

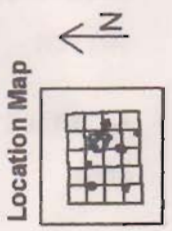
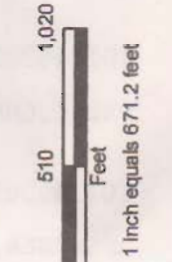
☐ = Milfoil = Storerwart

☐ = Milfoil

The information contained in this preliminary map is used to locate, identify and inventory parcels of land in Washtenaw County for the purpose of assessing property taxes. It is not intended to be used for any other purpose. The information is provided with the understanding that the user assumes all responsibility for any error or omission. Any reproduction of legal details of this data is hereby prohibited.

NOTE: PARCELS MAY NOT BE TO SCALE

THIS MAP REPRESENTS PARCELS AT THE TIME OF PRINTING. THE OFFICIAL PARCEL TAX MAPS ARE MAINTAINED SOLELY BY THE WASHTENAW COUNTY EQUALIZATION DEPARTMENT AND CAN BE OBTAINED BY CONTACTING THAT OFFICE AT 734-222-8662.



GIS Map Print

Date Printed: 05/08/2008



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



STEVEN E. CHESTER
DIRECTOR

April 28, 2009

Mr. Jeff Krcmarik
Washtenaw County
705 N. Zeeb Rd.
Ann Arbor, Michigan 48107

Dear Mr. Krcmarik:

SUBJECT: Joslin Lake, Washtenaw County – Permit Number 09-98-0998-0

The Department of Environmental Quality's Water Bureau (WB) has reviewed your aquatic nuisance plant control permit application for Joslin Lake. Your 2009 permit has been issued in part.

The chemical amount permitted for Hydrothol 191 (L) has been reduced to 42 gallons. The slight decrease in the permitted amount is based on the maximum rate allowed by the DEQ.

Your permit is also issued with a special condition to protect the fisheries of this resource. The permit condition states:

- To reduce the potential for fish suffocation caused by oxygen depletion from decaying algae, chemical treatment of Starry Stonewort is restricted to a maximum 1/3 of the waterbody at a time, with a waiting period of at least 7 days between each treatment.

Please review your permit and contact the WB if you have any questions regarding the conditions and requirements of your permit.

Thank you for your cooperation. If you have any questions regarding this correspondence, please contact me via the telephone or fax number below, or via email at bacone1@michigan.gov.

Sincerely,

Eric Bacon
Aquatic Nuisance Control and Remedial Action Unit
Water Bureau
517-241-9007
FAX: 517-335-4381

Enclosure

cc: Application File



Department of Environmental Quality, Water Bureau

**PERMIT FOR PESTICIDE APPLICATION
TO SURFACE WATERS OF THE STATE OF MICHIGAN**

Permits are required by Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), and Part 33, Aquatic Nuisance Control, of the NREPA (Part 33).

Permission is hereby granted, based on information supplied on the permit application and on the applicant's assurance of adherence to State requirements and this permit, to apply chemicals to the waters described herein for the control of aquatic plants and/or algae or swimmer's itch.

PERMIT NUMBER: 09-98-0998-0

DATE EFFECTIVE: 04/28/2009

This permit is valid only through December 31, 2009.

Permittee Name and Address

Washtenaw County
705 N. Zeeb Rd.
Ann Arbor, Michigan 48107

Name of Waterbody Affected

Joslin Lake

County(ies) in which Waters are Located

Washtenaw

Authority granted by this permit is subject to the following conditions and limitations:

Section A. Authorizations and Coverage Provisions

1. Chemical Application

The application of chemicals is restricted to the following CHEMICAL(S) (product name and/or active ingredient), APPLICATION RATE(S), and MAXIMUM AMOUNT(S) PER TREATMENT.

