

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: AIRR19416
Name: BIG MUSKEGO/BASS BAY P & R DISTRICT: Big Muskego Lake Containment/Suppression of Starry Stonewort
Type: Aquatic Invasives Grant
Subtype: Aquatic Invasives Early Detection and Response
Status: COMPLETE
Start Date: 08/05/2015
End Date: 12/31/2020
Purpose: The Big Muskego Lake/Bass Bay P & R District, in partnership with the City of Muskego and the Wisconsin Department of Natural Resources, will undertake a rapid response project on Big Muskego to control Starry Stonewort, an NR 40 prohibited species, at the three major boat launches (Boxhorn, Hunters and Durham). The project will include a full point intercept plant survey; Clean Boats, Clean Waters inspections at three launches and two years of chemical treatment of Starry Stonewort at 3 launches. The project deliverable will be a report containing the results of the P/I survey (raw data, distribution/density maps of Starry Stonewort, EWM, CLP and the top 7 native plants in terms of frequency of occurrence), results of the boat trailer survey by CBCW inspectors and CBCW data. All Clean Boats, Clean Waters data must be entered in the statewide SWIMS database.

Objective:
Comments: Grantee is BIG MUSKEGO/BASS BAY P & R DISTRICT
Outcome:
Study Design:
QA Measures:

People

| Name | Role | Status | Start Date | End Date | Organization | Comments |
|---------------------------|---------------|--------|------------|----------|--|----------|
| Big Muskego Lake/Bass Bay | GRANT_RECIPII | ACTIVE | 06/01/2016 | | Big Muskego Lake/Bass Bay P & R District | |
| Bunk, Heidi J | TEAM_MEMBER | ACTIVE | 07/03/2019 | | Wisconsin DNR | |
| Mosel, Kyle J | TEAM_MEMBER | ACTIVE | 07/03/2019 | | WISCONSIN DNR | |

Project Statuses

| Date | Reported By | Status | Comments |
|------|-------------|--------|----------|
|------|-------------|--------|----------|

Actions

| Action | Detailed Description | Start | End Date | Status |
|---------------|-------------------------|------------|------------|----------|
| Grant Awarded | Grant AIRR19416 awarded | 08/05/2015 | 12/31/2016 | COMPLETE |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|-----------------------------|---|--------------------------------|--------------|-----------------|
| APM Chemical Permit Request | Chemical Permit Details | 02/22/2016 | 10/01/2016 | APPROVED |
| Details: | Parameter | Value/Amount | Units | Comments |
| | APM Plan | N | | |
| | Algae | N | | |
| | Algimycin PWF Algaecide / Cyanobactericide | N | | |
| | Alligare Argos Algaecide and Herbicide | N | | |
| | Alligare Diquat Herbicide Landscape and Aquatic Herbicide | N | | |
| | Aqua Star | N | | |
| | AquaPro Herbicide | N | | |
| | AquaShade Aquatic Plant Growth Control | N | | |
| | AquaStrike | N | | |
| | Aquaneat Aquatic Herbicide | N | | |
| | Aquashadow Black Pond Colorant | N | | |
| | Aquathol K Aquatic Herbicide | N | | |
| | Aquathol Super K Granular Aquatic Herbicide | N | | |
| | Avast! SC Aquatic Herbicide | N | | |
| | Business Location License | N/A | | |
| | CO – Date Sent | 2/22/2016 | | |
| | CO-Date_Received | 2/22/2016 | | |
| | CONTROL_INVASIVES | N | | |
| | CONTROL_OTHER | N | | |
| | Captain Liquid Copper Algaecide | N | | |
| | Captain XTR Liquid Copper Algaecide | N | | |
| | Category 5 Certification Number | N/A | | |
| | Chemical Permit ID | 2435 | | |
| | Chemicals - Approved | Navigate, DMAIVM, Cutrine+/Ult | | |
| | Chemicals Permitted Previous Year | N/A | | |
| | Chinook | N | | |
| | Clearcast (general) | N | | |
| | Clearigate | N | | |
| | Clipper Herbicide | N | | |
| | Clipper SC Aquatic Herbicide | N | | |
| | Common reed (Phragmites australis) | N | | |
| | Common waterweed (Elodea canadensis) | N | | |
