



Lake & Pond Resource LLC

“Providing Professional Resources for Management of Your Lake or Pond”

Buffalo Lake – Information on Herbicide Treatment for Navigational Access Lanes

Buffalo Lake is an enlargement of the Fox River after installation of the dam in Montello. Because of the shallow nature and nutrient rich water of the lake aquatic plants grow very dense and require near constant management to allow for lake access and navigation. Currently, management is completed solely by an extensive mechanical harvesting program operated by the Buffalo Lake Protection and Rehabilitation District (the District). Due to difficult access and fast-growing nuisance vegetation the District has requested information on chemical control in some areas for nuisance relief and navigational access.

Chemical control for navigational nuisance relief and lake access is similar to harvesting and opens up navigational lanes for lake users to safely boat within the lake. Since nuisance is caused by a dense mix of native and non-native species a fast-acting, non-selective mix of products is applied to lanes or channels from 30 to 50-ft wide. Application requires a WDNR permit and total width of the lanes is based on WDNR approval. Typical products applied include a mix of the active ingredients copper, diquat, flumioxazin, and possibly others.

Since the application is based on hitting prescribed rates the total amount of product varies based on water depth. In areas of deeper water more product is required to hit target rates while shallow water requires less product. In Buffalo Lake, much of the areas are expected to have an average depth of 3-ft or less.

Chemical application would not replace mechanical harvesting but be used in conjunction with it. Primary target areas would be focused on locations that are too difficult for harvesters to operate in or access and areas that require significant travel or time allotment versus the final results. We are able to get into shallower water easier than harvesters and cover significantly more acreage per hour as well.

Much like harvesting, multiple control actions may be required per year to maintain open navigation within control lanes season long. Typically, an initial application is completed early season (May). Follow up visits are based on re-growth within navigation lanes and are typically 6-8 weeks apart. In general, follow-up visits require control less areas than the previous visit. For example, if 100 acres were completed in the first visit, the next may only require 75 acres, then 50, and so on. Actual application areas are based on conditions the day-of application. Approximate cost per acre varies from \$400-700/acre includes product and labor and is based on product rates and water depth.

Based on similar project experience, expenses for general navigation lanes are typically covered by the lake management group. These areas are for public use and already included in pre-existing management budgets for the group. Locations of nuisance control that impact only one landowner or are completed for private use, such as swimming or boat-docking, and within the area from shoreline to the end of private piers have been the responsibility of individual landowners. In situations where multiple landowners are looking to complete control is easier for WLPR and the DNR to include all areas under a single permit and have a single contact for the project. The project contact then handles collecting money from interested parties.



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Use of chemical control to aide mechanical harvesting has been completed by WLPR for multiple clients in similar situations to what Buffalo Lake is experiencing. Contacts for such projects are included in references below. We appreciate the opportunity to assist the District in furthering successful lake management for Buffalo Lake. If you have any questions or would like a formal proposal, please do not hesitate to contact us, we are happy to help.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Scharl".

Wisconsin Lake and Pond Resource LLC
Jim Scharl
Senior Biologist- Lakes Services Manager

LAKE CLIENT REFERENCES

Bohners Lake Sanitary District

Bohners Lake – Racine County

Contact: Harvey Kandler **Email:** harveykandler@yahoo.com **Phone:** 262-210-9101

Services used; Survey, Mapping, Management Planning, Permitting, & Aquatic Herbicides

City of Marion

Marion Millpond – Waupaca County

Contact: David Mattes **Email:** dmattes@cityofmarionwi.gov **Phone:** 715-754-2125

Services used; Survey, Mapping, Aquatic Herbicides, Grant Writing, Management Planning

Lake Puckaway Protection and Rehabilitation District

Lake Puckaway – Marquette & Green Lake County

Contact: Dustin Esselman **Email:** dustinesselman@icloud.com **Phone:** 815-382-3750

Services used; Survey, Mapping, Management Planning, Permitting, & Aquatic Herbicides

Montello Lake Inland Lake Protection & Rehabilitation District

Montello Lake – Marquette County

Contact: Dan Easter **Email:** easterdan64@yahoo.com **Phone:** 414-550-7768

Services used; Survey, Mapping, Management Planning, Permitting, & Aquatic Herbicides

Waterford Waterway Management District

Waterford Waterway / Tichigan Lake – Racine County

Contact: Steve Larry **Email:** scl.schrm@gmail.com **Phone:** 630-740-4263

Services used; Survey, Mapping, Grants, Permitting, Aquatic Herbicides, Algae, Water Quality