



April 20, 2026

Inland Wetlands Agency
27 Main Street
P.O. Box 548
Salisbury, CT 06068

Dear Agent,

Please find enclosed the draft Permit Application for the Use of Pesticides in State Waters being submitted to the Connecticut Department of Energy & Environmental Protection for the proposed treatment of TWIN LAKES SALISBURY, CT.

If any additional information is needed please do not hesitate to contact us.

Sincerely,

Bethany Bowers

Bethany Bowers
Permit Coordinator
SOLitude Lake Management
508-981-7036
bethany.bowers@solitudelake.com

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Connecticut Department of
 Energy & Environmental Protection
 Bureau of Materials Management & Compliance Assurance
 Engineering & Enforcement Division

Permit Application for the Use of Pesticides in State Waters

Affiliations:

Description: East and West Twin Lakes in Salisbury

Filed By: **Bethany Bowers**

E-mail: bethany.bowers@solitudelake.com

Affiliations

Type	Name	Mailing Address	Business Phone	Contact
Applicant	SOLITUDE LAKE MANAGEMENT, LLC	590 Lake St Shrewsbury, MA 01545, US	508-865-1000	Bethany Bowers 508-826-5490 Bethany.bowers@solitudelake.com
Billing Contact	SOLITUDE LAKE MANAGEMENT, LLC	590 Lake St Shrewsbury, MA 01545, US	508-865-1000	Bethany Bowers 508-826-5490 Bethany.bowers@solitudelake.com
Primary Contact	SOLITUDE LAKE MANAGEMENT, LLC	590 Lake St Shrewsbury, MA 01545, US	508-865-1000	Bethany Bowers 508-826-5490 Bethany.bowers@solitudelake.com
Owner				
Pesticide Applicator	SOLITUDE LAKE MANAGEMENT, LLC	590 Lake St Shrewsbury, MA 01545, US	508-865-1000	Dominic Meringolo 508-865-1000 dmeringolo@solitudelake.com

Part I: Application Type and Description

Application Type

This application is to request (check one):

- One year permit
- Two year permit
- Three year permit

Note: Multi-year permits will be issued at the Department of Energy and Environmental Protection's (DEEP) discretion.

- Check here if DEEP has previously issued an Aquatic Pesticide Permit for this site.

Permit Number for most recent permit: **AQUA-2025-135**

- Check here if the information contained in this application is identical to the last application and the chemicals, quantities and number of treatments requested are identical to the chemicals, quantities and number of treatments permitted by the most recent permit issued.

Town where site is located: **Salisbury**

Brief Description of Project: **East and West Twin Lakes in Salisbury**

Part II: Fee Information

An application fee of \$200.00 [#1009] is to be submitted with each permit that you are applying for. Each site requires a separate permit. The application will not be processed without payment of the fee. If you are applying for a multi-year permit, see Part II of the [instructions](#)

for information on fee payment. There is no discount for municipalities. The fee shall be non-refundable and shall be paid by e-check or credit card to the Department of Energy and Environmental Protection.

Part III: Site Location

Name of Waterbody **Twin Lakes**

SITE LOCATION

NORTH OF ROUTE 44 AND SOUTHWEST OF TWIN LAKE ROAD , SALISBURY, CT ,
[Salisbury]

Part IV: Applicant Information

Additional information is required for applicant

Please indicate the type of business

corporation

limited liability company

limited partnership

limited liability partnership

statutory trust

other

ii) provide Pesticide Application Business Registration Number: **PMBR.03268**

Registration Expiration Date **08/31/2026**

b) Applicant's relationship to the property at which the proposed activity is to be located:

site owner

option holder

lessee

easement holder

operator

pesticide applicator

other

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2. Owner Information

a. If known, list the name and address of all owners of the area(s) to be treated. If unsure, go to item #2b.

b. If the applicant is unsure of who owns an area(s) to be treated, provide the name and address for all shoreline property owners located 200 feet or less from such area. However, if the applicant does know who owns the area to be treated, then return to the 'Companies/Entities/Individuals Associated with the Filing' section by selecting the arrow in the top left corner of this screen and add the Owner(s).

Name of Shoreline Property Owner	Address
Twin Lakes Association of Salisbury, Inc	PO Box 99, Salisbury, CT 06068

Does the State of Connecticut own any portion of the area to be treated?

Yes

No

**If an area(s) to be treated is owned or controlled by the state of Connecticut, see [instructions](#)*

for submitting an application to the DEEP Land Acquisition and Management Unit (LAM) for review and approval of the proposed treatment on state property. A LAM Authorization letter must be submitted as Attachment G for any application involving treatment of a waterbody that is owned or controlled by the state of Connecticut.

3. Pesticide Applicator

Is this a Commercial Application?

Yes

No

Pesticide application Certification Number **PMCS-0003994**

Pesticide application Certification Expiration Date **01/31/2028**

Part V: Additional Information

If the applicant is submitting this application on behalf of someone else, identify the person(s) or organization(s) seeking to have pesticides applied to the treatment area(s) and provide the following information. If more than one person or organization is being represented, attach additional sheets providing the information requested below.

Name	Mailing Address	Business Phone	Contact Person
Twin Lakes Association of Salisbury, Inc	PO Box 99, Salisbury, CT 06068	6177338857	Grant Bogle

Part VI: Site Information

1. COASTAL AREA

Is this pesticide application located in the municipality within the coastal area? (check town list in the instructions)

- Yes
 No

For assistance in determining if the water being treated is affected by tidal water as described above or in completing the Coastal Consistency Review form, contact the Office of Long Island Sound Programs (OLISP) at 860-424-3034.

2. NATURAL DIVERSITY DATA BASE (NDDDB) - ENDANGERED OR THREATENED SPECIES

According to the most current 'Natural Diversity Data Base Areas Maps', will the activity which is the subject of this application, including all impacted areas, be located within an area identified as, or otherwise known to be, a habitat for state listed endangered, threatened or special concern species?