<u>CHEMICAL(S) AND APPLICATION RATE(S)</u>	<u>MAXIMUM AMOUNT(S) TO BE APPLIED PER TREATMENT</u>
Aquathol K - endothall 1.3 - 1.9 gallon(s)/acre foot	239.4 gallon(s)
Chelated Copper Algaecides (macroalgae) 0.6-1.2 gallon(s)/acre foot	332.0 gallon(s)
Copper Sulfate (macroalgae) 2.6-4.4 pound(s)/acre foot	1264.9 pound(s)
Cygnat Plus - adjuvant (submergent) 1.5 - 2.5 pint(s)/acre foot	1245.0 pint(s)
Diquat Dibromide 0.5 - 2.0 gallon(s)/acre	208.0 gallon(s)
Hydrothol 191 - endothall (submergent) 1 gallon(s)/acre	42.0 gallon(s)
Navigate - 2,4-D (milfoil) 100-120 pound(s)/acre	19920.0 pound(s)

The applicant may apply only those specific chemical products that are approved by the Michigan Department of Environmental Quality (DEQ). If only an active ingredient is approved in the table above, consult the list of DEQ-approved aquatic pesticides and related products to determine if the brand name product you plan to use is approved. This list is available from the DEQ upon request.

2. Treatment Intervals

Each chemical approved for use in Section A(1) of this permit has a minimum length of time required between each treatment in same area(s) of impact, in accordance with the federal product label. The table below indicates these restrictions for all currently approved active ingredients. Please note that this permit may not approve the use of all chemicals listed in this table. Follow the federal treatment interval unless a different interval or use limitation is specified in Section A(4) of this permit.

<u>Active Ingredient</u>	<u>Minimum Treatment Interval</u>
2,4-D	14 days minimum between treatments (Navigate); 21 days minimum between treatments (Aquacide)
Chelated copper	7 days minimum between treatments (except Komeen and Nautique: 4 weeks minimum; Copper-EDA, Current, Formula F-30, Harpoon, PondWeed Defense: 10 days minimum)
Copper sulfate	7 days minimum between treatments (swimmer's itch treatment – 1 time only)
Diquat dibromide	14 days minimum between treatments
Endothall	5 days minimum between treatments
Glyphosate	24 hours minimum between treatments
Hydrogen dioxide	48 hours minimum between treatments
Imazamox	No label requirement
Imazapyr	10 days minimum between treatments
Sodium carbonate peroxyhydrate	48 hours minimum between treatments
Triclopyr	10 days minimum between treatments
Water dye	24 hours minimum between treatments

3. Authorized Areas

Control of aquatic nuisances is authorized only in areas as defined on the attached treatment map(s).

Areas where control of aquatic nuisances is undertaken must be either under the legal control of the permittee or the party(ies) who has/have granted the permittee permission to do the treatment.

4. Special Conditions

The permittee shall not employ a commercial applicator, or any legal entity with whom he/she may be associated as a principal, owner or co-owner, who has a significant history of noncompliance with Part 33 or with permits issued under Part 33, as determined by the DEQ pursuant to Rule 323.3108(3). A list of these aquatic commercial applicators who have a significant history of noncompliance is available from the DEQ upon request. The listed individuals are not prohibited from working as an employee under the direction of another certified applicator.

Do not apply granular endothall or granular 2,4-D products within 75 feet of ANY active drinking water well OR within 250 feet of wells less than 30 feet deep. Distances are measured from the well location not from the shoreline. Wells and isolation distances are not necessarily shown on the treatment map. Prior to treatment, locate the water wells and observe the appropriate isolation requirements. If well location and/or depth are unknown, then assume the full 250-foot isolation distance.

Do not treat within 300 feet of the outlet, when flowing.

Do not damage non-targeted wetland vegetation, such as lilies, rushes, arrowhead, cattails, etc.

Chemical treatment of offshore/undeveloped areas using diquat dibromide is restricted to a one-time only treatment for exotic species control using a rate of 1 gal/acre, on or before June 15. "Offshore" areas are defined as those areas beyond the five-foot depth contour or 300 feet from shore, whichever is closer to shore.

An aquatic vegetation survey is required no more than 10 days prior to the one-time only treatment using diquat dibromide. This survey must be conducted per DEQ's "Procedures for Aquatic Vegetation Surveys". This survey must also use the approved DEQ survey map provided with this permit. The results of this vegetation survey (map and summary sheets) must be forwarded to the DEQ (attention: Eric Bacon) no later than 10 days following the survey date.

To reduce the potential for fish suffocation caused by oxygen depletion from decaying algae, chemical treatment of Starry Stonewort is restricted to a maximum 1/3 of the waterbody at a time, with a waiting period of at least 7 days between each treatment.

