURY ORLEANS COUNTY RECORDED IN BOOK 102 PAGE 111 1973 | | Date by G.D.K. Guild II 8/22/73 1/3/73 | DEPARTMENT OF WHITE (11111) MOUNTAIN, VERMONT | State of VERMONT SEPT. 4, 1960 REVIS FEB. 1973 |
|-------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------|

vacations
harvesting

NOT FOR USE IN NAVIGATION
NOT FOR COPY OR REPRODUCTION

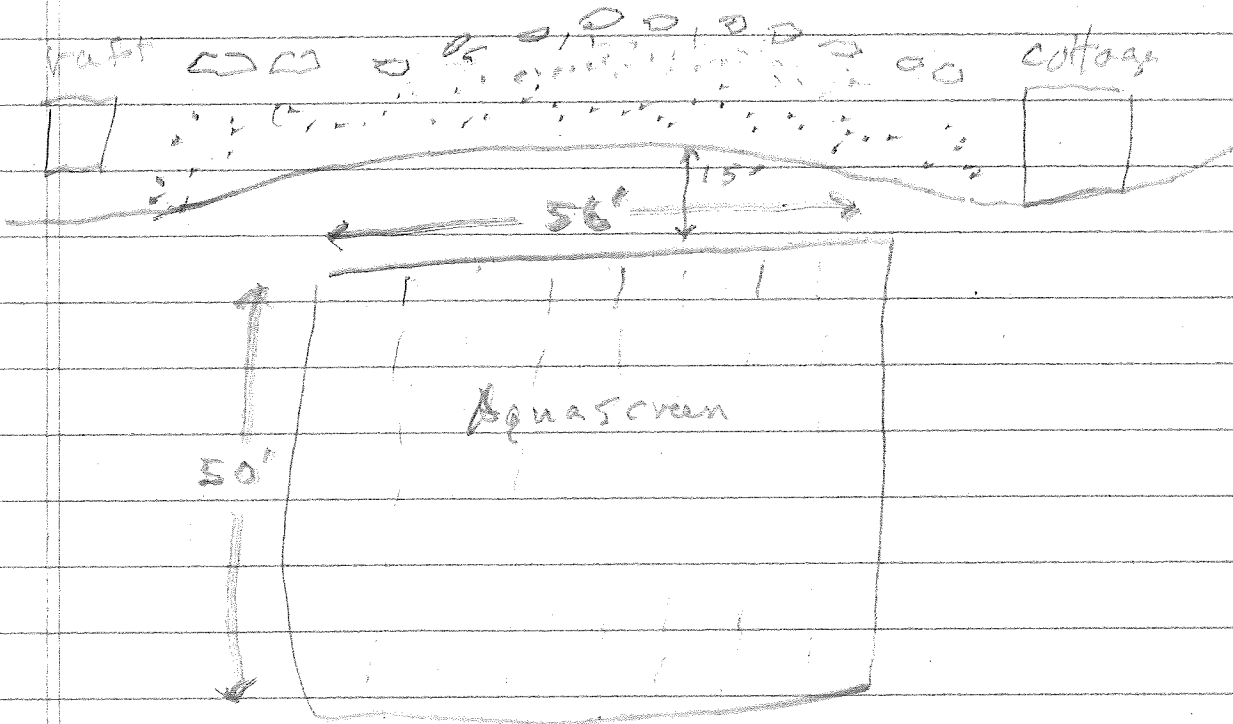
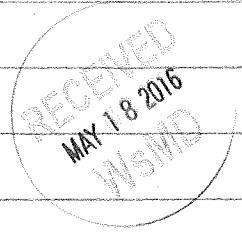
5/13/2016

Great Harbor Pond Permit 2016-1303

John Brodhead

8025867367 x26

johnbrod@craftsbury.com



Great Harbor Pond



From: John Brodhead <johnbrod@craftsbury.com>
Sent: Friday, May 13, 2016 7:02 PM
To: Cetner, Misha
Subject: 2016-B03 Great Hosmer Pond
Attachments: IMG_0812.JPG; ATT00001.txt

Follow Up Flag: Follow up
Flag Status: Flagged

The orange buoys indicate the aqua screen area.

Brief Narrative of proposed activity:

Milfoil has invaded swimming area and is a nuisance to swim through and growing very fast there.

Milfoil has been present in Great Hosmer Pond since 2002.

Aqua screen will be laid out in the swimming area and weighted with rebar.

