



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



LIESL EICHLER CLARK
DIRECTOR

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

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

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

Permit Number: [ANC9804644](#)

Date Effective: [March 18, 2019](#)

This permit is valid only through [December 31, 2022](#).

Permittee Name and Address

[Aqua Weed Control Inc.](#)
[414 HADLEY ST](#)
[HOLLY, MI 48442](#)

Name of Waterbody(ies) Affected

[WB-1560-5: Runyan Lake: Aqua-Weed Control, Inc.](#)

County(ies) in Which Waters are Located

[Livingston](#)

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

[The state-threatened cisco or lake herring \(*Coregonus artedii*\) has been known to occur in Runyan Lake. Beginning November 1 through June 1 do not apply chemical products that could have a direct negative impact on algae.](#)

[ProcellaCOR was included in the application for this permit. If treatment with ProcellaCOR is planned, be sure to follow ProcellaCOR condition in Section B.4.](#)

All submissions and notifications to the Department of Environmental Quality (DEQ), as required by this permit shall be accomplished through the MiWaters permitting database. For additional information or questions regarding this permit, please contact the DEQ's Aquatic Nuisance Control (ANC) Program at DEQ, Water Resources Division, P.O. Box 30458, Lansing, Michigan 48909-7958; 517-284-5593; deq-wrd-anc@michigan.gov; or www.michigan.gov/anc.

Original Signed by: [Ryan Crouch](#)
Aquatic Nuisance Control Program
Water Resources Division

Section A. Annual Fee for Permits that Cover More than One Year

In accordance with Section 3309 of Part 33, the permittee shall make payment of an annual fee to the DEQ by April 1 or prior to the first treatment for each year covered by a multi-year permit. The annual fee is equal to the initial permit application fee plus any additional fee(s) resulting from a permit revision or expansion that increases the approved treatment area to a higher fee category. The annual fee shall be submitted through the "ANC Annual Fee" Schedule of Compliance in the MiWaters permitting database.

Initial Permit Application Fee: [\\$800.00](#)

Section B. Authorizations and Coverage Provisions**1. Chemical Application**

The permittee may apply only those specific chemical products that are approved by the DEQ for use under Standard Permits in the areas identified by this permit and delineated on the attached approved treatment map(s). Please consult the chemical table titled "Chemicals Approved for Use Under the Aquatic Nuisance Control Standard Permits." This table is updated as any new chemicals are approved. The table is available at www.michigan.gov/anc; select "General Information," then select "Chemicals used for Treatment of Aquatic Nuisance Plants and/or Algae," and then select "Chemicals Approved on Standard Permits."

The application of chemical pesticides to the areas identified on the approved treatment map(s) is restricted to the stated maximum application rates listed in the table. This rate may be lower than the maximum allowed under the federal product label. The maximum total amount of each chemical applied to the treatment site shall be based upon the application rates in the table, the actual area of treatment, the average depth of the treatment area, the treatment timing and location, plant or algae density, the target chemical concentration in the water, and the target species, or as otherwise indicated by the product label.

Some chemical products may require special applicator certifications. Refer to the federal product label for applicator certification requirements.

2. Treatment Intervals

With few exceptions, the products approved for use in Section B.1. of this permit have a minimum length of time required between each treatment in the same area(s) of impact, in accordance with the federal product label. Some of the federal product labels also have limits on the total amount of chemical applied annually per treatment area. Follow the federal label treatment interval and annual limits unless a more restrictive interval or use limitation is specified in Section B.4. or the cover page of this permit.

3. Authorized Areas

The control of nuisance aquatic plants or algae is authorized only in areas as defined by this permit and as delineated on the attached approved treatment map(s), or through an expansion due to an infestation of an adjacent area in accordance with Section 3311 of Part 33.

Prior to issuance of the permit, areas where chemical control of nuisance plants or algae is undertaken must either be under the legal control of the permittee or the party(ies) who has/have granted the permittee written permission to do the treatment, or otherwise under legal control as specified in Section 3308 of Part 33.

4. Special Conditions

Follow all federal product label instructions to protect human health and the environment. The label provided with the pesticide container explains how to use the pesticide safely and effectively and may suggest ways to avoid unintended impacts to human health and the environment. Read and understand the label before mixing or applying any pesticide. Most labels list a toll-free number for consumers. Pesticide labels are federally-approved legal documents and their requirements are enforced under both federal and state laws. This permit incorporates the product labels in effect at the time of application by reference.