5. Notification and Posting Requirements

The applicant is required to notify, in writing, an owner of any waterfront property within 100 feet of the area of impact, not less than seven days, and not more than 45 days, before the initial chemical treatment. Requirements for written notification are provided in Section 324.3310(h) of Part 33. If the owner is not the occupant of the waterfront property or the dwelling located on the property, then the owner is responsible for notifying the occupant.

Notice of the chemical application must be posted prior to each chemical application, in accordance with Section 324.3310(d) of Part 33. Water use restrictions listed on the label for the specific product (i.e., trade name) used shall be included on the posting signs. In addition, a 24-hour water use restriction for swimming shall be indicated on the signs for each chemical application of 2,4-D, diquat dibromide, endothall, fluridone, glyphosate, imazapyr, chelated copper herbicides, triclopyr, sodium carbonate peroxyhydrate, and/or water dye (except when approved for use as a tracer dye). A 48-hour swimming restriction shall be indicated on the signs for swimmer's itch treatments with copper sulfate.

Section B. Permit Amendments

The DEQ may make minor revisions to this permit to minimize the impacts to the natural resources, public health and safety, or to improve aquatic nuisance control, if the proposed revisions do not involve a change in the scope of the project and the permittee requests the revisions in writing. A revision that involves a change in the scope of the original project requires submittal of a new permit application. As part of the amendment request, the permittee shall include all of the following information: (a) the proposed changes to the permit; (b) an explanation of the necessity for the proposed changes; (c) maps that clearly delineate any proposed changes to the area of impact; and (d) additional information that would help the DEQ reach a decision on the permit amendment.

Section C. Reporting and Record Keeping

1. Environmental Impacts

The applicant is required to immediately contact the DEQ, Water Bureau, at 517-241-7734 if any fish or wildlife damage or significant non-target plant impacts occur in association with any chemical application.

2. Treatment Report

A treatment report, on the approved DEQ form, must be returned postmarked no later than November 30 of the year this permit is in effect, even if treatment is not undertaken. Submit report to:

AQUATIC NUISANCE CONTROL AND REMEDIAL ACTION UNIT
WATER BUREAU
DEPARTMENT OF ENVIRONMENTAL QUALITY
PO BOX 30273
LANSING MI 48909-7773

3. Record Retention

The applicant shall obtain and maintain written permission from each bottomland owner in the area of impact for 1 year from the expiration date of the permit, unless exempt under Section 324.3308 of Part 33. The records shall be made available to the DEQ upon request.

Section D. Liability

1. Noncompliance

Initiation of any work on the permitted project confirms the applicant's acceptance and agreement to comply with all terms and conditions of this permit. Noncompliance with these terms and conditions, and/or the initiation of other regulated activities not specifically authorized by this permit, shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, the DEQ may initiate criminal and/or civil proceedings to correct project deficiencies, protect public health and natural resource values, and secure compliance with statutes.

The issuance of this permit does not authorize violation of any federal, state or local laws or regulations, nor does it obviate the necessity of obtaining such permits, including any other DEQ permits, or approvals from other units of government as may be required by law.

2. Property Rights

This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights.

3. Indemnification

The applicant shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents and representatives for any and all claims or causes of action arising from acts or omissions of the applicant, or employees, agents, or representatives of the applicant, undertaken in connection with this permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the applicant or any other person.

