

Aquatic Engineering, Inc.

Advancing the Science of Assessment, Management and Rehabilitation of our Aquatic Resources!

2002 Montello Lake Individual Aquatic Plant Management Plan and Permit Application

Prepared for:

*Wisconsin Department of Natural Resources
Scott Provost
427 East Tower Drive
Suite 100
Wautoma, WI 54982-6927*

May 24, 2002

Prepared by:

Aquatic Engineering
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2002 Montello Lake Aquatic Plant Management Program and Plan

Phase One

Aquatic Engineering's Montello Lake Aquatic Plant Management (APM) program has four phases. In phase one, an aquatic plant survey and feasibility study is completed. With this, our initial site investigation takes place for each of the sites. During our initial Site Investigation, aquatic plants will be collected and identified. Herbicide treatments have been chosen as part of management practices and target plant species have been determined to be Milfoil spp. (*Myriophyllum spp.*), Coontail (*Ceratophyllum demersum*), Pondweed spp. (*Potamogeton spp.*) Algae spp. and Duckweed spp. Our ecologists have selected the herbicides Reward, Aquathol K and Chelated Copper products to control the plants in question. Now we know exactly what plant species and areas will be treated so that we can acquire the necessary permits through the Department of Natural Resources for the chosen sites and herbicides and also for the given nuisance plant species. Upon completion and award of the permit, we will compile a management plan for the project.

Phase Two

The second phase of our program is the implementation of the management plan. First, a second survey and site investigation is conducted for the chosen management areas to document any changes since the initial survey. Second, the management method is chosen for the specific day's environmental conditions. Finally, since herbicides have been chosen as the management tool, the AHAS is then calibrated and the final herbicide selection and mixing is determined and completed. Based on the given environmental conditions, the application method is chosen for the target plant specie(s). With all the necessary documentation completed and the herbicide selection and planning for the specific management plan taken care of, the herbicide applications take place.

Phase Three

During the third phase of the program the Management Plan Survey(s) are completed. A follow up site investigation(s) will take place, and if necessary, follow up management tools may be utilized based specifically on the management plan and the specific site characteristics. Where herbicide program requirements mandate, a water sample may be collected and analyzed for herbicide concentrations within the treatment area. This immunoassay test allows our ecologists to modify herbicide applications based on quantifiable information.

Phase Four

The fourth and final phase is the final analysis and the preparation of the final report. This includes a final site investigation and survey yielding the results of the season's management practices. If necessary, based on project specific requirements, plant sample(s) may be collected and analyzed for the effects of the herbicides on their plant tissues. This post-treatment biochemical sampling test allows our staff ecologists to monitor the effectiveness of our herbicide treatments. With this information, a final report can be completed and distributed.

Ecological and Waterworks Services

We perform Assessment, Management & Rehabilitation services for the following:

- ♦ Aquatic Plants
- ♦ Biological and Ecological Resources
- ♦ Contaminated Diving and Hazardous Material Management
- ♦ Erosion & Drainage
- ♦ Exotic & Invasive Species
- ♦ Fisheries
- ♦ Habitats
- ♦ Lakes and Ponds
- ♦ Rivers, Creeks and Streams
- ♦ Species Populations
- ♦ Threatened and Endangered Species
- ♦ Water Quality
- ♦ Wetland Conservations

We also provide the following services:

- ♦ Aquascaping
- ♦ Aquatic Bathymetry and Hydrographic Surveying Services
- ♦ Cultural Resource Site Evaluation
- ♦ Dredging Consultations
- ♦ Expert Witness Testimony
- ♦ Lakescaping & Riverscaping
- ♦ On Site Chemical Analysis
- ♦ Review of State, Federal and Prior Environmental Services and Documents
- ♦ Sediment Composition Sampling and Testing
- ♦ Underwater Photography and Videography



Member
Wisconsin

PERMIT APPLICATION FOR CHEMICAL
 AQUATIC PLANT CONTROL
 Form 3200-4 Rev.3-99

DNR USE ONLY
ID Number
County Code
Waterbody Number

NOTE: Use of this form is required by the Department for any application field pursuant s. 281.17(2), Wis. Stats. And Chapter NR 107, Wis. Adm. Code. The Department will not consider your application unless you complete and submit this application form. Personally identifiable information requested on this form is not likely to be used for purposes, other than that for which it is originally being collected.