| | Common/Glossy Buckthorn | N | | |
| | Control - Algae | Y | | |
| | Control - Emergent water plants | N | | |
| | Control - Floating water plants | N | | |
| | Control - Submerged water plants | Y | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|--|-----------------------------|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Coontail (Ceratophyllum demersum) | Y | | | |
| Curly-leaf pondweed (Potamogeton crispus) | Y | | | |
| Current | N | | | |
| Cutrine-Plus Algaecide and Herbicide | N | | | |
| Cutrine-Plus Granular Algaecide | N | | | |
| Cutrine-Ultra Algaecide / Herbicide / cyanobactericide | N | | | |
| DMA 4 IVM Herbicide | N | | | |
| Earthtec Algaecide / Bactericide | N | | | |
| Element 3A Herbicide | N | | | |
| Estimated Acres | 60 | | | |
| Eurasian water-milfoil (Myriophyllum spicatum) | Y | | | |
| Expiration Date | 10/1/2016 | | | |
| Fee | 1270 | | | |
| Field Issued By | Heidi_Bunk | | | |
| Flowering Rush | N | | | |
| Flumioxazin 51% WDG - NonCrop | N | | | |
| Formula F-30 Algae Control | N | | | |
| Garlon 3A Herbicide | N | | | |
| Green Clean (general) | N | | | |
| Habitat (general) | N | | | |
| Harpoon (general) | N | | | |
| Harvester Landscape and Aquatic Herbicide | N | | | |
| Havoc Amine | N | | | |
| Hybrid Cattail | N | | | |
| Hybrid Watermilfoil | N | | | |
| Hydrothol 191 Aquatic Algicide and Herbicide | N | | | |
| Hydrothol Granular Aquatic Algaecide and Herbicide | N | | | |
| Improvement - swimming | N | | | |
| Japanese Knotweed | N | | | |
| K-Tea Aquatic Algaecide | N | | | |
| Komeen Aquatic Herbicide | N | | | |
| Komeen Crystal Aquatic Herbicide | N | | | |
| Lake Surface Area | 0 | | | |
| Lake Surface Area | | | | |
| Large Duckweed (Spirodela polyrhiza) | N | | | |
| Large Scale Treatment Form | N | | | |
| Maintain - Other Text | Starry Stonewort | | | |
| Maintain navigational channel | N | | | |
| Maintain private access - boating | Y | | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|--|----------------------|-------|----------|--------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Maintain private access - fishing | Y | | | |
| Milestone Herbicide | N | | | |
| More than 1 Property Owner | N/A | | | |
| NUISANCE_CAUSED_OTHER | Y | | | |
| Naiad | N | | | |
| Narrow-Leaf Cattail | N | | | |
| Nautique Aquatic Herbicide | N | | | |
| Navigate | N | | | |
| Navitrol DPF Aquatic Herbicide | N | | | |
| Navitrol Landscape and Aquatic Herbicide | N | | | |
| Nutri-Sorb | N | | | |
| Orb-3 (general) | N | | | |
| Overflow Controlled | N/A | | | |
| PLSS_DIRECTION | N/A | | | |
| PLSS_RANGE | N/A | | | |
| PLSS_SECTION | N/A | | | |
| PLSS_TOWNSHIP | N/A | | | |
| Payment Number | 1210 | | | |
| Permit County | Waukesha | | | |
| Permit End Year | 2016 | | | |
| Permit Latitude | 42.8784 | | | |
| Permit Longitude | -88.1142 | | | |
| Permit PLSS Section | 14 05N20E | | | |
| Permit Start Year | 2016 | | | |
| Permit WBIC | 762400, 763200 | | | |
| Permit Year | 2016 | | | |
| Phycomycin SCP Algaecide and Oxidizer | N | | | |
| Polaris | N | | | |
| Polaris AC | N | | | |
| Pond-Klear | N | | | |
| Pondweeds | N | | | |
| Private Pond | N | | | |
| ProcellaCOR EC | N | | | |
| Purple loosestrife (Lythrum salicaria) | N | | | |
| Reed Canary Grass | N | | | |
| Reed Manna Grass | N | | | |
| Refuge Herbicide | N | | | |
| Renovate 3 | N | | | |
| Renovate LZR Aquatic Herbicide | N | | | |
| Renovate LZR Max Aquatic Herbicide | N | | | |
| Renovate Max G Aquatic Herbicide | N | | | |
| Renovate OTF Aquatic Herbicide | N | | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|---|-----------------------------|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Reward Landscape and Aquatic Herbicide | N | | | |