Steven E. Chester, Director
Department of Environmental Quality





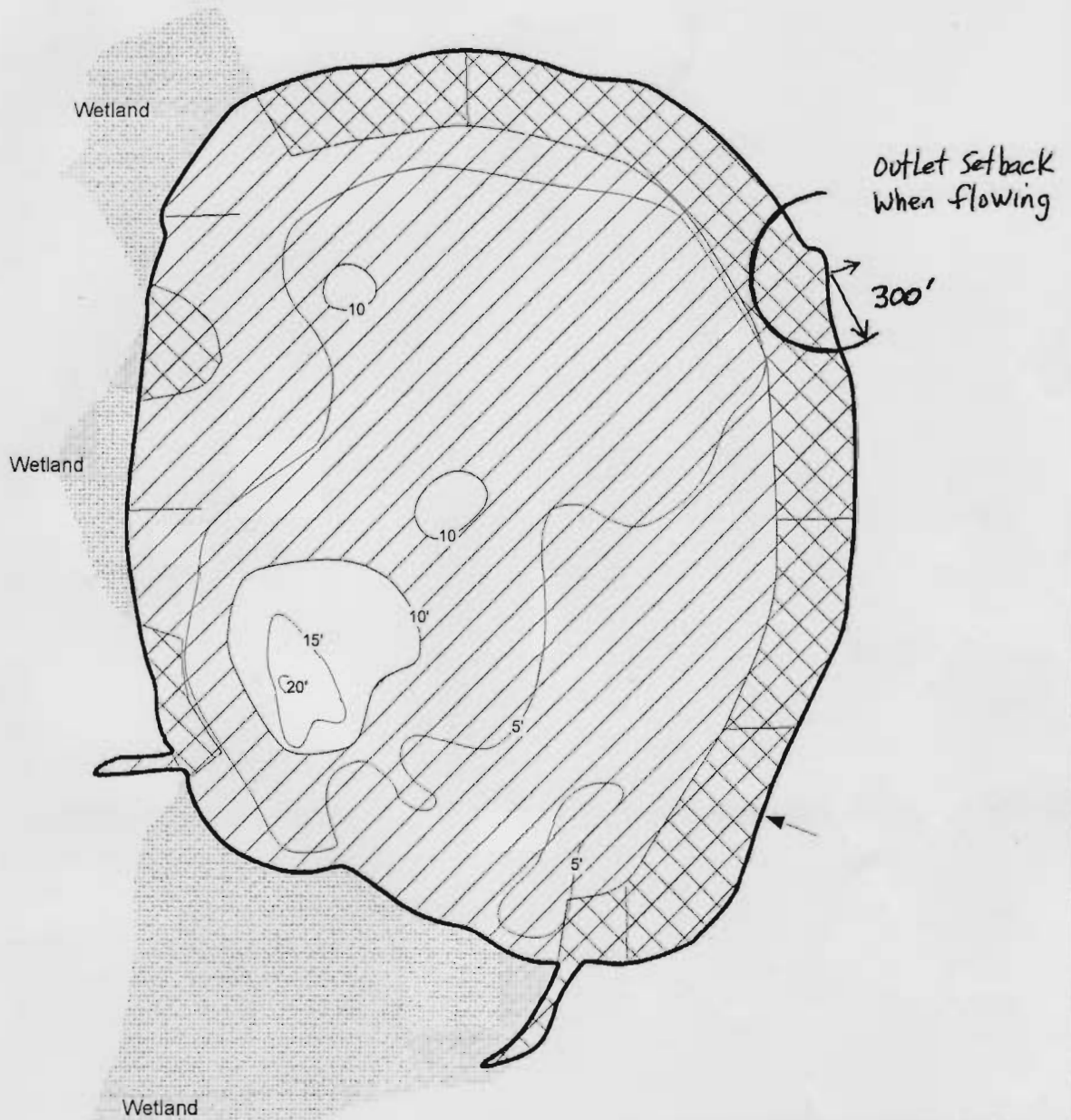
By: Eric Bacon
Environmental Quality Analyst
Water Bureau

For additional information or questions regarding this permit, please contact the DEQ at:
DEQ, Water Bureau, Constitution Hall, 525 West Allegan Street, P.O. Box 30273, Lansing, Michigan, 48909-7773,
Telephone: (517) 241-7734, E-mail: DEQ-LWM-ANC@michigan.gov, Website: <http://www.michigan.gov/deq>

Aquest



-  Milfoil and Starry Stonewort Control Zones = 166 acres
-  Inhabited Shroreline Broad Spectrum Control = 42 acres



Water well locations and appropriate isolation distances are not represented on this treatment map. Prior to treatment, locate the water wells and observe the appropriate isolation requirements as noted in the permit document.

Joslin Lake
187 Acres
Washtenaw County
Lyndon Township
T.1S., R.3E. Sec.3,4
<small>Aquest Corp. ~ 1110 South Drive ~ Flint, MI 48503</small>



Approved Treatment Map for 2009
 Permit Number: 09-98-0998-0
 Map 1 of 1 23