All chemicals shall be applied in a manner to minimize impacts to non-target plant and animal species. Refer to the federal product label requirements and suggestions to optimize selectivity. In addition, refer to the best management practices handbooks, and other best practices for Michigan posted at www.michigan.gov/anc; select "General Information" and then select "Best Management Practices."

Do not treat within the outlet setback indicated on the approved treatment map(s) attached to this permit, if applicable. An outlet setback is not required when there is no discharge from the waterbody.

Due to the toxicity of copper to spawning fish, do not use copper products within 20 feet of a known, or suspected, active spawning bed.

Treatment of wild celery (*Vallisneria americana*) shall not occur more than two times per year within the same treatment area.

The use of water dyes allowed by this permit excludes water dyes that are labeled as herbicides (e.g., Aquashade®, Admiral®, and Pond Care Algae Blocker®). Use of water dyes is allowed only in waterbodies with a surface area of less than 10 acres and is permitted only when there is no discharge from the waterbody, except when used as a tracer. Water dyes may not be appropriate in waterbodies used for swimming.

For all treatments, ensure that the retention time is adequate for the efficacy of the product. Aquatic herbicide and algaecide impacts to vegetation downstream of the treated waterbody in areas not permitted for treatment caused by release of the pesticide from a treated waterbody is a violation of this permit, Part 31, and Part 33. Release of dye to areas downstream from a treated waterbody is a violation of this permit, Part 31, and Part 33.

Do not treat within 500 feet of loons' nests between April 15 and August 15.

For treatment of all waterbodies in Ingham County, the permittee must notify the Ingham County Drain Commission a minimum of two (2) working days prior to each application of chemical(s). Notify Mr. Eric Daldos by e-mail at EDaldos@ingham.org. Notification must include the date, time, and location(s) of the proposed chemical use. A copy of the notification shall be uploaded in MiWaters through the "ANC Notification of Ingham County Drain Commissioner" Schedule of Compliance for the associated permit by November 1 of the year of treatment. For general questions to the Ingham County Drain Commissioner, contact the office at 517-676-8381 between 8:00 a.m. and 5:00 p.m., Monday through Friday.

Except for waterbodies with a total surface area of less than 10 acres, the chemical treatment of native emergent and floating leaf vegetation, such as water lilies, cattails, arrowhead, pickerelweed, rushes, etc., is approved for the purpose of providing access to the waterbody and not for the purpose of beach grooming. Restrict treatment of native emergent and floating leaf vegetation to a 40-foot x 40-foot area for swimming and boat launching, and a 20-foot wide

boat lane to reach open water per residentially developed parcel. Treatment of an infestation of non-native floating or emergent species in excess of a 40-foot x 40-foot area per residential parcel is approved using selective application methods and timing of treatment to prevent impacts to non-target native species.

Except for waterbodies with a total surface area of less than 10 acres, chemical treatment of developed shorelines for control of algae (planktonic, filamentous, or macroalgae) or submersed macrophytes is limited to 100 feet of frontage out to the 5-foot depth contour or 300 feet (whichever is closer to shore) per residential property.

Treatment of shoreline areas that are used as common areas (e.g., beaches and parks) and boat marinas are not limited by the 'residential' restrictions in this section. Vegetation may be treated inside the borders of these specific areas to maintain access and safe usage conditions, as delineated in the attached approved treatment map(s).

Chemical treatment of an infestation of non-native invasive species in areas exceeding 100 feet of frontage per residential property, in areas along undeveloped shoreline, and in offshore areas is approved using only the chemical protocol in the table below to prevent impacts to non-target native species in these areas.