| Rodeo Herbicide | N | | | |
| Roundup Custom for Aquatic & Terrestrial Use | N | | | |
| SCI-62 Algicide / Bactericide | N | | | |
| Sculpin G Aquatic Herbicide | N | | | |
| SeClear (general) | N | | | |
| SeClear G Algaecide and Water Quality Enhancer | N | | | |
| Sensitive Area | N | | | |
| Shoreklear-Plus Aquatic Herbicide | N | | | |
| Shredder Amine 4 | N | | | |
| Sonar A.S. | N | | | |
| Sonar Genesis Aquatic Herbicide | N | | | |
| Sonar H4C Aquatic Herbicide | N | | | |
| Sonar PR Precision Release | N | | | |
| Sonar Q Aquatic Herbicide | N | | | |
| Sonar RTU Aquatic Weed Herbicide | N | | | |
| Sonar SRP Aquatic Herbicide | N | | | |
| SonarOne Aquatic Herbicide | N | | | |
| Starry Stonewort | N | | | |
| Stingray Aquatic Herbicide | N | | | |
| Surface Water Discharge | N/A | | | |
| Symmetry NXG | N | | | |
| TREATMENT_AREA | Big Muskego | | | |
| Touchdown Pro | N | | | |
| Treatment Area Greater Than 5% | N/A | | | |
| Treatment Date | N | | | |
| Treatment Date | N | | | |
| Tribune Herbicide | N | | | |
| WPDES Coverage | N/A | | | |
| Waterbody Type | LAKE | | | |
| Waterbody have Public Access | N/A | | | |
| Weedar 64 Broadleaf Herbicide | N | | | |
| Weedestroy AM-40 Amine Salt - Selective Weed Killer | N | | | |
| Wind Direction | N/A | | | |
| Yellow Floating Heart | N | | | |
| Yellow Iris | N | | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|-------------------------------|---|---------------------|-----------------|-----------------|
| APM Chemical Treatment Record | Chemical treatment details | 06/06/2016 | 06/06/2016 | COMPLETE |
| Details: | Parameter | Value/Amount | Units | Comments |
| | Air Temperature | 71 | | |
| | Air Temperature Units | F | | |
| | Aqua-Pro Acres | 0 | | |
| | Aqua-Pro Gallons | 0 | | |
| | Aquaneat Acres | 0 | | |
| | Aquaneat Gallons | 0 | | |
| | Aquashade Acres | 0 | | |
| | Aquashade Pounds | 0 | | |
| | Aquastar Acres | 0 | | |
| | Aquastar Gallons | 0 | | |
| | Aquathol Acres | 0 | | |
| | Aquathol Gallons | 0 | | |
| | Aquathol K Acres | 0 | | |
| | Aquathol K Gallons | 8.25 | | |
| | Aquathol Super K, # Acres | 0 | | |
| | Aquathol Super K, # Pounds | 0 | | |
| | Aquathol, # Acres Gallons | 6 | | |
| | Aquathol, # Pounds | 0 | | |
| | Avast Acres | 0 | | |
| | Avast Gallons | 0 | | |
| | Broad-leaved cattail (Typha latifolia) | SP | | |
| | Captain XTR, # Acres | 0 | | |
| | Captain XTR, # Gallons | 0 | | |
| | Clasping-leaf pondweed (Potamogeton richardsonii) | SP | | |
| | Clearcast Acres | 0 | | |
| | Clearcast Gallons | 0 | | |
| | Clearigate Acres | 0 | | |
| | Clearigate Gallons | 0 | | |
| | Common waterweed (Elodea canadensis) | SP | | |
| | Contains Herbicide totals | Y | | |
| | Coontail (Ceratophyllum demersum) | SP | | |
| | Copper Acres | 0 | | |
| | Copper Liquid, # Acres | 0 | | |
| | Copper Liquid, # Gallons | 0 | | |
| | Copper Pounds | 0 | | |
| | Curly-leaf pondweed (Potamogeton crispus) | TS | | |
| | Citrine Acres | 0 | | |
| | Citrine Liquid Acres | 0 | | |
| | Citrine Liquid Gallons | 0 | | |
| | Citrine Plus Acres | 0 | | |
| | Citrine Plus Liquid Acres | 0 | | |
| | Citrine Plus Liquid Gallons | 0 | | |
| | Citrine Plus Pounds | 0 | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|---|----------------------|-------|----------|--------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Cutrine Pounds | 0 | | | |
| Cutrine Ultra Acres | 0 | | | |
| Cutrine Ultra Gallons | 0 | | | |
| DMA 4 IVM Acres | 13.5 | | | |
| DMA 4 IVM Gallons | 58.25 | | | |
| Diquat Acres | 0 | | | |
| Diquat Gallons | 0 | | | |
| Diquat Liquid Acres | 0 | | | |
| Diquat Pounds | 0 | | | |
| Duration of Chemical Residualts | 21 days | | | |