- Yes
 No

Date of Map **12/2025**

If yes, complete and submit a

[Request for NDDDB State Listed Species Review Form](#)

(DEEP-APP-007) to the address specified on the form, prior to submitting this application.

Please note NDDDB review generally takes 4 to 6 weeks and may require the applicant to produce additional documentation, such as ecological surveys, which must be completed prior to submitting this permit application. A copy of the NDDDB Determination response letter that has not expired must be submitted with this completed application as Attachment D. Include a copy of any mitigation measures developed for this activity and approved by NDDDB. Be aware that you must renew your NDDDB Determination if it expires before project work commences. If the required NDDDB documents are not submitted as Attachment D, your application will be deemed incomplete and may be subject to denial.

For more information visit the DEEP website at

<http://www.ct.gov/deep/nddbrequest>

or call the NDDDB at 860-424-3011.

3. AQUIFER PROTECTION AREAS

Is the site located within a town required to establish Aquifer Protection Areas, as defined in section 22a-354a through 354b of the General Statutes (CGS)?

- Yes
 No

To view the applicable list of towns and maps visit the DEEP website at

<http://www.ct.gov/deep/aquiferprotection>

If yes, is the site within an area identified on a Level A or Level B map?

- Yes
 No

4. CONSERVATION OR PRESERVATION RESTRICTION

Is the property subject to a conservation or preservation restriction?

- Yes
- No

5. TYPE OF AREA TO BE TREATED

Select area type

- Tidal Waters
- Pond or Lake
- Stream

6. PUBLIC WATER SUPPLY WATERSHED

Is the waterbody located in a public water supply watershed?

[\(See instructions\)](#)

- Yes
- No

7. WATERBODY LOCATION FROM PUBLIC WATER SUPPLY

Is the waterbody potentially located 200 ft. or less from a public water supply well?

- Yes
- No

If Yes, DPH comments must be submitted as Attachment I to this application.

[\(See instructions\)](#)

8. Where does the waterbody flow to?

Name of receiving stream or waterbody? **Shenob Brook**

Is the outflow usually flowing?

- Yes
- No

Can outflow be stopped?

- Yes
- No

9. SIZE OF WATERBODIES TO BE TREATED

Identify the size of the waterbody(ies) and the portion of the waterbody(ies) to be treated. Refer to the [instructions](#).

What type of waterbodies will be treated?

- Ponds and Lakes
- Streams and Rivers

Will more than 80 Acres be treated?

- Yes
- No

If treating more than 80 acres of a single waterbody or 20 linear miles of shoreline in a calendar year, registration for approval under the [General Permit for Point Source Discharges to Waters of the State from the Application of Pesticides](#) is required. (see instructions)

Name of Waterbody	Total Acres	Average Depth ft.	Total Volume Acre ft.	Acres	Volume Acre ft.
East Twin Lake	569	32.5	18493	225	7312.5
West Twin Lake	289.8	8.9	2579	75	667.5

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10. PROPOSED PRODUCT TO BE USED

Identify each proposed product to be used, the amount per treatment, the number of treatments and the surface area (acres) or volume (acre feet) of water to be treated with that product. If more than one waterbody will be treated, provide this information for each waterbody. Provide quantities using only in the units specified in the [instructions](#).

Name of Waterbody	Full Product Name	Active Ingredient	Amount per Treatment	Measurement Units	Number of Treatment	Acres	Volume Acre-ft
East Twin Lake	Sonar H4C	Fluridone (2.7%)	6750	Pounds	1	75	1125
East Twin Lake	Sonar AS	Fluridone (41.7%)	60.76	Quarts	1	150	2250
East Twin Lake	Tribune	Diquat Dibromide (37.3%)	50	Gallons	2	50	500
East Twin Lake	Aquathol K	Endothall (Dipotassium Salt) (40.3%)	475	Gallons	2	25	250
East Twin Lake	ProcellaCOR EC	Florpyrauxifen-benzyl (2.7%)	1.83	Gallons	2	50	500
West Twin Lake	Tribune	Diquat Dibromide (37.3%)	50	Gallons	2	50	500
West Twin Lake	Aquathol K	Endothall (Dipotassium Salt) (40.3%)	475	Gallons	2	25	250
West Twin Lake	ProcellaCOR EC	Florpyrauxifen-benzyl (2.7%)	1.83	Gallons	2	50	500

11. PUBLIC ACCESS

Does the waterbody have public access?

- Yes
 No

12. STATE-OWNED BOAT LAUNCH

Is there a [state-owned boat launch](#)?

- Yes
 No

If yes, will the boat launch be used to access the waterbody?

- Yes
 No

13. STOCKED WITH FISH

Is the waterbody stocked with fish by the state?

- Yes
- No

14. USE OF WATERBODY

Identify use(s) of waterbody:

- Domestic Water Supply
- Irrigation
- Watering Livestock
- Swimming
- Fishing
- None

15. DOWNSTREAM USERS AFFECTED BY TREATMENT

Are there any downstream users of the water who may be affected by treatment?

- Yes
- No

16. PRIVATE DRINKING WELLS

Within 200 ft. inclusive of the treatment area are there any private drinking water wells 50 ft. or less from the shoreline?

- Yes
- No

17. PLANTS OR ANIMALS TO BE CONTROLLED

Identify all plants or animals to be controlled: **Hydrilla, Eurasian watermilfoil, Curly-leaf pondweed, Brittle naiad**

18a. FISH PRESENT

Identify all types of fish present: **Common warm water species, bass, trout, salmon**

18b. ALKALINITY OF WATER

If a copper-based product will be used and there are fish species sensitive to copper, what is the alkalinity of the water to be treated? Please include units.