Non-native Invasive Species Target	Chemical (maximum application rate)	Restrictions
Eurasian watermilfoil (<i>Myriophyllum spicatum</i> or hybrid watermilfoil)	Aquathol K (1 gal/ac) AquaStrike (1.625 gal/ac ft) diquat dibromide (1 gal/ac) ¹ carfentrazone (0.143 gal/ac ft, 100 ppb) flumioxazin (1.05 lbs/ac ft, 200 ppb)	one time per calendar year, prior to June 15
	2,4-D (label maximum) triclopyr (label maximum) 2,4-D - triclopyr combination (label maximum)	None
	ProcellaCOR (15.85 oz/ac ft)	DEQ notification in section B.4.
Curly leaf pondweed (<i>Potamogeton crispus</i>)	Aquathol K (1 gal/ac) AquaStrike (1.625 gal/ac ft) diquat dibromide (1 gal/ac) ¹	one time per calendar year, prior to June 15
Starry stonewort (<i>Nitellopsis obtusa</i>)	chelated copper algaecides (1.2 gal/ac ft) copper sulfate (4.4 lb/ac ft) Cutrine Plus granular (60 lb/ac) flumioxazin (1.05 lbs/ac ft, 200 ppb) Harpoon Granular (80 lb/ac ft of plant height) Hydrothol 191 liquid (2.2 pints/ac ft) Hydrothol Granular (9.72 lbs/ac ft) Komeen Crystal (15.5 lbs/ac ft, 1 ppm)	None
Fanwort (<i>Cabomba caroliniana</i>)	flumioxazin (1.05 lbs/ac ft, 200 ppb)	None
All other non-native invasive species not identified above	Chemicals approved include those listed on the table titled "Chemicals Approved for use Under the Aquatic Nuisance Control Standard Permits." ¹	None

¹ Low-dose chelated copper only, at a rate not more than 0.11 ppm Cu, may be used with diquat, 2,4-D, and triclopyr in areas exceeding 100 feet of frontage per residential property, in areas along undeveloped shoreline, and in offshore areas.

Application of herbicides containing imazapyr or carfentrazone can be made only by federal or state agencies, such as Water Management District personnel, municipal officials, and the U.S. Army Corps of Engineers, or licensed or certified aquatic pest control applicators, and are authorized by the state or local government.

Prior to each treatment with ProcellaCOR, the "ProcellaCOR Treatment Notification" Schedule of Compliance (SOC) must be submitted in the MiWaters permitting database no less than two (2) weeks before the anticipated treatment date(s). The notification form will require an updated treatment map delineating the ProcellaCOR treatment area and the prescribed application rate (in ounces per acre-foot). Approval of the SOC by the DEQ is required prior to the treatment with ProcellaCOR.

Application of any herbicide on a per-acre basis in shallow areas may result in a concentration of active ingredient exceeding the federal label maximum, which could result in unacceptable impacts to non-target organisms. The per-acre chemical amount must be adjusted to the depth of water being treated. Consult the federal product label to ensure proper application.

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.

Multiple products with the same active ingredient are approved by this permit. Do not apply multiple formulations of the same active ingredient that, in combination, exceed (1) either of the product label application rates and/or active ingredient concentration for the target species and site conditions, or (2) the approved application rate on this permit, if it is lower than the maximum label rate.

The use of Hydrothol 191 liquid and/or granular herbicide has been approved at a rate in excess of 0.3 parts per million (ppm) and, according to the federal product label, may be toxic to fish under certain conditions. The federal product label suggests that treatment be conducted only by a certified pesticide applicator. Apply product evenly in narrow margins or strips to control target vegetation so fish are not killed. Apply product from the shoreline out so fish are not trapped. Do not treat more than 10 percent of the waterbody, or a bay, at a time with doses greater than 1.0 ppm (54 pounds per acre foot granular or 1.4 gallons per acre foot liquid).

If the entire waterbody(ies) approved for treatment under this permit has been treated with fluridone within the previous two (2) years, then the following requirement is in effect:

Aquatic vegetation survey requirements as specified by the previous fluridone permit are incorporated by reference. Surveys must be submitted to the DEQ through the MiWaters permitting database not later than November 1 of the year the survey was performed.