| Endotholl Acres | 0 | | | |
| Endotholl Liquid Acres | 0 | | | |
| Endotholl Liquid Gallons | 0 | | | |
| Endotholl Pounds | 0 | | | |
| Eurasian water-milfoil (Myriophyllum spicatum) | TS | | | |
| Filamentous Algae | SP | | | |
| Flat-stem pondweed (Potamogeton zosteriformis) | SP | | | |
| Floating-leaf pondweed (Potamogeton natans) | SP | | | |
| Floridone Acres | 0 | | | |
| Floridone Gallons | 0 | | | |
| Glyphosate Acres | 0 | | | |
| Glyphosate Gallons | 0 | | | |
| Glyphosate Liquid Acres | 0 | | | |
| Glyphosate Pounds | 0 | | | |
| Green Clean Acres | 0 | | | |
| Green Clean Gallons | 0 | | | |
| H2O2 Acres | 0 | | | |
| H2O2 Pounds | 0 | | | |
| Habitat Acres | 0 | | | |
| Habitat Gallons | 0 | | | |
| Harvester Acres | 0 | | | |
| Harvester Gallons | 0 | | | |
| Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? | Y | | | |
| Hydrothol Acres | 0 | | | |
| Hydrothol Gallons | 0 | | | |
| Illinois pondweed (Potamogeton illinoensis) | SP | | | |
| Imazapyr Acres | 0 | | | |
| Imazapyr Gallons | 0 | | | |
| Large-leaf pondweed (Potamogeton amplifolius) | SP | | | |
| Muskgrasses (Chara) | SP | | | |
| Nautique Acres | 0 | | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|---|-----------------------------|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Nautique Gallons | 0 | | | |
| Navigate Acres | 0 | | | |
| Navigate, # Pounds | 0 | | | |
| Northern water-milfoil (Myriophyllum sibiricum) | SP | | | |
| Onsite Supervision | No | | | |
| Permit County | Waukesha | | | |
| Permit Year | 2016 | | | |
| Person Completing Form | Brian J Suffern | | | |
| Phycomycin Acres | 0 | | | |
| Phycomycin Pounds | 0 | | | |
| Polaris Acres | 0 | | | |
| Polaris Gallons | 0 | | | |
| Refuge Acres | 0 | | | |
| Refuge Gallons | 0 | | | |
| Reward Acres | 0 | | | |
| Reward Gallons | 0 | | | |
| Reward Liquid Acres | 0 | | | |
| Reward Pounds | 0 | | | |
| Rodeo Acres | 0 | | | |
| Rodeo Gallons | 0 | | | |
| SCI-62 Acres | 0 | | | |
| SCI-62 Gallons | 0 | | | |
| Sculpin G Acres | 0 | | | |
| Sculpin G Pounds | 0 | | | |
| SeClear Acres | 0 | | | |
| SeClear Gallons | 0 | | | |
| ShoreKlear Acres | 0 | | | |
| ShoreKlear Gallons | 0 | | | |
| Sogo pondweed (Stuckenia pectinata) | SP | | | |
| Sonar AS Gallons | 0 | | | |
| Sonor AS Acres | 0 | | | |
| Touchdown Pro Acres | 0 | | | |
| Touchdown Pro Gallons | 0 | | | |
| Treatment Date | 6/6/2016 | | | |
| Treatment End Time | 15:30 | | | |
| Treatment Start Time | 9:00 | | | |
| Tribune Acres | 0 | | | |
| Tribune Gallons | 0 | | | |
| Vectobac Acres | 0 | | | |
| Vectobac Gallons | 0 | | | |
| Water Temperature | 73 | | | |
| Water Temperature Units | F | | | |
| Water Use Restriction - Animal Water | N | | | |
| Water Use Restriction - Crop Irrigation | N | | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | | Start | End Date | Status |
|----------|--|--------------|-------|----------|--------|
| Details: | Parameter | Value/Amount | Units | Comments | |
| | Water Use Restriction - Drinking Water | N | | | |
| | Water Use Restriction - Fish Consumption | N | | | |
| | Water Use Restriction - None | N | | | |
| | Water Use Restriction - Other Irrigation | N | | | |
| | Water Use Restriction - Swimming | N | | | |
| | Watershield (Brasenia schreberi) | SP | | | |
| | White water lily (Nymphaea odorata) | SP | | | |
| | Wind Direction | W | | | |
| | Wind Speed | 5-20 | | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|-------------------------------|--|---------------------|--------------|-----------------|
| APM Chemical Treatment Record | Chemical treatment details | 06/27/2016 | 06/27/2016 | COMPLETE |
| Details: | Parameter | Value/Amount | Units | Comments |
| | Air Temperature | 86 | | |