From: John Brodhead <johnbrod@craftsbury.com>
Sent: Friday, May 13, 2016 3:17 PM
To: Cetner, Misha
Subject: RE: Aquatic Nuisance Control Permit Application 2016-B03

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Misha. I went out with my camera and took some pictures of the proposed bottom barrier site. I emailed one to you showing the Hosmer Point Camp swimming beach with orange buoys indicating the 50 feet by 56 feet dimensions of barrier on the water. I would start about 15 feet off the beach and continue out 50 feet. Since the depth drops quickly that would avoid swimmers disturbing the barrier or weighting system. Note relationship to beach straight ahead, cabin to the right and rafts on the beach to the left.

Within the 3000 ft³ area the cover by milfoil is 100%. The sand beach goes down slope about 15 feet to a depth of 8 feet with a variety of potamogetons, elodea, and chara and then changes to all milfoil which goes out 50 feet to a depth of 20 feet where the milfoil diminishes to very low density.

As we talked on the phone, your best info on rare and endangered species on the lake is Everett Marshall. He worked with us for my DASH application in 2015. P strictifolius has been found in the lake but the location was not established in the report. You are welcome to take a look at the bottom barrier site. I do not feel qualified to ID the Pondweeds.

The barriers will be placed after June 15 and removed before October 1.

John Brodhead

From: Cetner, Misha [<mailto:Misha.Cetner@vermont.gov>]
Sent: Wednesday, May 11, 2016 3:10 PM
To: John Brodhead
Subject: FW: Aquatic Nuisance Control Permit Application 2016-B03

John,

See the message below regarding technical updates for the proposed bottom barrier.

Thanks,
Misha

From: Cetner, Misha
Sent: Wednesday, April 20, 2016 9:27 AM
To: 'stay@craftsbury.com' <stay@craftsbury.com>
Subject: Aquatic Nuisance Control Permit Application 2016-B03

John,

Apologies for the delay in completing the technical review for your Aquatic Nuisance Control application. In reviewing application 2016-B03, requesting to install 3,000 square feet of aquascreen, please provide the following for the application to be considered technically complete:

- A more descriptive map of the area proposed for the aquascreen. This would include a zoomed in view of the length of shoreline where this project would take place with details as to where the swimming area is and what the specific dimensions of the aquascreen would be. Hand drawn maps are acceptable provide dimensions of the project site are present.
- What the density of plant growth is during the summer season. Please provide an estimate of the percent frequency of

Eurasian watermilfoil within the proposed 3,000 square foot control area.

- If you have any photos of the project area, especially ones that may depict the aquatic plant growth, please provide copies.
- Identify the depths at which the aquascreen would be installed as well as how far from shore and how far out into the lake the aquascreen will go.
- You identified that rare, threatened, or endangered (RTE) species are associated with this waterbody. Please provide a list of applicable species. Has an aquatic plant survey been done in this area to confirm no RTE species will be eliminated by this project?
- How the aquascreen will be maintained after it has been installed. Benthic barriers become increasingly difficult to remove once sediment begins to accumulate.

Let me know if you have any questions.

Thank you,
Misha



Misha Cetner, Permit Analyst

Lake & Shoreland Permitting

1 National Life Drive, Main 2

Montpelier, VT 05620-3522

802-490-6199 / Misha.Cetner@vermont.gov

www.watershedmanagement.vt.gov

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

Potamogeton strictifolius

Straight-leaf Pondweed

EO ID 6212 EO # 27

Global Rank G5 Federal Protection Status

State Rank S2S3 State Protection Status

ID Confirmed? Y

GREAT HOSMER POND

| | |
|---------|------------|
| County | Town |
| Orleans | Craftsbury |
| | Albany |

Topo Quad 4407263 Latitude 444139N Longitude 0722137W

Directions

Straddling the Craftsbury/Albany townline. From Mill Village in Craftsbury, take Mill Village Road north. At the junction with Lost Nation Road, either stay on Mill Village Road then take the next right to access the pond, or take Lost Nation Road up the east side of the pond. Several access points near camps on the east side.

Minimum Elevation (ft) 342 Maximum Elevation (ft) 342

Last Survey 1997-09-17 Last Observation Date 1997-09-17 First Observation Date 1986-07-08

EO Data

1997: No data. 1992: Specimen collected. 1986: No data.

EO Rank E Rank Date

Additional Topics

2011: Specimen collected September 1992 at DEC has been confirmed as *Potamogeton strictifolius* by Barre Hellquist in May 2000.

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.