



P.O. Box 99 • Ray Brook, New York 12977 •

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Division of Regulatory Programs

**APPLICATION FOR USE OF
PESTICIDES TO CONTROL
AQUATIC PLANTS**

Supplemental Information Request

Applicability: This Supplemental Information Request, together with a General Information Request, applies to the use of pesticides (i.e. fluridone, triclopyr, 2,4-D, etc.) to control aquatic nuisance plants subject to Agency permit jurisdiction.

Instructions: This Supplemental Information Request must be submitted with the General Information Request. Please answer all of the questions in each numbered section and complete all required plans, reports and other attachments. Type or print clearly in ink. If you need assistance answering the questions, please call the Agency at the above telephone number. **Mail three (3) copies of your application and required attachments to the Agency at the above address.** A site visit by Agency staff will be required. The Adirondack Park Agency Act provides that the time period for the review of this project will not begin to run until the Agency determines that the application is complete. The proposed project may not be undertaken until an Agency permit has been issued.

1. Project Sponsor (as shown on the General Information Request):

Name:

2. Technical Advisor or Consultant

Name:

Name of Company:

Mailing Address:

Telephone Number: ()

FAX:

APA Form August 2007

3. Pesticide Applicator

Name of Pesticide Business/Agency: Mailing Address:	Business/Agency Registration Number:
Name of Certified Applicator: Telephone Number:	Certified Applicator License Number: Expiration Date: License Category:

4. Water Body Information

Name of water body:
Who owns the lake bottom? (Submit a copy of deed to lake bottom, if available)
Total size of water body in acres:
Mean depth : Maximum depth: Mean High Water Elevation (if known):
Describe in detail the number and location of all inlet(s) and outlet(s) of the lake and any known maximum flow(s). Is the lake controlled by a dam? If yes, state who owns and who maintains the dam. Provide details of outflow control devices: What is the hydraulic residence time of the water body?

Is there a public boat launch? Yes _____ No _____

Is there a public bathing facility? Yes _____ No _____

5. Lake Management Plan

- a) Name the organization responsible for lake management and document its authority to propose activities with the consent of the riparian owners.
- b) Describe what steps the Lake Association has taken to develop a written watershed management plan or comprehensive aquatic plant management control strategy for the water body. If such a plan or strategy has been developed, please provide a copy to the Agency. If no such plan exists provide a comprehensive management plan for controlling nuisance plant species in the water body.
- c) List the objectives of lake management in order of priority (i.e. fishing, swimming, boating, etc.) Provide a scaled map locating the surface uses of the lake.
- d) Describe chronologically past lake management and aquatic plant control efforts.
- e) Provide a list of all past aquatic plant monitoring reports, including date prepared and name of individual/organization who prepared the report. Provide a copy of report(s) if not previously submitted to the Agency.

6. Lake Characteristics and Wetland Communities

- a) Provide an inventory and scaled map of current aquatic plant communities associated with the lake. The aquatic plant monitoring plan shall be completed by a certified lake manager or qualified aquatic consultant and shall include monitoring consistent with the rake toss methodology developed by Cornell University and shall include monitoring requirements developed by NYS DEC for Tier III waterbodies. (See Appendix A for additional information concerning rake toss methodology and monitoring requirements for Tier III waterbodies.)
- b) Describe the current lake problems including nuisance aquatic plants and provide a scaled map (same scale as aquatic plant monitoring plan) depicting the location of problem areas.
- c) List and describe the location of any known threatened, rare or endangered species. Consult with the Natural Heritage Program, 625 Broadway, 5th Floor, Albany, New York, 12233-4757,

518-402-8935. Are any of these species found in or adjacent to the treatment area(s)? If so, show their location(s) on the inventory map required in 6(a) above.

- d) Provide a scaled bathymetric map of the lake including a 5 foot depth contour and show location of all public bathing beaches, boat launches, potable water supply intakes(public and private), properties requesting no treatment, hospitals, schools or other areas sensitive to treatment or required use restrictions and treatment notifications per EPA label instructions or NYS DEC requirements, etc.
- e) Provide physical and chemical characteristics of the lake. (i.e. CSLAP report, etc.)
- f) Describe fisheries of the lake including species, relative abundance, and date of last survey. Provide copies of all past fisheries surveys.

7. Detailed Project Description

- a) Provide a scaled map of the treatment area(s), including but not limited to, the following features of the treatment area(s):
 - i. Length of shoreline (in feet) in proposed treatment area(s)
 - ii. Width of each proposed treatment area(s) as measured outward from shore
 - iii. Bathymetric mapping of proposed treatment area(s) using 2 foot contours
 - iv. Location of all inlet and outlet streams
- b) What is the total area in acres to be treated with the pesticide? What is the total volume of water to be treated in the treatment area(s)?
- c) Attach a Property Boundary Map which may be either a labeled and scaled copy of a survey map, deed plot or current real property tax map clearly showing the shoreline property boundaries and labeled with the tax map number(s).
- d) Explain how and where the pesticide(s) will be stored, mixed, rinsed and method for disposal of pesticide containers and used equipment.
- e) Submit a complete and legible copy of the proposed pesticide label(s) and application instructions.
- f) Based on the registered label directions and licensed pesticide applicator instructions for the proposed treatment area(s), complete the following for each proposed pesticide:
 - i. Trade name of Pesticide
 - ii. Common Chemical name
 - iii. Active ingredient
 - iv. Percent active ingredient
 - v. Inert ingredients (if available)