| | Air Temperature Units | F | | |
| | Aqua-Pro Acres | 0 | | |
| | Aqua-Pro Gallons | 0 | | |
| | Aquaneat Acres | 0 | | |
| | Aquaneat Gallons | 0 | | |
| | Aquashade Acres | 0 | | |
| | Aquashade Pounds | 0 | | |
| | Aquastar Acres | 0 | | |
| | Aquastar Gallons | 0 | | |
| | Aquathol Acres | 0 | | |
| | Aquathol Gallons | 0 | | |
| | Aquathol K Acres | 0 | | |
| | Aquathol K Gallons | 0 | | |
| | Aquathol Super K, # Acres | 0 | | |
| | Aquathol Super K, # Pounds | 0 | | |
| | Aquathol, # Acres Gallons | 0 | | |
| | Aquathol, # Pounds | 0 | | |
| | Avast Acres | 0 | | |
| | Avast Gallons | 0 | | |
| | Broad-leaved cattail (Typha latifolia) | SP | | |
| | Captain XTR, # Acres | 0 | | |
| | Captain XTR, # Gallons | 0 | | |
| | Clearcast Acres | 0 | | |
| | Clearcast Gallons | 0 | | |
| | Clearigate Acres | 0 | | |
| | Clearigate Gallons | 0 | | |
| | Common waterweed (Elodea canadensis) | SP | | |
| | Contains Herbicide totals | Y | | |
| | Coontail (Ceratophyllum demersum) | SP | | |
| | Copper Acres | 0 | | |
| | Copper Liquid, # Acres | 0 | | |
| | Copper Liquid, # Gallons | 0 | | |
| | Copper Pounds | 0 | | |
| | Citrine Acres | 0 | | |
| | Citrine Liquid Acres | 0 | | |
| | Citrine Liquid Gallons | 0 | | |
| | Citrine Plus Acres | 0.75 | | |
| | Citrine Plus Liquid Acres | 0 | | |
| | Citrine Plus Liquid Gallons | 0 | | |
| | Citrine Plus Pounds | 34 | | |
| | Citrine Pounds | 0 | | |
| | Citrine Ultra Acres | 2.8 | | |
| | Citrine Ultra Gallons | 15 | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|---------------------------|---|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| | DMA 4 IVM Acres | 0 | | |
| | DMA 4 IVM Gallons | 0 | | |
| | Diquat Acres | 0 | | |
| | Diquat Gallons | 0 | | |
| | Diquat Liquid Acres | 0 | | |
| | Diquat Pounds | 0 | | |
| | Duration of Chemical Residualts | 7 days | | |
| | Endotholl Acres | 0 | | |
| | Endotholl Liquid Acres | 0 | | |
| | Endotholl Liquid Gallons | 0 | | |
| | Endotholl Pounds | 0 | | |
| | Eurasian water-milfoil (Myriophyllum spicatum) | SP | | |
| | Filamentous Algae | SP | | |
| | Flat-stem pondweed (Potamogeton zosteriformis) | SP | | |
| | Floating-leaf pondweed (Potamogeton natans) | SP | | |
| | Floridone Acres | 0 | | |
| | Floridone Gallons | 0 | | |
| | Glyphosate Acres | 0 | | |
| | Glyphosate Gallons | 0 | | |
| | Glyphosate Liquid Acres | 0 | | |
| | Glyphosate Pounds | 0 | | |
| | Green Clean Acres | 0 | | |
| | Green Clean Gallons | 0 | | |
| | H2O2 Acres | 0 | | |
| | H2O2 Pounds | 0 | | |
| | Habitat Acres | 0 | | |
| | Habitat Gallons | 0 | | |
| | Harvester Acres | 0 | | |
| | Harvester Gallons | 0 | | |
| | Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? | Y | | |
| | Hydrothol Acres | 2.8 | | |
| | Hydrothol Gallons | 1.32 | | |
| | Imazapyr Acres | 0 | | |
| | Imazapyr Gallons | 0 | | |
| | Large Duckweed (Spirodela polyrhiza) | SP | | |
| | Muskgrasses (Chara) | SP | | |
| | Nautique Acres | 0 | | |
| | Nautique Gallons | 0 | | |
| | Navigate Acres | 0 | | |
| | Navigate, # Pounds | 0 | | |
| | Onsite Supervision | No | | |
| | Permit County | Waukesha | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|--|----------------------|-------|----------|--------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Permit Year | 2016 | | | |
| Person Completing Form | Brian J Suffern | | | |
| Phycomycin Acres | 0 | | | |
| Phycomycin Pounds | 0 | | | |
| Polaris Acres | 0 | | | |
| Polaris Gallons | 0 | | | |
| Refuge Acres | 0 | | | |
| Refuge Gallons | 0 | | | |
| Reward Acres | 0 | | | |
| Reward Gallons | 0 | | | |
| Reward Liquid Acres | 0 | | | |
| Reward Pounds | 0 | | | |
| Rodeo Acres | 0 | | | |
| Rodeo Gallons | 0 | | | |
| SCI-62 Acres | 0 | | | |