Value

19. TIME PERIOD OF PESTICIDE USE

Projected Date(s) of Pesticide Use **5/1, 6/1, 7/1, 8/1, 9/1**

20. PRIOR YEARS CHEMICALS WERE APPLIED TO WATERBODY

List prior years in which chemicals were applied to this waterbody: **2003-2025**

Part VII: Supporting Documentation

Be sure to read the instructions (DEEP-PEST-INST-200) to determine whether the attachments listed are applicable to your specific activity. Check the applicable box below for each attachment being submitted with this application form. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the applicant's name as indicated on this application form.

Attachment A - Aerial Map

File name: Copy of Twin Lake Treatment Map.pdf

File Update Date: 04/17/2026 11:48:08

Attachment B - Applicant Compliance Review Form

File name:

NDDB_138063_Final_Determination_2026001056_Aquatic_Plant_Control_Fluridone_Diquat_ProcellaCor_1

File Update Date: 04/14/2026 14:14:06

[Applicant Compliance Information Form](#)
(DEEP-APP-002), if applicable.

Attachment C - Coastal Consistency Review Form

[Coastal Consistency Review Form](#)
(DEEP-APP-004), if applicable.

Attachment D - NDDB Determination Response

File name:

NDDB_138063_Final_Determination_2026001056_Aquatic_Plant_Control_Fluridone_Diquat_ProcellaCor_1

File Update Date: 04/14/2026 14:14:06

File name: complianceformpdf_2026 (1).pdf

File Update Date: 04/14/2026 13:18:38

A copy of the NDDB Determination response letter that has not expired, if applicable. Include a copy of any mitigation measures developed for this activity and approved by NDDB. Do not submit any NDDB Preliminary Site Assessments with your application. Be aware that you must renew your NDDB Determination if it expires before project work commences.

Attachment E - Verification of Notification to Local Inland Wetland Agency

Verification of Notification to Local Inland Wetland Agency:

Note:

To submit your Verification of Notification to Local Inland Wetland Agency, you must first complete all other portions of this application, select 'Save', then select 'Download PDF' from the bottom of this screen to download a copy of your application.

You must send a copy of your completed application to the local Inland Wetland Agency, and then return to this application page to upload your verification as Attachment E above.

You will then be able to submit your completed application for review.

The following are acceptable forms of Verification of Notification:

- copy of a certified mail receipt, or*
- a copy of the application stamped and dated as received by the local inland wetlands agency, or*
- an e-mail from the local inland wetlands agency verifying that this completed application has been received by such agency. If sending via email, you must first contact the local inland wetlands agency to verify that this method of delivery is acceptable.*

Refer to the [instructions](#)

Attachment F - Conservation or Preservation Restriction Information

Conservation or Preservation Restriction Information, if applicable.

Attachment G - DEEP Land Management Unit Authorization

DEEP Land Management Unit's Authorization letter for treatment of a state-owned or controlled waterbody and/or use of a state-owned boat launch, if applicable.

Attachment H - Approval under G.P. for Point Source Dischargers to Waters of the State from Application of Pesticides

File name: G.P. Not needed.pdf

File Update Date: 04/21/2026 11:20:04

Approval under the [General Permit for Point Source Discharges to Waters of the State from the Application of Pesticides](#)

, if applicable.

Attachment I - Department of Public Health comments

File name: DPH.pdf

File Update Date: 04/17/2026 12:10:31

Department of Public Health comments if the proposed treatment area(s) is located 200 ft. or less from a public water supply well or if the waterbody is located within a public water supply watershed and the application proposes the use of flumioxazin or triclopyr.

☐ Attachment J - Other Supporting Documents

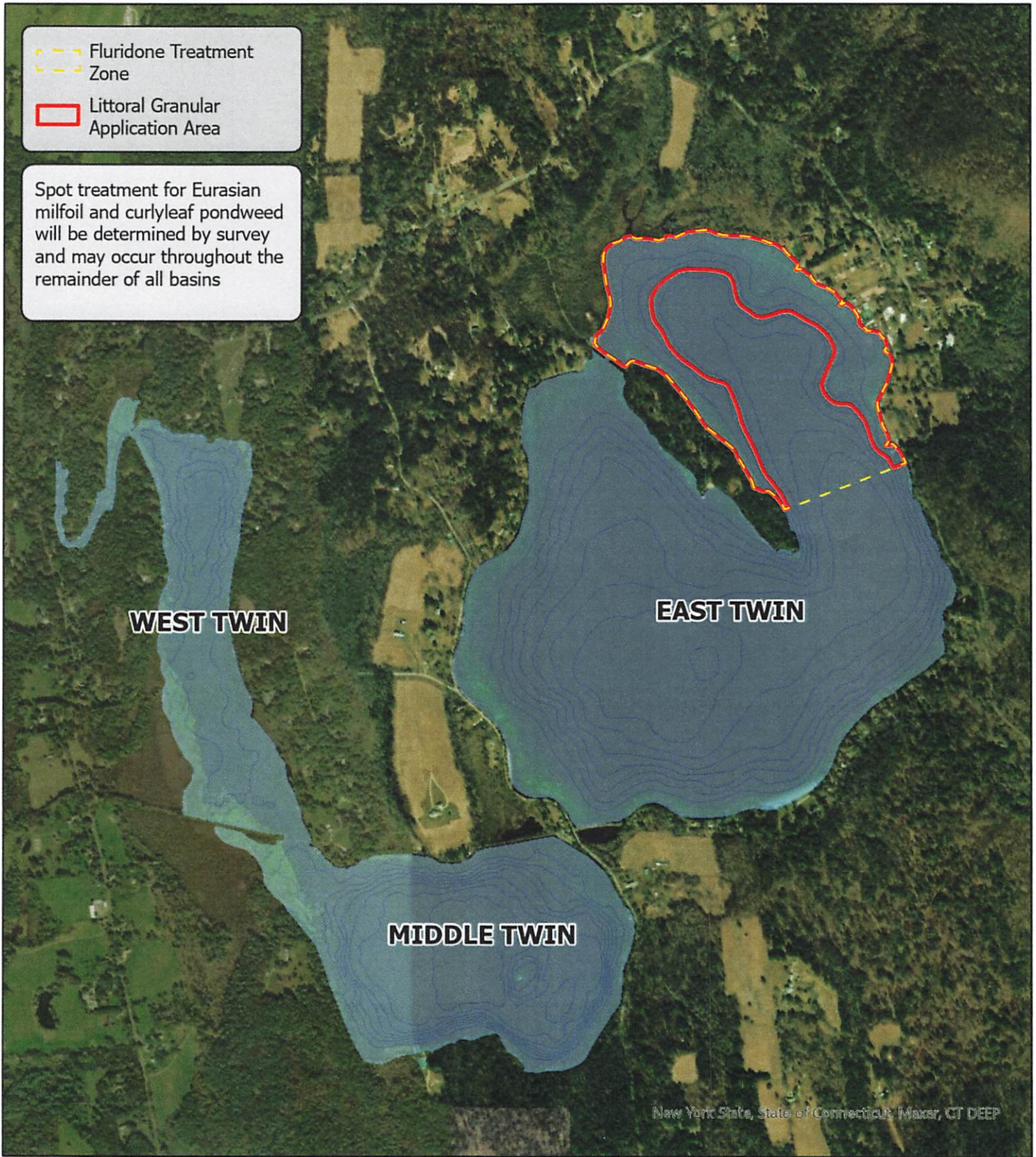
File name: complianceformpdf_2026 (1).pdf