SECTION I. APPLICATION DATA

Name of Permit Applicant. (Also indicate names and addresses of all individuals, associations, communities or town sanitary districts sponsoring treatment. Attach additional sheets if necessary.

Home Address	Name See Attached	Lake Address	Name See Attached
	Street or Route		Street or Route
	City, State, Zip		City, State, Zip
	Telephone Number (include area code)		Telephone Number (include area code)

SECTION II. LOCATION OF PLANT CONTROL		
Waterbody To Be Treated (waterbody where treatment area is located) Montello Lake	Lake Surface Area 286	Estimated Surface Area That Is 10 Feet or Less in Depth 200 Acres
County Marquette	Names of Adjacent Riparian Property Owners (use additional sheets if necessary) 1. 2. 3.	
Township Range Section 15 9 & 10 8		
Name of Applicator or Firm Aquatic Engineering Street or Route Post Office Box 3634 City, State, Zip Code La Crosse, WI 54602-3634 Telephone Number (include area code) Home: 888-801-1725 Business: 608-781-8770		
Applicator Certification Number for Category 5, Aquatic Pesticide Application 95 060133	DNR USE ONLY	Date Verified w/DATCP Certification Expiration
Business Location License Number (if applicable) 93-010577-008121		Date Verified w/ DATCP Expiration Date
Restricted Use Pesticide License Number		Date Verified w/DATCP Expiration Date
		Name of Lake Property Owners' Association Representative or Lake District Representative (if none, please indicate) Montello Lake Inland P & R District-Jim Neeb

Area(s) proposed for Control (Note details in permit cover letter for final permitted sizes of treatment areas.)

- A. Shore Length 250 Ft. x Distance From Shore 150 ft. + 43,560 ft = 0.86 Estimated Acreage. Average Depth _____ ft.
 - B. Shore Length _____ Ft. x Distance From Shore _____ ft. + 43,560 ft = _____ Estimated Acreage. Average Depth _____ ft.
 - C. Shore Length _____ Ft. x Distance From Shore _____ ft. + 43,560 ft = _____ Estimated Acreage. Average Depth _____ ft.
 - D. Shore Length _____ Ft. x Distance From Shore _____ ft. + 43,560 ft = _____ Estimated Acreage. Average Depth _____ ft.
 - E. Shore Length _____ Ft. x Distance From Shore _____ ft. + 43,560 ft = _____ Estimated Acreage. Average Depth _____ ft.
- Total Estimated Acreage 0.86

If the estimated acreage is greater than 10 acres, or is greater than 10 percent of the estimated are 10 feet or less in depth in Section II, please complete and attach Form 3200-4A, Large Scale Treatment Worksheet. Private pond treatments are exempted from this requirement.

Is this area within or adjacent to a sensitive area designated by the Department of Natural Resources?
 Yes No

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SECTION I. APPLICATION DATA

Name of Permit Applicant. (Also indicate names and addresses of all individuals, associations, communities or town sanitary districts sponsoring treatment. Attach additional sheets if necessary.

Home Address	Name Janet Gyland	Lake Address	Name Janet Gyland Phase Client Number 12
	Street or Route 103 Bayview Court		Street or Route 103 Bayview Court
	City, State, Zip Montello, WI 53949		City, State, Zip Montello, WI 53949
	Telephone Number (include area code) 608-297-8038		Telephone Number (include area code)

SECTION II. LOCATION OF PLANT CONTROL

Waterbody To Be Treated (waterbody where treatment area is located) Montello Lake	Lake Surface Area 286	Estimated Surface Area That is 10 Feet or Less in Depth 200 Acres
County Marquette	Names of Adjacent Riparian Property Owners (use additional sheets if necessary)	
Township Range Section 15 9 & 10 8	1. Koldziej Residence	
Name of Applicator or Firm Aquatic Engineering	2. Arriens Residence	
Street or Route Post Office Box 3634	3.	
City, State, Zip Code La Crosse, WI 54602-3634	Name of Lake Property Owners' Association Representative or Lake District Representative (if none, please indicate)	
Telephone Number (include area code) Home: 608-526-6416 Business: 608-781-8771	Montello Lake Inland P & R District-Jim Neeb	
Applicator Certification Number for Category 5, Aquatic Pesticide Application 95 060133	DNR USE ONLY	Date Verified w/DATCP Certification Expiration
Business Location License Number (if applicable) 93-010577-008121		Date Verified w/ DATCP Expiration Date
Restricted Use Pesticide License Number		Date Verified w/DATCP Expiration Date

Area(s) proposed for Control (Note details in permit cover letter for final permitted sizes of treatment areas.)