| SCI-62 Gallons | 0 | | | |
| Sculpin G Acres | 0 | | | |
| Sculpin G Pounds | 0 | | | |
| SeClear Acres | 0 | | | |
| SeClear Gallons | 0 | | | |
| ShoreKlear Acres | 0 | | | |
| ShoreKlear Gallons | 0 | | | |
| Sogo pondweed (Stuckenia pectinata) | SP | | | |
| Sonar AS Gallons | 0 | | | |
| Sonor AS Acres | 0 | | | |
| Starry Stonewort | TS | | | |
| Touchdown Pro Acres | 0 | | | |
| Touchdown Pro Gallons | 0 | | | |
| Treatment Date | 6/27/2016 | | | |
| Treatment End Time | 13:15 | | | |
| Treatment Start Time | 9:15 | | | |
| Tribune Acres | 0 | | | |
| Tribune Gallons | 0 | | | |
| Vectobac Acres | 0 | | | |
| Vectobac Gallons | 0 | | | |
| Water Temperature | 80 | | | |
| Water Temperature Units | F | | | |
| Water Use Restriction - Animal Water | N | | | |
| Water Use Restriction - Crop Irrigation | N | | | |
| Water Use Restriction - Drinking Water | N | | | |
| Water Use Restriction - Fish Consumption | N | | | |
| Water Use Restriction - None | N | | | |
| Water Use Restriction - Other Irrigation | N | | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | | Detailed Description | | Start | End Date | Status |
|-----------------|--|-----------------------------|--------------|-----------------|-----------------|---------------|
| Details: | Parameter | Value/Amount | Units | Comments | | |
| | Water Use Restriction - Swimming | N | | | | |
| | Watershield (Brasenia schreberi) | SP | | | | |
| | White water lily (Nymphaea odorata) | SP | | | | |
| | Wild Celery | SP | | | | |
| | Wind Direction | N | | | | |
| | Wind Speed | 10 | | | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|-----------------------------|---|--------------------------------|-----------------|-----------------|
| APM Chemical Permit Request | Chemical Permit Details | 02/17/2017 | 10/01/2017 | APPROVED |
| Details: | Parameter | Value/Amount | Units | Comments |
| | APM Plan | N | | |
| | Algae | Y | | |
| | Algimycin PWF Algaecide / Cyanobactericide | N | | |
| | Alligare Argos Algaecide and Herbicide | N | | |
| | Alligare Diquat Herbicide Landscape and Aquatic Herbicide | N | | |
| | Alternative - Drawdown | N | | |
| | Alternative - Dredging | N | | |
| | Alternative - Manual Removal | N | | |
| | Alternative - Mechanical Harvesting | N | | |
| | Alternative - Nutrient Controls | N | | |
| | Alternative - Sediment Screens | N | | |
| | Alternative - Why Not Drawdown | May be considered; impacts hum | | |
| | Alternative - Why Not Dredging | Area too large | | |
| | Alternative - Why Not Manual | Area too large | | |
| | Alternative - Why Not Mechanical | Shallow water difficulty, cost | | |
| | Alternative - Why Not Nutrient Control | BMPs implemented but legacy ph | | |
| | Alternative - Why Not Sediment Screens | Area too large | | |
| | Aqua Star | N | | |
| | AquaPro Herbicide | N | | |
| | AquaShade Aquatic Plant Growth Control | N | | |
| | AquaStrike | N | | |
| | Aquaneat Aquatic Herbicide | N | | |
| | Aquashadow Black Pond Colorant | N | | |
| | Aquathol K Aquatic Herbicide | Y | | |
| | Aquathol Super K Granular Aquatic Herbicide | N | | |
| | Avast! SC Aquatic Herbicide | N | | |
| | Business Location License | 93-010049-005505 | | |
| | CO – Date Sent | 2/17/2017 | | |
| | CO-Date_Received | 2/17/2017 | | |
| | CONTROL_INVASIVES | Y | | |
| | CONTROL_OTHER | N | | |
| | Captain Liquid Copper Algaecide | N | | |
| | Captain XTR Liquid Copper Algaecide | N | | |
| | Category 5 Certification Number | 001517 | | |
| | Chemical Permit ID | 3767 | | |
| | Chemicals - Approved | Navigate, DMAIVM, Cutrine+/Ult | | |
| | Chemicals Permitted Previous | All | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|--|-------------------------------|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Year | | | | |