File Update Date: 04/14/2026 13:18:38

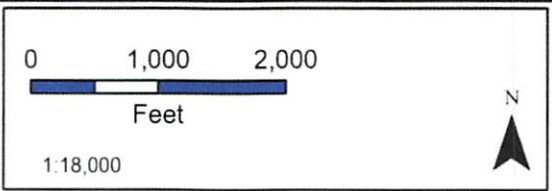
If you have additional documents or information to support your application that are not otherwise specified above, upload them here. This can include recent vegetation surveys, long term management plans, or other information specific to your site that could aid in the review of your application.

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Figure 1: Twin Lakes Treatment Map



TWIN LAKES
SALISBURY, CT
LITCHFIELD COUNTY



Map Date: 2/5/2025
Prepared by: D. Meringolo
Office: SHREWSBURY, MA



Connecticut
Department of Energy &
Environmental Protection



4/12/2026

Bethany Bowers
SOLITUDE LAKE MANAGEMENT, LLC
590 Lake St
Shrewsbury, MA 01545
bethany.bowers@solitudelake.com

Subject: Twin Lakes Invasive Plant Treatment
Filing #: 138063
NDDDB - New Determination Number: 202600106

Expiration Date: 12/31/2026

Location Description: Twin Lakes, Salisbury, CT

Instructions for submitting your survey information or other additional reporting requirements can be found at the end of this letter.

Project: Aquatic Plant Control Using at East Twin (Washining) Lake and West Twin (Washinee) Lake in Salisbury, Using:

- 1) Low-dose Sonar (Fluridone), Maintaining 3-5 ppb for 120 Days, from Mid-May until August or September, to Control *Hydrilla* in the North Cove of East Twin (See attached treatment area map);
- 2) Diquat to Spot Treat Curlyleaf Pondweed (*Potamogeton crispus*), Naiad, and *Hydrilla* that may be discovered outside of the above-mentioned North Cove treatment area;
- 3) ProcellaCOR (florpyrauxifen-benzyl) at 5.8 – 7.7 ppb to control Eurasian Milfoil (*Myriophyllum spicatum*).

Dear Bethany Bowers,

I have reviewed Natural Diversity Data Base (NDDDB) maps and files regarding the above referenced project. These waterbodies have many state listed plants, snails, and fish; each species and/or species group is addressed separately below.

If the protection measures set forth in this determination are implemented, I do not anticipate significant impacts to state listed species from this project.

State Listed Plants

Endangered

Potamogeton friesii (Fries' pondweed)

State Status: Endangered

Habitat: Deep waters of calcareous lakes and ponds.

Fruiting Jul - Sep.

Straight-leaved pondweed (*Potamogeton strictifolius*)

Habitat: Shallow waters of calcareous ponds.

Blooms July through August

Small bur-reed (*Sparganium natans*)

Habitat: Shallow waters of lakes, ponds, brooks, and springs (usually calcareous).

Blooms July through August

Threatened

Northern water-milfoil (*Myriophyllum sibiricum*)

Habitat: Alkaline waters of ponds, lakes, and streams.

Blooms June through September

Hard-stemmed bulrush (*Schoenoplectus acutus*)

Habitat: Calcareous wetlands and shallow ponds.

Blooms August through September

State Special Concern

Water-marigold (*Bidens beckii*)

Habitat: Circumneutral ponds and slow rivers.

Blooms August through September.

In addition to the above-listed plants, a large number of additional State listed plants have been documented in the Rich Fen Critical Habitat that is immediately west of West Twin Lake. These plants do not occur in the shallows of the lake and I believe any plants that may occur along the shoreline of the Rich Fen (or creeklets in the fen that connect to the the lake) are sufficiently protected by the 300-foot “no herbicide treatment” zone that borders the Rich Fen. Therefore, survey for the State listed plants in the Rich Fen is not required as one of the conditions of this NDDDB determination. Survey for these listed plants may be required if, in the future, a reduction in the width of the 300-ft no-treatment buffer to the Rich Fen or the elimination of the buffer is proposed, unless convincing scientific evidence is presented to show that a narrower no-treatment buffer is needed to protect Rich Fen plants from herbicide impacts.

State Listed Plant and Rich Fen Protection

The NDDDB is in receipt of the Northeast Aquatic Research (NEAR) report dated December 23, 2025, entitled “Twin Lakes 2025 Aquatic Plant Monitoring Report”. NDDDB accepts its findings and recommendations. Note that this determination is only for treatment year 2026 and ends December 31, 2026. A principal finding of the report is that the 2025 fluridone treatments may have extirpated the *Bidens beckii* population in East Twin Lake.