Upon receipt of written notification from the DEQ, the permittee may be required to fulfill any of the following requirements:

- Conduct the chemical treatment only when a DEQ representative is present
- Notify the DEQ not less than two (2) working days in advance of chemical treatment(s)
- Submit an accurate map of the exact locations where each chemical was applied to the DEQ within 24 hours of the completion of each treatment

- In addition to the normally required notification, also notify other person(s) specified by the DEQ
- Notify the Michigan Loon Watch Coordinator by e-mail (michiganloons@yahoo.com) a minimum of two (2) business days prior to the initial application of chemicals to this waterbody. Notification must include the name and county of the waterbody, the anticipated treatment schedule for the calendar year, and a telephone number where the permittee can be contacted. A copy of the notification shall be uploaded in MiWaters through the "ANC Notification of Loon Watch Coordinator" Schedule of Compliance for the associated permit by November 1 of the year of treatment.
- Allow the DEQ or its representative to collect a sample of the chemical(s) used before or during any chemical treatment
- Apply chemicals so that swimming restrictions and fish consumption restrictions are not imposed on any Saturday, Sunday, or state-declared holiday
- Take special precautions to avoid or minimize potential impacts to human health and safety, the environment, and non-target organisms
- Perform lake water residue analysis to verify the chemical concentrations in the waterbody according to a frequency, timing, and methodology approved by the DEQ
- Perform aquatic vegetation surveys according to a frequency, timing, and methodology approved by the DEQ
- Use chemical control methods for nuisance aquatic vegetation that are consistent with the approved vegetation management plan submitted separately or as part of a lake management plan
- Perform pretreatment monitoring of the target aquatic nuisance population according to a frequency, timing, and methodology that have been approved by the DEQ
- Submit a copy of any vegetation management plan, lake management plan, lake report, written recommendations, and/or vegetation surveys that are prepared for the waterbody
- Any other requirements determined by the DEQ as necessary to protect the natural resources or the public health and safety, to prevent economic loss or impairment of recreational uses, to protect non-target organisms, or to help ensure control of the aquatic nuisance

5. Notification and Posting Requirements

The ANC statute allows a permittee to expand the area of impact, without a formal permit revision, beyond that authorized in this permit to include *adjacent* (as defined in Section F. Definitions) areas of the same waterbody or treatment area that became infested after the application was submitted. The areas allowed for expansion, without a formal revision, include **only infestations of non-native species**, as defined in Section F. Definitions. The expansion treatment must use the same chemicals and application rates as those currently authorized in the permit.

The permittee shall submit: (1) a notification of an impending expansion treatment, and (2) an expansion report.

1. Notification of impending expansion treatment - If expanding the area of impact for treatment of an infestation, the permittee shall notify the DEQ prior to the initial treatment of the impending expansion area. This notification may be submitted by telephone at 517-284-5593 or by e-mail at deq-wrd-anc@michigan.gov, except in the following two situations:
 - a) The original area of impact authorized by this permit is greater than 100 acres and the proposed expansion exceeds 50 percent of the original authorized area.

- b) The treatment area expansion is proposed in a waterbody or treatment area that is located within or along the shoreline of the Great Lakes or inland waters in a municipality or township on the list in Appendix A.

In these two situations, the permittee shall complete the “ANC Pre-Expansion Notification” Schedule of Compliance in the MiWaters permitting database not less than two (2) full business days before the planned treatment of the expanded area. This notification shall include a map of the proposed expansion area(s), a list of chemical(s) to be applied, the date and time of anticipated treatment, written authorization to treat, and contact information for the on-site chemical applicator. The DEQ has two (2) business days to notify the permittee of any specific concerns about the proposal.

- 2. Expansion Report Form - The permittee shall complete the “ANC Treatment Expansion Report” Schedule of Compliance in the MiWaters permitting database not later than 15 days following the initial expansion treatment.

The permittee is required to notify, in writing, an owner of any waterfront property on the permitted waterbody within 100 feet of the area of impact, not less than seven (7) days and not more than 45 days, before each initial chemical treatment of the calendar year, in accordance with Section 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. This notification requirement applies to each new, or expanded, area of impact added during the calendar year.

Notice of the chemical application must be posted prior to each chemical application, in accordance with Section 3310(d) of Part 33, and shall remain posted for a minimum of 24 hours or until all water use restrictions have expired, whichever is later. Alternate posting locations may be approved on a case-by-case basis by the DEQ upon written request from the permittee. The written request must explain the necessity for alternative posting locations and a description of the proposed posting locations, including a map for clarification. An alternate posting request shall be submitted through the MiWaters permitting database as an attachment to the permit application or revision request.