- vi. EPA registration number
- vii. Carrying Agent or Vehicle
- viii. Mix Ratio
- ix. Application Rate/acre
- x. Number of applications
- xi. Total pesticide per application
- xii. Label restrictions (i.e. no application within ¼ mile of potable water intake)

- g) What concentration will be maintained in the treatment area and for what duration? What is maximum application rate allowed under the label?
- h) Specify the equipment to be used to apply the pesticide and indicate provisions to control drift of pesticide to non-target areas.
- i) Explain how pesticide concentrations will be monitored after initial treatment. Will boosting be required? At what levels and for what duration?
- j) What other aquatic plant species, besides the target species, are present in the treatment area and are susceptible at the concentrations and duration proposed?
- k) Explain in detail your plan to monitor for non-target species impacts inside and outside the treatment area.
- l) Identify all water use restrictions (i.e. water supply, swimming restrictions, etc.) associated with the pesticide and provide details on how these restrictions will be applied and for what durations during the treatment period.
- m) What is the estimated cost for the proposed treatment(s)? How will the project be funded?

8. Partial Lake Treatment

- a) Is a partial lake treatment being proposed?
 No
 Yes
- b) If Yes, how large an area (in acres) is proposed to be treated?
- c) Provide details on sequestering curtains, including but not limited to the material(s) to be used, how the curtains will be suspended in the water column, how they will be anchored or attached to shore, and any cutout requirements to allow for boat traffic ingress/egress.

- d) What is the water exchange rate for the proposed treatment area(s) before and after the installation of the sequestering curtains? Explain how the exchange rate was determined (i.e. rhodamine dye test, etc.)?

9. Proposed Treatment Dates

Equipment:

- Two metal rake heads
(handles cut as close to head as possible) wired together
- Woven nylon line, at least 40 feet

- a) Estimated Start of Treatment : _____
b) Estimated Treatment Completion Date: _____

10. Government Approvals

Provide a complete copy of any current NYSDEC Article 15 Part 327/328 Aquatic Pesticide permit or any other permits required or any Town permits and/or a complete copy of all application materials submitted for such approvals.

APPENDIX A

Summary of the Rake Toss Methodology

Sampling Method:

- Go to sample point and record GPS coordinates on Aquatic Plant Sampling form
- Toss rake length of line
- Retrieve rake **slowly** into boat
- Estimate overall plant abundance using Cornell abundance scale (see abundance table below)

- Remove plants from rake tines
Separate plants into individual piles corresponding to individual plant types (species)
- **Tier III:** Estimate % abundance of all species using Cornell abundance scale
- Record plant abundance on Aquatic Plant Sampling form
- Make sure all plants are removed from tines of rake
- Go to next sampling point and repeat process

Cornell Plant Abundance Scale:



Z = zero plants = no plants on rake
 T = trace plants = fingerful on rake
 S = sparse plants = handful on rake
 M = medium plants = rakeful of plants
 D = dense plants = difficult to bring into boat
 This methodology was adapted from the U.S. Army Corps of Engineers and further developed by Paul Lord and Bob Johnson from Cornell University

Pesticides Program Monitoring Requirements
Tier III Lakes

<u>Method:</u>	Rake Toss- Two Tosses Per Site
<u>Frequency:</u>	One Sampling Event Pre-Application (preferably at time when target plant grows most extensively) One Sampling Event Post-Application (at time when target plant grows most extensively) Additional Sampling Events Post-Application if Target Species Not Adequately Controlled or Non-Target Impacts in YOT
<u>Number of Sampling Sites:</u>	Lakes < 100 hectares: Larger of 50 Sites or 1 Site/hectare of Littoral Zone (portion of lake less than 10-15 feet deep) Lakes > 100 hectares: Larger of 50-100 Sites or 1 Site/hectare of Littoral Zone (portion of lake less than 10-15 feet deep)
<u>Site Locations:</u>	Equally Distributed Throughout Littoral Zone (chosen from 100m x 100m grid overlay on GIS coverage of lake) 50% of Sites in Treatment Area (spot treatment)
<u>Site Identification:</u>	GPS Coordinates, UTM NAD27
<u>Site Mapping:</u>	Map Generate from Software-ArcView, MapInfo, DeLorme Xmap/3D TopoQuads,etc.
<u>Plant Identification:</u>	Target, Exotic, RTE Plants Identified to Species Level All Other Plants Identified to Genus Level
<u>Plant Abundance:</u>	Percent Abundance of All Species Overall Abundance Quantified by Cornell/US Army Corps Scale: Z = no plants T = trace plants = fingerful on rake S = sparse plants = handful on rake M = medium plants = rakeful of plants D = dense plants = difficult to bring into boat
<u>Archiving:</u>	Digital Photographs of All Plants Voucher Specimen for Target, Exotic, RTE Species
<u>Bookkeeping:</u>	Plant IDs and Abundance Provided in Electronic Spreadsheet/ Database
<u>Reporting:</u>	Annual Report- Summary of Methodology and Data Tables Report Due by December 31 st of Treatment Year