- A. Shore Length 50 Ft. x Distance From Shore 150 ft. + 43,560 ft = 0.17 Estimated Acreage. Average Depth 4 ft.
- B. Shore Length _____ Ft. x Distance From Shore _____ ft. + 43,560 ft = _____ Estimated Acreage. Average Depth _____ ft.
- C. Shore Length _____ Ft. x Distance From Shore _____ ft. + 43,560 ft = _____ Estimated Acreage. Average Depth _____ ft.
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Total Estimated Acreage 0.17

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Yes No

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SECTION I. APPLICATION DATA

Name of Permit Applicant. (Also indicate names and addresses of all individuals, associations, communities or town sanitary districts sponsoring treatment. Attach additional sheets if necessary.)

Home Address	Name Patricia A Johnson	Lake Address	Name Patricia A Johnson Phase Client Number 16
	Street or Route 91 Bayview Ct.		Street or Route 91 Bayview Court
	City, State, Zip Montello, WI 53949		City, State, Zip Montello, WI 53949
	Telephone Number (include area code) 608-297-8077		Telephone Number (include area code)

SECTION II. LOCATION OF PLANT CONTROL

Waterbody To Be Treated (waterbody where treatment area is located) Montello Lake	Lake Surface Area 286	Estimated Surface Area That Is 10 Feet or Less in Depth 200 Acres
County Marquette	Names of Adjacent Riparian Property Owners (use additional sheets if necessary)	
Township Range Section 15 9 & 10 8	1. Residence	
Name of Applicator or Firm Aquatic Engineering	2. Koldziej Residence	
Street or Route Post Office Box 3634	3.	
City, State, Zip Code La Crosse, WI 54602-3634	Name of Lake Property Owners' Association Representative or Lake District Representative (if none, please indicate)	
Telephone Number (include area code) Home: 608-526-6416 Business: 608-781-8771	Montello Lake Inland P & R District-Jim Neeb	
Applicator Certification Number for Category 5, Aquatic Pesticide Application 95 060133	DNR USE ONLY	Date Verified w/DATCP Certification Expiration
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SECTION I. APPLICATION DATA

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Home Address	Name Rick A & Barbara A Menzel	Lake Address	Name Rick A & Barbara A Menzel	Phase	Client Number 10
	Street or Route 17 W464 Earl Court		Street or Route 83 Cottage Court		
	City, State, Zip Darien, IL 60561		City, State, Zip Montello, WI 53949		
	Telephone Number (include area code) 630852-7321		Telephone Number (include area code)		

SECTION II. LOCATION OF PLANT CONTROL					
Waterbody To Be Treated (waterbody where treatment area is located) Montello Lake		Lake Surface Area 286	Estimated Surface Area That Is 10 Feet or Less in Depth 200 Acres		
County Marquette		Names of Adjacent Riparian Property Owners (use additional sheets if necessary)			
Township 15	Range 9 & 10	Section 8	1. Stec Residence		
Name of Applicator or Firm Aquatic Engineering		2. Singles Residence			
Street or Route Post Office Box 3634		3.			
City, State, Zip Code La Crosse, WI 54602-3634		Name of Lake Property Owners' Association Representative or Lake District Representative (if none, please indicate)			
Telephone Number (include area code) Home: 608-526-6416 Business: 608-781-8771		Montello Lake Inland P & R District-Jim Neeb			
Applicator Certification Number for Category 5, Aquatic Pesticide Application 95 060133		DNR USE ONLY	Date Verified w/DATCP Certification Expiration		
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Home Address	Name James J & Cynthia Neeb	Lake Address	Name James J & Cynthia Neeb Phase Client Number 14
	Street or Route 212 Carriage Road		Street or Route 212 Carriage Road
	City, State, Zip Montello, WI 53949		City, State, Zip Montello, WI 53949
	Telephone Number (include area code) 608-297-9207		Telephone Number (include area code)