Water use restrictions listed on the label for the specific product (i.e., trade name) used shall be included on the posting sign. In addition, a 24-hour water use restriction for swimming/entry shall be indicated for all chemical applications, except for copper-based algae treatments and dyes when approved for use as a tracer or marker. All signs shall also include a recommendation that swimming/entry in the treatment area be avoided while applicators are applying chemicals. A posting sign template is available at www.michigan.gov/anc; select “Application & Permit Information” and then select “Posting Sign.”

Section C. Permit Revisions

The permittee may request a revision of this permit if the proposed revision(s) does not involve a change in the scope of the project, as defined under Revision Criteria in Section F. Definitions, and the permittee requests the revision(s) in writing, using the ANC Permit Revision Request Form in the MiWaters permitting database. A revision that involves a change in scope of the original project requires submittal of a new permit application. A revision for a DEQ error may be requested through an e-mail to the permit writer or to deq-wrd-anc@michigan.gov.

Section D. Reporting and Recordkeeping

1. Environmental Impacts

The permittee is required to immediately contact the DEQ's ANC Program at 517-284-5593 and complete the "ANC Notification of Human or Resource Impacts" Schedule of Compliance in the MiWaters permitting database if any fish or wildlife damage or significant non-target plant impacts occur in association with any chemical application.

2. Treatment Report

A complete treatment report shall be submitted via the "ANC Treatment Report" Schedule of Compliance in the MiWaters permitting database not later than November 30 of each year that this permit is in effect, even if treatment is not undertaken.

3. Record Retention

The permittee shall keep written or electronic records as required in this permit. These records must be accurate, complete, and sufficient to demonstrate compliance with the conditions of this permit. All records shall be made available within two (2) calendar days to the DEQ upon request, or within a time frame agreed upon by the DEQ and the permittee.

The permittee shall obtain and maintain written permission from each bottomland owner in the area of impact for a minimum of one (1) year from the expiration date of this permit, unless exempt under Section 3308 of Part 33.

All other records shall be retained for a minimum of one (1) year beyond the expiration date of this permit.

Section E. Liability

1. Noncompliance

Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit. Noncompliance with these terms and conditions, shall be cause for the modification, suspension, or revocation of this permit. Further, the DEQ may initiate criminal and/or civil proceedings to correct deficiencies, protect public health and natural resources, and secure compliance with statutes. Federal pesticide label requirements are incorporated into this permit by reference. Violation of federal pesticide label requirements is considered a violation of this permit.

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.

Nothing in this permit shall be construed to preclude the initiation of any legal action or relieve any permittee from any responsibilities, liabilities, or penalties to which the permittee may be subject under the Endangered Species Act of 1973 (Title 16 of the United States Code, Section 1531 et seq.), or Part 365, Endangered Species Protection, of the NREPA.

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 permittee 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 permittee, or employees, agents, or representatives of the permittee, 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 permittee or any other person.

4. Right of Entry

The permittee shall allow the DEQ the following actions upon the presentation of credentials:

- To enter upon the permittee's premises where application equipment is located or in which any records are required to be kept under the terms and conditions of this permit
- To copy any records required to be kept under the terms and conditions of this permit
- To inspect equipment for use under this permit
- To sample chemicals, discharges, chemical products, and waterbodies

5. Laboratory and Analytical

When required by this permit or per the pesticide product label, laboratory analytical methods, practices, and product or water sampling techniques shall be performed in accordance with standard laboratory guidelines. The permittee shall periodically calibrate and maintain all monitoring instrumentation at necessary intervals to ensure accuracy of measurements. When outside contractors or volunteers perform sampling and analysis, the permittee shall ensure that said contractors or volunteers are sufficiently qualified to perform the required sampling and analysis, and that the quality control measures listed above are properly executed.

6. Permission to Treat

The permittee shall obtain authorization to chemically treat the proposed area of impact by obtaining written permission from each property owner who owns bottomlands in the area of impact. Written authorization from all property owners within the area of impact is required for each calendar year that this permit is in effect, prior to chemical treatment. It is the responsibility of the permittee to ensure that all permissions within the permitted treatment area are up-to-date each calendar year.

Section F. Definitions

Adjacent: An area of impact, contiguous to an approved treatment area, permissible for expansions for an infestation per Section 3311(3) of Part 33.

Change of Scope: A request that does not meet the revision criteria for a permit revision.

