



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER BUREAU**

Requirements and Restrictions on Chemical Treatments for Aquatic Nuisance Control

Prior to applying any chemical product to a waterbody, contact the Michigan Department of Environmental Quality to determine if a permit is required. Aquatic Nuisance Control information may be obtained at www.michigan.gov/deq or by contacting the Aquatic Nuisance Control and Remedial Action Unit at DEQ-LWM-ANC@michigan.gov or at 517-241-7734. Water use restrictions are subject to change as products are re-registered with the United States Environmental Protection Agency.

Active Ingredient (Trade Name)	Notification Requirements	Posting Requirements	Water Use Restrictions
2,4-D (Aquacide, Aqua-Kleen, Navigate)	Occupants of adjacent riparian dwellings whose bottomlands are within the treatment area, or within 100 feet of treatment area, must be notified in writing at least 7 days, and not more than 45 days, before the initial chemical treatment.	(a) For treatment areas less than 2 acres, Department approved posting signs must be posted along the shoreline of any treatment areas not more than 100 feet apart. (b) For treatment of areas greater than 2 acres, post as in (a) and post all access sites, boat launching areas, and public and private parks.	(a) 24-hour restriction on swimming in treatment area. (b) Do not use water from treated areas for irrigating plants or mixing sprays for agricultural or ornamental plants, unless an approved assay indicates the 2,4-D concentration is 100 ppb (or less), or only growing crops and non-crop areas labeled for direct treatment with 2,4-D will be affected. (c) Do not use water from treated areas for potable water (drinking water), unless an approved assay indicates the 2,4-D concentration is 70 ppb (or less).
Copper (Copper Sulfate)	Same as above	Same as above	None*
Copper (Chelated Copper Algaecides)	Same as above	Same as above	None*
Copper (Chelated Copper Herbicides)	Same as above	Same as above	(a) 24-hour restriction on swimming in treatment area.
Diquat dibromide** (Reward, Reward AccuGel, Weedtrine-D)	Same as above	Same as above	(a) 24-hour restriction on swimming in treatment area. (b) 1-day animal consumption of treated water (c) 3-day restriction on domestic water use and irrigation of turf and ornamentals (d) 5-day restriction on crop irrigation

Active Ingredient (Trade Name)	Notification Requirements	Posting Requirements	Use Restrictions
Endothall (Aquathol K, Hydrothol 191)	Same as above	Same as above	<p>(a) 24-hour restriction on swimming in treatment area.</p> <p>(b) 14-day restriction on using treated water for irrigation, agricultural sprays, or domestic purposes.</p> <p>NOTE: Extended restrictions on livestock watering and domestic uses may be required depending on dosage – see label for details.</p>
Fluridone (AVAST!, Sonar)	Same as above	Same as above	<p>(a) 24-hour restriction on swimming in treatment area.</p> <p>(b) 7-day restriction on watering established tree crops.</p> <p>(c) 30-day restriction on watering established row crops/turf/plants, newly seeded crops/seedbeds or areas to be planted.</p> <p>(d) setback distance required from potable water intakes (see product label for requirements).</p>
Glyphosate (AquaNeat, AquaPro, Eagre, Rodeo)	Same as above	Same as above	<p>(a) 24-hour restriction on swimming in treatment area.</p> <p>(b) setback distances from potable water intakes (see product label for requirements).</p>
Imazypyr (Habitat)	Same as above	Same as above	<p>(a) 24-hour restriction on swimming in treatment area.</p> <p>(b) setback distances from potable water intakes (see product label for requirements).</p> <p>(c) Do not use treated water for irrigation of any plants for 120 days. This restriction may be lifted if the imazypyr residue level is determined to be 1.0 part per billion or less by laboratory analysis.</p> <p>(d) Habitat® applications can only be made by Federal or State agencies or those applicators who are licensed or certified as aquatic pest control applicators and are authorized by the State or local governments.</p>

Sodium carbonate peroxyhydrate (GreenClean, GreenClean Pro, PAK 27 Algaecide, Phycomycin SCP Algaecide and Oxidizer)	Same as above	Same as above	(a) 24-hour restriction on swimming in treatment area.
Triclopyr (Renovate 3, Renovate OTF)	Same as above	Same as above	(a) 24-hour restriction on swimming in treatment area. (b) Do not use treated water for irrigation of any plants, except established grasses for 120 days. This restriction may be lifted if the triclopyr level in the intake water is determined to be non-detectable by laboratory analysis. (c) setback distances from potable water intakes (see product label for requirements).
Shades and Dyes	Same as above	Same as above	(a) 24-hour restriction on swimming in treatment area. ^{***} (b) May not be appropriate for waterbodies used for swimming.

* Although there are no use restrictions on copper treated water, the treatment is most effective if water is not disturbed. Therefore, swimming, boating, etc., is not recommended for 24 hours after application.

** Restricted Use Pesticide – Reward products are on the Michigan Department of Agriculture’s restricted use pesticide list. You must be a certified applicator to use these products in waters of the state, except for small ponds, such as farm ponds that have no outflow and are under the control of the user. Weedtrine-D is not a restricted use pesticide. However, it can only be used in ponds, lakes and drainage ditches where there is little or no outflow of water and which are totally under the control of the product’s user.

*** When applying water shades or water dyes at concentrations used for a tracer (0.01 gal/acre foot or less), the 24-hour swimming restriction does not apply.