SECTION II. LOCATION OF PLANT CONTROL

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County Marquette	Names of Adjacent Riparian Property Owners (use additional sheets if necessary)	
Township Range Section 15 9 & 10 8	1. Benzel Residence	
Name of Applicator or Firm Aquatic Engineering	2. Wishman Residence	
Street or Route Post Office Box 3634	3.	
City, State, Zip Code La Crosse, WI 54602-3634	Name of Lake Property Owners' Association Representative or Lake District Representative (if none, please indicate)	
Telephone Number (include area code) Home: 608-526-6416 Business: 608-781-8771	Montello Lake Inland P & R District-Jim Neeb	
Applicator Certification Number for Category 5, Aquatic Pesticide Application 95 060133	DNR USE ONLY	Date Verified w/DATCP Certification Expiration
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Name of Permit Applicant. (Also indicate names and addresses of all individuals, associations, communities or town sanitary districts sponsoring treatment. Attach additional sheets if necessary.

Home Address	Name Larry & Lynn Theroux	Lake Address	Name Larry & Lynn Theroux Phase Client Number 5
	Street or Route 3241 E Bonnie Drive		Street or Route 158 Carriage Road
	City, State, Zip Oak Creek, WI 53154		City, State, Zip Montello, WI 53949
	Telephone Number (include area code) 414764-6840		Telephone Number (include area code)

SECTION II. LOCATION OF PLANT CONTROL

Waterbody To Be Treated (waterbody where treatment area is located) Montello Lake	Lake Surface Area 286	Estimated Surface Area That Is 10 Feet or Less in Depth 200 Acres
County Marquette	Names of Adjacent Riparian Property Owners (use additional sheets if necessary)	
Township Range Section 15 9 & 10 8	1. Timm Residence	
Name of Applicator or Firm Aquatic Engineering	2. Ambroisch Residence	
Street or Route Post Office Box 3634	3.	
City, State, Zip Code La Crosse, WI 54602-3634	Name of Lake Property Owners' Association Representative or Lake District Representative (if none, please indicate)	
Telephone Number (include area code) Home: 608-526-6416 Business: 608-781-8771	Montello Lake Inland P & R District-Jim Neeb	
Applicator Certification Number for Category 5, Aquatic Pesticide Application 95 060133	DNR USE ONLY	Date Verified w/DATCP Certification Expiration
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Is this area within or adjacent to a sensitive area designated by the Department of Natural Resources?

Yes No

SECTION III. FEES

1. s. NR 107.11(1), Wis. Adm. Code. Lists the conditions under which the permit fee is included to the \$20 minimum charge.
2. s. NR 107.11(4), Wis. Adm. Code. Lists the uses that are exempt from permit requirements.
3. s. NR 107.04(2), Wis. Adm. Code. provides for a refund of acreage fees if the permit is denied or if no treatment occurs.
4. Fee calculations:

Base Permit Fee (non-refundable)	<u>\$20.00</u>
If proposed treatment is over 0.25 acre, calculate acreage fee (round up to nearest whole acre, to maximum of 50 acres.) 1.0 acres X \$25 per acre = \$25.00 If proposed treatment is \leq 0.25 acre, acreage fee is \$0.00.	
Enter Acreage Fee (from above)	<u>\$25.00</u>
Total Fee Enclosed	<u>\$45.00</u>

Please include a sketch and/or a printed map of lake indicating area and dimensions of each individual area where plant control is desired. Also show location of property owners riparian to and adjacent to the treatment area. You may use the space below to sketch a map. Attach a separate list of owners and corresponding treatment dimensions coded to the lake map, if necessary.



SECTION IV. REASONS FOR AQUATIC PLANT CONTROL

Purpose of aquatic Plant Control <input checked="" type="checkbox"/> 1. Reduce nuisance algae accumulation <input checked="" type="checkbox"/> 2. Maintain navigation channel for common use <input checked="" type="checkbox"/> 3. Maintain private access for boating <input checked="" type="checkbox"/> 4. Maintain private access for fishing <input checked="" type="checkbox"/> 5. Improve swimming <input type="checkbox"/> 6. Control of purple loostrife <input type="checkbox"/> 7. Other: _____	Nuisance Caused By <input checked="" type="checkbox"/> 1. Algae <input type="checkbox"/> 2. Emergent water plants (majority of leaves and stems growing above water surface, e.g. cattails, buhushes) <input checked="" type="checkbox"/> 3. Floating water plants (majority of leaves floating on water surface, e.g. waterlilies, duckweed) <input checked="" type="checkbox"/> 4. Submerged water plants (leaves and stems below water surface, flowering parts may be exposed, e.g., milfoil, coontail) <input type="checkbox"/> 5. Other: _____
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Name of Plants, if known

NOTE: Different plants require different chemicals for effective treatment. Do not purchase chemical before identifying plants.