Emergent Plants: A plant that is rooted in the sediment with most parts of the plant maintained above the waterline.

Floating-Leaf Plants: Plants with leaves and flowers that float on the water surface.

Infestation: Any non-native invasive species that have grown into dense, monotypic stands causing ecological or economic harm.

Initial Chemical Treatment: The first treatment of each calendar year at approved treatment areas, as well as at expanded treatment areas, for infestations.

Native: An indigenous species to the ecosystem of Michigan prior to European settlement necessary for environmental health, habitat production, and economic development of fisheries and wildlife recreation.

Non-native Invasive: An introduced species that did not occur in Michigan's ecosystem prior to European settlement and where introduction causes or is likely to cause habitat, environmental, or economic harm, or harm to human health.

Offshore: Areas beyond the 5-foot depth contour or 300 feet from shore, whichever is closer to shore.

Revision Criteria: One or more of the following: (1) addition of chemical(s) or modification of chemical amount(s) for an existing approved treatment area(s); (2) addition, deletion, or modification of permit conditions to protect natural resources or improve treatment efficacy or operations; (3) addition of treatment area(s) that are consistent with Section B.4. of this permit to a site absent of environmental, public health, and endangered and/or threatened species of concern; and/or (4) a correction of a DEQ error.

Shoreline: The line marking the edge of a body of water.

Submersed Plants: Plants typically rooted in the sediment, growing almost entirely under water.

APPENDIX A

List of municipalities for the purpose of notification two (2) business days prior to an expansion of chemical treatment due to an infestation of non-native invasive species.

<u>Waterbody</u>	<u>Municipality</u>
Chippewa River	Union Township
Detroit River	City of Detroit
Detroit River	City of Ecorse
Detroit River	Grosse Ile Township
Detroit River	City of Wyandotte
Flint River	City of Flint
Huron River	City of Ann Arbor
Indian River	Hiawatha Township
Indian River	City of Manistique
Indian River	Manistique Township
Lake Adrian	City of Adrian
Lake Erie	Frenchtown Township
Lake Huron	Alpena Township
Lake Huron	City of Alpena
Lake Huron	City of Caseville
Lake Huron	City of Harbor Beach
Lake Huron	Lexington Township
Lake Huron	City of Mackinac Island
Lake Huron	Port Austin Township
Lake Huron	Rubicon Township
Lake Huron	Sand Beach Township
Lake Huron	City of St. Ignace
Lake Huron/Saginaw Bay	Bangor Township
Lake Huron/St. Mary's River	Detour Township
Lake Michigan	City of Bridgman
Lake Michigan	Charlevoix Township
Lake Michigan	City of Charlevoix
Lake Michigan	City of Grand Haven
Lake Michigan	Grand Haven Township
Lake Michigan	Lake Township
Lake Michigan	City of Ludington
Lake Michigan	City of New Buffalo
Lake Michigan/Big Bay de Noc	Fairbanks Township
Lake Michigan/Green Bay	City of Escanaba
Lake Michigan/Green Bay	City of Menominee
Lake Michigan/Green Bay	Menominee Township
Lake Michigan/Little Bay de Noc	City of Gladstone
Lake St. Clair	City of Grosse Pointe Farms
Lake St. Clair	Harrison Township
Lake St. Clair	Ira Township
Lake St. Clair	City of New Baltimore
Lake Superior	Baraga Township
Lake Superior	Carp Lake Township
Lake Superior	Eagle Harbor Township

APPENDIX A (continued)

Waterbody	Municipality
Lake Superior	Houghton Township
Lake Superior	City of Marquette
Lake Superior/Keweenaw Bay	L'Anse Township
Lake Superior/Scott Bay	Drummond Township
Lake Superior/Upper St. Mary's River	City of Sault Ste. Marie
Pine River	City of Alma
Pine River	Arcada Township
River Raisin	Blissfield Township
River Raisin	Deerfield Township
River Raisin	City of Monroe
River Raisin	Riga Township
St. Clair River	City of Algonac
St. Clair River	Clay Township
St. Clair River	East China Township
St. Clair River	City of Marine City
St. Clair River	City of Marysville
St. Clair River	City of Port Huron
St. Clair River	City of St. Clair

DEQ Approved Treatment Map for 2019 – 2022
Map 1 of 1