Protection Measures for State Listed Plants and Rich Fen

1. Solitude should coordinate with NEAR and insure NEAR is aware of the timing and locations of all herbicide applications, preferably in advance, but otherwise within not more than a few days of the herbicide applications. NEAR should also be provided with a copy of this determination.
2. NEAR must resurvey for *Bidens beckii* population within the low-dose fluridone treatment area periodically during and after 120-day treatment period, in order to determine if the population has truly been extirpated.
3. No pellet formulation fluridone should be applied in the area of the possibly extirpated *Bidens beckii* in the East Twin Lake.
4. In-lake concentrations of fluridone must be measured periodically within the area of the possibly extirpated *Bidens beckii* population in the fluridone treatment area. This data should be submitted to the NDDDB, together with the above-mentioned *Bidens beckii* impact assessment, by December 31, 2026.
5. A year-end report which includes treatment maps of locations of spot treatments of Diquat and ProcellaCOR and application rates must be prepared and submitted to NDDDB by December 31 of each treatment year.
6. Diquat may only be applied in 2026 outside of the 300-ft no-treatment buffers to mapped state listed plant, except for *Schoenoplectus acutus*, areas and the Rich Fen Critical Habitat (see attached 2025 no-

Diquat-treatment map), (see attached map) – a 30–50-foot no-treatment buffer is adequate for that species.

7. Experimenting with treating Curly-leaf in proximity to mapped locations of minor amounts of *Bidens beckii* in early spring, in order to determine whether Diquat affects *Bidens beckii* while the plants are mostly undeveloped, is permitted by this determination. This experiment must be scientifically robust, and the data and results must be submitted to NDDB by December 31 of each treatment year, so that we may consider allowing narrower no-Diquat-treatment buffers in the future.
8. No ProcellaCOR may be applied within the 300-ft no-treatment buffer to mapped locations of *Bidens beckii*, *Myriophyllum sibiricum*, and the Rich Fen (see attached 2025 no-ProcellaCOR-treatment map). The state listed *Potamogeton* species and *Schoenoplectus acutus* are considered to be un-affected by ProcellaCOR.
9. If ProcellaCOR is applied to the lakes in 2026, and you anticipate that you would like to reduce the width of the no-treatment buffers in the future, you should collect ProcellaCOR concentration data at appropriate intervals within 300 ft of the 2026 treatment areas, and submit that data to NDDB in order for us to consider narrower no-treatment buffers in the future. The No-ProcellaCOR-treatment buffer in the south cove of east Twin may also be eliminated in the future if NEAR becomes convinced, based on diligent survey, that *Myriophyllum sibiricum* no longer occurs at the historic location in the south cove of East Twin.
10. NEAR should search the entirety of East Twin, Middle, and West Twin Lakes for *Hydrilla*, including all areas of prior reported presence of state listed plants.
11. NEAR should continue to search for *Myriophyllum sibiricum* and *Potamogeton strictifolius*, any locations of *Bidens beckii* and not documented in 2023, 2024, and 2025, and expand the search for state listed *Potamogeton* species in Middle Twin Lake. Locations of any new occurrences of these or any other state listed plants that would generate an expansion of the no-treatment buffer area should be communicated to Solitude.
12. The results of the botanical field surveys must be submitted to the NDDB Program in a final report by December 31, 2026. The final report should include below-listed components.
 - a. Survey date(s) and duration.
 - b. Descriptions and representative photographs of the habitats occurring on the site.
 - c. List of component vascular plant species within the survey area (including scientific binomials).
 - d. Good quality photographs of any state listed plants found.
 - e. Data regarding population numbers or densities and/or area occupied by State-listed species.
 - f. Detailed maps of the area surveyed, including the survey routes and/or survey areas documented with a GPS unit and locations of state listed plants.

- g. Conservation strategies or protection plans that indicate how impacts may be avoided for all state listed plant species present on the site.
- h. Statement/résumé indicating the botanist's qualifications.

13. Genetic testing should be performed on material suspected or believed to be *Potamogeton strictifolius* and *Myriophyllum sibiricum*, any specimens that are indeterminate, and any suspected hybrids of these with other species. Permission to collect specimens of State-Endangered and -Threatened species must be obtained from the owner[s] of Twin Lakes. A duplicate pressed herbarium specimen should be made and preserved of any material that is sent off for genetic testing. Also, good-quality photographs including, if appropriate, close-up high-resolution images of morphologic the features on which the determination or tentative determination is based. These photos, together with a scan of the pressed specimen and a discussion of the basis for the determination should be included in the listed plant reports. Pressed specimens should be made available for inspection by the NDDDB botanist and eventually deposited at an official repository herbarium in Connecticut (e.g., CONN, at UCONN Storrs; see Index Herbariorum for a complete listing).

14. Herbicides shall be applied from an air boat, in order to eliminate fragmentation of invasive plants by boat propellers.