Target Species: Milfoil spp., Coontail, Elodea, Algae spp., Potamogeton spp., Duckweed spp. For specific individual plant species lists please refer to each customers aquatic plant management report.

SECTION V. CHEMICAL CONTROL

Alternatives to Chemical Control	Feasible?	If No, Why Not?
1. Mechanical harvesting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Can not get close enough to shore!</u>
2. Hand pulling	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too dense of an area!</u>
3. Hand raking	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too dense of an area!</u>
4. Hand cutting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too dense of an area!</u>
5. Sediment screens/covers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Not effective!</u>
6. Dredging	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too costly!</u>
7. Lake drawdown	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Not a control option for immediate concerns!</u>
8. Nutrient controls in watershed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Not a control option for immediate concerns!</u>
9. Other:	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	

NOTE: If proposed treatment involves multiple properties, please consider feasibility of EACH alternative for EACH property owner. If you checked yes to any of the alternatives listed above, please explain your decision to use chemical controls:


Trade Name of Proposed Chemical(s) Reward, Aquathol K, and Chealated Copper Products	Method of Application Aquatic Engineering's Aquatic Herbicide Subsurface and Topical Applying Systems
Which Chemicals or Other Control Options Have Been Tried Before On The Proposed Site, and What Were the Results Proposed chemicals have been used state wide on plant species present by our firm and have been successful in controlling target plant species selectively with our aquatic herbicide applying systems and personnel.	

NOTE: Chemical fact sheets for aquatic pesticides used in Wisconsin are available from the Department of Natural Resources upon request.

SECTION VI. APPLICANTS RESPONSIBILITIES

1. The applicant prepared a detailed map which shows the length, width and average depth of each area proposed for the control of rooted vegetation and the surface area in acres or square feet for each proposed algae treatment.
2. The applicant understands that the Department of Natural resources may require supervision of any aquatic plant management project involving chemicals. Under s. NR 107.-7 Wis. Adm. Code, supervision may include inspection of the proposed treatment area, chemicals and application equipment before, during or after treatment. The applicant is required to notify the regional office 4 working days in advance of each anticipated treatment with the date, time, location and size of treatment unless the Department waives the requirement. Do you request the Department to waive the advance notification requirement? Yes No
3. The applicant agrees to comply with all terms or conditions of this permit, if issued, as well as all provisions of Chapter NR 107, Wis. Adm. Code. The required applicant fee is attached.
4. The applicant has provided a copy of the current application to any affected property owners' association, inland lake district and, in the case of chemical application for rooted aquatic plants, to all owners of property riparian or adjacent to the treatment area. The applicant has also provided a copy of the current chemical fact sheet for the chemicals proposed for use to any affected property owners association or inland lake district.

I hereby certify that the above information is true and correct and that copies of this application have been provided to the appropriate parties named in Section II and that the conditions of the permit and pesticide use will be adhered to.

Applicants Signature  Date Signed May 16, 2002

All portions of this permit, map and accompanying cover letter must be in possession of the chemical applicator at time of treatment. During treatment all provisions of Chapter NR 107, specifically ss. NR 107.07 and NR 107.08, Wis. Adm. Code, must be complied with, as well as the specific conditions contained in the cover letter.

SECTION VII. PERMIT TO CARRY OUT CHEMICAL TREATMENT (LEAVE BLANK DNR USE ONLY)	
The foregoing application is approved. Permission is hereby granted to the applicant to chemically treat the waters described in the application during the season of _____	
Application fee received? <input type="checkbox"/> Yes <input type="checkbox"/> No Advance Notification of Treatment Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	State of Wisconsin Department of Natural Resources For the Secretary By _____ Regional Director or Designee _____ Date Signed Date Mailed

Please NOTE:

If you believe that you have a right to challenge this decision, you should know that Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed.

For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed or otherwise served by the department, to file your petition with the appropriate circuit court and serve the petition on the department. Such a petition for judicial review shall name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30 day period for filing a petition for judicial review.

This notice is provided pursuant to s. 227.48(2), Wis. Stats.