| Chinook | N | | | |
| Clearcast (general) | N | | | |
| Clearigate | N | | | |
| Clipper Herbicide | Y | | | |
| Clipper SC Aquatic Herbicide | N | | | |
| Comments | Edited on 7/2/2020 to correct | | | |
| Common reed (Phragmites australis) | N | | | |
| Common waterweed (Elodea canadensis) | N | | | |
| Common/Glossy Buckthorn | N | | | |
| Control - Algae | Y | | | |
| Control - Emergent water plants | N | | | |
| Control - Floating water plants | N | | | |
| Control - Submerged water plants | Y | | | |
| Coontail (Ceratophyllum demersum) | Y | | | |
| Curly-leaf pondweed (Potamogeton crispus) | Y | | | |
| Current | N | | | |
| Citrine-Plus Algaecide and Herbicide | Y | | | |
| Citrine-Plus Granular Algaecide | N | | | |
| Citrine-Ultra Algaecide / Herbicide / cyanobactericide | Y | | | |
| DMA 4 IVM Herbicide | Y | | | |
| Earthtec Algaecide / Bactericide | N | | | |
| Element 3A Herbicide | N | | | |
| Estimated Acres | 59.72 | | | |
| Eurasian water-milfoil (Myriophyllum spicatum) | Y | | | |
| Expiration Date | 10/1/2017 | | | |
| Fee | 1270 | | | |
| Field Issued By | Mary_Gansberg | | | |
| Flowering Rush | N | | | |
| Flumioxazin 51% WDG - NonCrop | N | | | |
| Formula F-30 Algae Control | N | | | |
| Garlon 3A Herbicide | N | | | |
| Green Clean (general) | N | | | |
| Habitat (general) | N | | | |
| Harpoon (general) | N | | | |
| Harvester Landscape and Aquatic Herbicide | N | | | |
| Havoc Amine | N | | | |
| Hybrid Cattail | N | | | |
| Hybrid Watermilfoil | N | | | |
| Hydrothol 191 Aquatic Algicide | N | | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|--|--------------------------------|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| and Herbicide | | | | |
| Hydrothol Granular Aquatic Algaecide and Herbicide | N | | | |
| Improvement - swimming | N | | | |
| Japanese Knotweed | N | | | |
| K-Tea Aquatic Algaecide | N | | | |
| Komeen Aquatic Herbicide | N | | | |
| Komeen Crystal Aquatic Herbicide | N | | | |
| Lake Surface Area | 2200 | | | |
| Large Duckweed (Spirodela polyrhiza) | N | | | |
| Large Scale Treatment Form | N | | | |
| Maintain - Other Text | SSW | | | |
| Maintain navigational channel | Y | | | |
| Maintain private access - boating | Y | | | |
| Maintain private access - fishing | N | | | |
| Method of Application | Spray pumps, blowers, spreader | | | |
| Milestone Herbicide | N | | | |
| More than 1 Property Owner | Y | | | |
| NUISANCE_CAUSED_OTHER | Y | | | |
| Naiad | N | | | |
| Narrow-Leaf Cattail | N | | | |
| Nautique Aquatic Herbicide | N | | | |
| Navigate | Y | | | |
| Navitrol DPF Aquatic Herbicide | N | | | |
| Navitrol Landscape and Aquatic Herbicide | N | | | |
| Nutri-Sorb | N | | | |
| Orb-3 (general) | N | | | |
| Overflow Controlled | N/A | | | |
| PLSS_DIRECTION | N/A | | | |
| PLSS_RANGE | N/A | | | |
| PLSS_SECTION | N/A | | | |
| PLSS_TOWNSHIP | N/A | | | |
| Payment Number | 001227 | | | |
| Permit County | Waukesha | | | |
| Permit End Year | 2017 | | | |
| Permit Latitude | 42.87652790 | | | |
| Permit Longitude | -88.112790 | | | |
| Permit PLSS Section | 14 05N20E | | | |
| Permit Start Year | 2017 | | | |
| Permit WBIC | 762400, 763200 | | | |
| Permit Year | 2017 | | | |
| Phycomycin SCP Algaecide and Oxidizer | N | | | |
| Polaris | N | | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|--|-------------------------------|-------|----------|--------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Polaris AC | N | | | |
| Pond-Klear | N | | | |
| Pondweeds | N | | | |
| Private Pond | N | | | |
| ProcellaCOR EC | N | | | |
| Purple loosestrife (Lythrum salicaria) | N | | | |
| Reed Canary Grass | N | | | |
| Reed Manna Grass | N | | | |