State Listed Freshwater Snail Protection

In 2015, 2020, and 2024, the Lake Association provided site survey reports prepared by Biodiversity, as required by previous NDDDB Determinations. Therefore, another survey that focuses on freshwater snails in these lakes will be required in 2028. **Ensure that your invertebrate biologist holds all required scientific collector's permits required to conduct this survey work.** The survey should be completed by an invertebrate biologist familiar with the habitat requirements of freshwater snails should conduct the surveys and submit a summary report, including the following information:

- Habitat descriptions
- Survey methodology and effort
- Site photos and maps of sites surveyed
- Invertebrate species list
- Conclusions and/or recommendations
- A statement/resume/CV giving the biologist's qualifications to do this work highlighting the invertebrate biologist's experience with surveying for snails
- Population viability assessment for state listed snails in the lake
- An assessment of any impacts of herbicide treatments on the snail community

- Distribution of the snails in the lake, including habitat suitability

State Listed Invertebrate Species Protection

According to our information the following additional state listed invertebrate species are associated with the Rich Fen Critical Habitat on the western side of West Twin (Washinee) Lake:

- Two-spotted skipper (*Euphyes bimacula*): Threatened Species
- Bog copper (*Lycaena epixanthe*): Species of Special Concern
- Eyed brown (*Satyrodes Eurydice*): Species of Special Concern
- Horse fly (*Tabanus fulvicallus*): Species of Special Concern
- Pitcher plant moth (*Exyra fax*): Species of Special Concern
- Sedge skipper (*Euphyes dion*): Species of Special Concern
- Ski-tailed emerald (*Somatochlora elongate*): Species of Special Concern
- Tabanid fly (*Merycomyia whitneyi*): Species of Special Concern
- Tabanid fly (*Atylotus ohioensis*): Species of Special Concern

No herbicide treatments should occur in the Rich Fen Critical Habitat that occurs along the western edge of West Twin (Washinee Lake). Maintaining a 300-foot buffer around this fen is required in order to protect state listed invertebrate species listed above.

State Listed Fish Protection

According to our information, there are records for State Special Concern *Notropis bifrenatus* (bridle shiner) from the Twin Lakes. Please be advised that a DEEP Fisheries Biologist will review the permit applications you may submit to DEEP regulatory programs to determine if your project could adversely impact slimy sculpin. DEEP Fisheries Biologists are routinely involved in pre-application consultations with regulatory staff and applicants in order to identify potential fisheries issues and work with applicants to mitigate negative effects, including to endangered species. If you have not already talked with a Fisheries Biologist about your project, you may contact the Permit Analyst assigned to process your application for further information, including the contact information for the Fisheries Biologist assigned to review your application. The fisheries consultation form can be downloaded from

here: [google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwjqt_ucj_2LAXVRlokEHU8QB_K0QFnoECBQQAQ&url=https%3A%2F%2Fportal.ct.gov%2F-%2Fmedia%2Fdeep%2Fpermits_and_licenses%2Fland_water_permits%2Ffisheries_damconsultationappdoc.doc&usq=AOvVaw3jvW-uH38UfO-kcTbUfn8c&opi=89978449](https://portal.ct.gov/deep/permits/licenses/indian_water_permits/fisheries_damconsultationappdoc.doc)

This determination is valid through the end of the 2026 calendar year. Please submit an updated NDDDB Request for Review if the scope of the proposed work changes or if work has not begun by **December 31, 2026**.

Your submission information indicates that your project requires a state permit, license, registration, or authorization, or utilizes state funding or involves state agency action. This NDDDB - New determination may be utilized to fulfill the Endangered and Threatened Species requirements for state-issued permit applications, licenses, registration submissions, and authorizations.

Please be aware of the following limitations and conditions:

Natural Diversity Database information includes all information regarding listed species available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, land owners, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as enhance existing data. Such new information is incorporated into the Database and accessed through the ezFile portal as it becomes available. New information may result in additional review, and new or modified restrictions or conditions may be necessary to remain in compliance with certain state permits.

- During your work listed species may be encountered on site. A report must be submitted by the observer to the Natural Diversity Database promptly and additional review and restrictions or conditions may be necessary to remain in compliance with certain state permits. Please fill out the [appropriate survey form](#) and follow the instructions for submittal.
- Your project involves the state permit application process or other state involvement, including state funding or state agency actions; please note that consultations with your permit analyst or the agency may result in additional requirements. In this situation, additional evaluation of the proposal by the DEEP Wildlife Division may be necessary and additional information, including but not limited to species-specific site surveys, may be required. Any additional review may result in specific restrictions or conditions relating to listed species that may be found at or in the vicinity of the site.
- If your project involves preparing an Environmental Impact Assessment, this NDDDB consultation and determination should not be substituted for biological field surveys assessing on-site habitat and species presence.
- The NDDDB - New determination for the Twin Lakes Invasive Plant Treatment as described in the submitted information and summarized at the end of this document is valid until 4/12/2028. This determination applies only to the project as described in the submission and summarized at the end of this letter. Please re-submit an updated Request for Review if the project's scope of work and/or timeframe changes, including if work has not begun by 12/31/2026.

Additional reporting requirements indicated above have been requested. Include the Project Name Twin Lakes Invasive Plant Treatment, Filing # 138063, and Determination Number 202600106 on all correspondence. Please note that, as stated above, survey data indicating the presence of listed species not described in this letter may necessitate additional review and restrictions or conditions. Forward additional reporting requirements to each of the following two addresses:

1. William.Moorhead@ct.gov
2. deep.nddbrequest@ct.gov

If you have further questions, please contact me at the following:

William Moorhead

CT DEEP Bureau of Natural Resources
Wildlife Division
Natural Diversity Database
79 Elm Street
Hartford, CT 06106-5127

William.Moorhead@ct.gov

Please reference Filing # 138063 the Determination Number 202600106 when you e-mail or write. Thank you for consulting the Natural Diversity Data Base.

Sincerely,

A handwritten signature in blue ink that reads "William Moorhead". The signature is written in a cursive style with a small "m" at the end.

William Moorhead
Wildlife Division- Natural Diversity Data Base
79 Elm Street
Hartford, CT 06106-5127
William.Moorhead@ct.gov

attachments

Application Details:

Project involves federal funds or federal permit:	No
Project involves state funds, state agency action, or relates to CEPA request:	No
Project requires state permit, license, registration, or authorization:	Yes
DEEP enforcement action related to project:	
Project Type:	Aquatic/Wetland Vegetation Control
Project Sub-type:	Aquatic/Wetland Vegetation Removal- Any Herbicide
Project Name:	Twin Lakes Invasive Plant Treatment
Project Description:	Aquatic herbicide application to manage non-native Hydrilla, Eurasian watermilfoil and Curlyleaf pondweed



Connecticut Department of
Energy & Environmental Protection

Applicant Compliance Information

DEEP ONLY

App. No. _____
Co./Ind. No. _____

Applicant Name: SOLitude Lake Management

Mailing Address: 590 Lake Street

City/Town: Shrewsbury

State: MA

Zip Code: 01545

Business Phone: 508-865-1000

ext.:

Contact Person: Bethany Bowers

Phone: 508-826-5490 ext.

*E-mail: bethany.bowers@solitudelake.com

If you answer **yes** to any of the questions below, you must complete the Table of Enforcement Actions on the reverse side of this sheet as directed in the instructions for your permit application.

- A. During the five years immediately preceding submission of this application, has the applicant been convicted in any jurisdiction of a criminal violation of any environmental law?

Yes No

- B. During the five years immediately preceding submission of this application, has a civil penalty been imposed upon the applicant in any state, including Connecticut, or federal judicial proceeding for any violation of an environmental law?

Yes No

- C. During the five years immediately preceding submission of this application, has a civil penalty exceeding five thousand dollars been imposed on the applicant in any state, including Connecticut, or federal administrative proceeding for any violation of an environmental law?

Yes No

- D. During the five years immediately preceding submission of this application, has any state, including Connecticut, or federal court issued any order or entered any judgement to the applicant concerning a violation of any environmental law?

Yes No

- E. During the five years immediately preceding submission of this application, has any state, including Connecticut, or federal administrative agency issued any order to the applicant concerning a violation of any environmental law?

Yes No

Table of Enforcement Actions

(1) Type of Action	(2a) Date Commenced	(2b) Date Terminated	(3) Jurisdiction	(4) Case/Docket/ Order No.	(5) Description of Violation

Check the box if additional sheets are attached. Copies of this form may be duplicated for additional space.



**Connecticut Department of
Energy & Environmental Protection**

Applicant Compliance Information

DEEP ONLY

App. No. _____

Co./Ind. No. _____

Applicant Name: SOLitude Lake Management

Mailing Address: 590 Lake Street

City/Town: Shrewsbury

State: MA

Zip Code: 01545

Business Phone: 508-865-1000

ext.:

Contact Person: Bethany Bowers

Phone: 508-826-5490 ext.

*E-mail: bethany.bowers@solitudelake.com

If you answer *yes* to any of the questions below, you must complete the Table of Enforcement Actions on the reverse side of this sheet as directed in the instructions for your permit application.

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Yes No

- C. During the five years immediately preceding submission of this application, has a civil penalty exceeding five thousand dollars been imposed on the applicant in any state, including Connecticut, or federal administrative proceeding for any violation of an environmental law?

Yes No

- D. During the five years immediately preceding submission of this application, has any state, including Connecticut, or federal court issued any order or entered any judgement to the applicant concerning a violation of any environmental law?

Yes No

- E. During the five years immediately preceding submission of this application, has any state, including Connecticut, or federal administrative agency issued any order to the applicant concerning a violation of any environmental law?

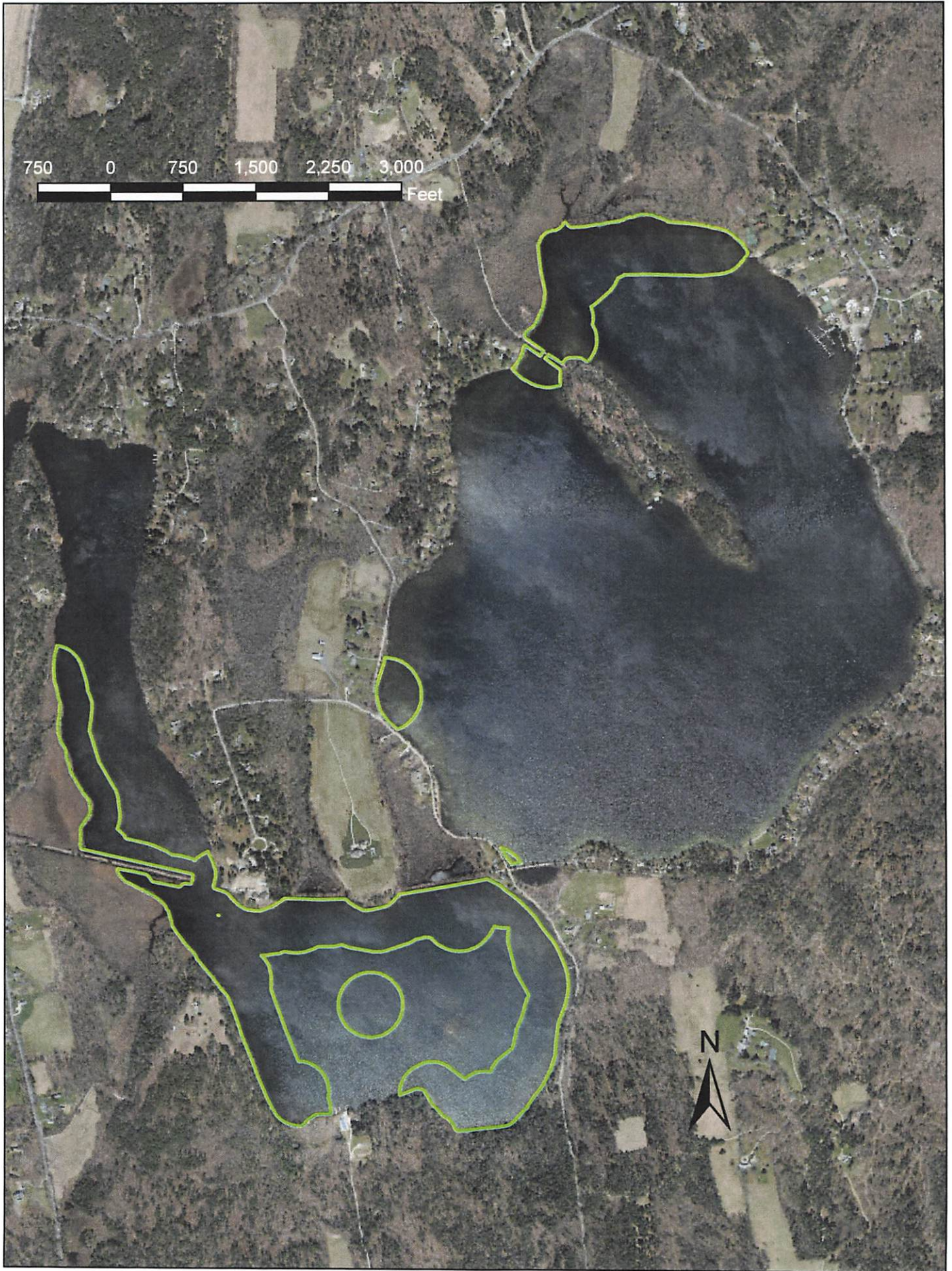
Yes No

Table of Enforcement Actions

(1) Type of Action	(2a) Date Commenced	(2b) Date Terminated	(3) Jurisdiction	(4) Case/Docket/ Order No.	(5) Description of Violation

Check the box if additional sheets are attached. Copies of this form may be duplicated for additional space.

Green Polygons = No Treatment with Diquat Areas in 2025



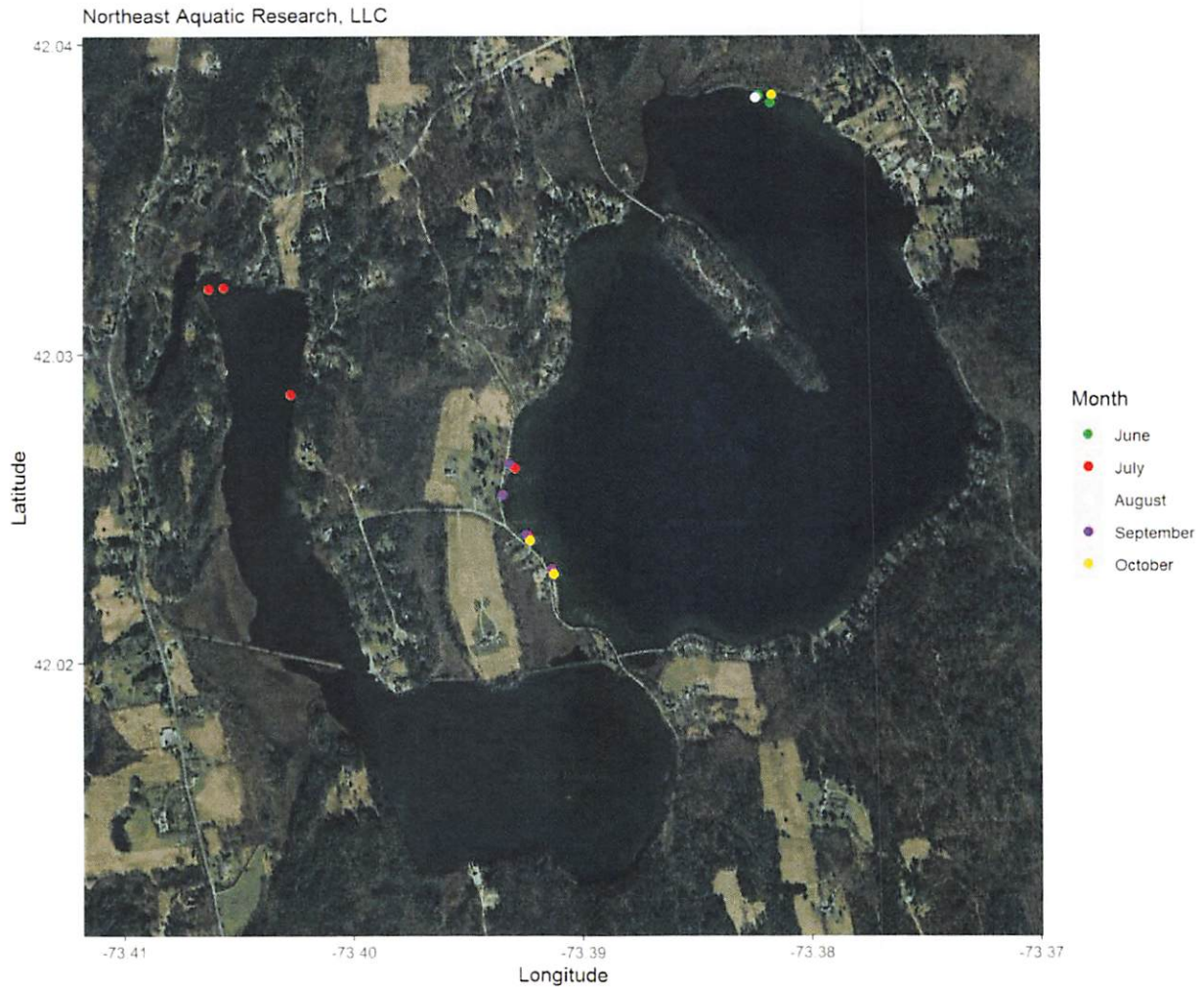
Red Polygons = No Treatment with ProcellaCOR Areas in 2025



Hard-Stem Bulrush (*Schoenoplectus acutus*)

Hard-stem Bulrush was found in the same locations as the last two years (**Map 15**). In East Twin, there are large cluster of plants along the northeastern shoreline and small beds scattered along the western shoreline. In West Twin, there are three small beds in the northern section of the lake. Hard-stem Bulrush appeared to be unaffected by the Fluridone.

Map 15. Locations of Hard-stem Bulrush in 2025.



DPH Comments no longer required for permit submission.

Approval under G.P. for Point Source Dischargers to Waters of the State from Application of Pesticides - NOT NEEDED.