| Refuge Herbicide | N | | | |
| Renovate 3 | N | | | |
| Renovate LZR Aquatic Herbicide | N | | | |
| Renovate LZR Max Aquatic Herbicide | N | | | |
| Renovate Max G Aquatic Herbicide | N | | | |
| Renovate OTF Aquatic Herbicide | N | | | |
| Reward Landscape and Aquatic Herbicide | N | | | |
| Rodeo Herbicide | N | | | |
| Roundup Custom for Aquatic & Terrestrial Use | N | | | |
| SCI-62 Algicide / Bactericide | N | | | |
| Sculpin G Aquatic Herbicide | N | | | |
| SeClear (general) | N | | | |
| SeClear G Algaecide and Water Quality Enhancer | N | | | |
| Sensitive Area | N | | | |
| Shoreklear-Plus Aquatic Herbicide | N | | | |
| Shredder Amine 4 | N | | | |
| Sonar A.S. | N | | | |
| Sonar Genesis Aquatic Herbicide | N | | | |
| Sonar H4C Aquatic Herbicide | N | | | |
| Sonar PR Precision Release | N | | | |
| Sonar Q Aquatic Herbicide | N | | | |
| Sonar RTU Aquatic Weed Herbicide | N | | | |
| Sonar SRP Aquatic Herbicide | N | | | |
| SonarOne Aquatic Herbicide | N | | | |
| Starry Stonewort | Y | | | |
| Stingray Aquatic Herbicide | N | | | |
| Surface Water Discharge | Y | | | |
| Symmetry NXG | N | | | |
| TREATMENT_AREA | Big Muskego Lake and Bass Bay | | | |
| Touchdown Pro | N | | | |
| Treatment Area Greater Than 5% | N | | | |
| Treatment Date | N | | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | | Detailed Description | | Start | End Date | Status |
|-----------------|--|-----------------------------|--------------|-----------------|-----------------|---------------|
| Details: | Parameter | Value/Amount | Units | Comments | | |
| | Treatment Date | N | | | | |
| | Tribune Herbicide | N | | | | |
| | WPDES Coverage | N | | | | |
| | Waterbody Type | LAKE | | | | |
| | Waterbody have Public Access | Y | | | | |
| | Weedar 64 Broadleaf Herbicide | N | | | | |
| | Weedestroy AM-40 Amine Salt - Selective Weed Killer | N | | | | |
| | Wind Direction | 001517 | | | | |
| | Yellow Floating Heart | N | | | | |
| | Yellow Iris | N | | | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|-------------------------------|--|---------------------|--------------|-----------------|
| APM Chemical Treatment Record | Chemical treatment details | 07/17/2017 | 07/17/2017 | COMPLETE |
| Details: | Parameter | Value/Amount | Units | Comments |
| | Air Temperature | 73 | | |
| | Air Temperature Units | F | | |
| | Aqua-Pro Acres | 0 | | |
| | Aqua-Pro Gallons | 0 | | |
| | Aquaneat Acres | 0 | | |
| | Aquaneat Gallons | 0 | | |
| | Aquashade Acres | 0 | | |
| | Aquashade Pounds | 0 | | |
| | Aquastar Acres | 0 | | |
| | Aquastar Gallons | 0 | | |
| | Aquathol Acres | 0 | | |
| | Aquathol Gallons | 0 | | |
| | Aquathol K Acres | 0 | | |
| | Aquathol K Gallons | 0 | | |
| | Aquathol Super K, # Acres | 0 | | |
| | Aquathol Super K, # Pounds | 0 | | |
| | Aquathol, # Acres Gallons | 0 | | |
| | Aquathol, # Pounds | 0 | | |
| | Avast Acres | 0 | | |
| | Avast Gallons | 0 | | |
| | Broad-leaved cattail (Typha latifolia) | SP | | |
| | Captain XTR, # Acres | 0 | | |
| | Captain XTR, # Gallons | 0 | | |
| | Clearcast Acres | 0 | | |
| | Clearcast Gallons | 0 | | |
| | Clearigate Acres | 0 | | |
| | Clearigate Gallons | 0 | | |
| | Contains Herbicide totals | Y | | |
| | Copper Acres | 0 | | |
| | Copper Liquid, # Acres | 0 | | |
| | Copper Liquid, # Gallons | 0 | | |
| | Copper Pounds | 0 | | |
| | Citrine Acres | 0 | | |
| | Citrine Liquid Acres | 0 | | |
| | Citrine Liquid Gallons | 0 | | |
| | Citrine Plus Acres | 0.75 | | |
| | Citrine Plus Liquid Acres | 0 | | |
| | Citrine Plus Liquid Gallons | 0 | | |
| | Citrine Plus Pounds | 50 | | |
| | Citrine Pounds | 0 | | |
| | Citrine Ultra Acres | 0 | | |
| | Citrine Ultra Gallons | 0 | | |
| | DMA 4 IVM Acres | 0 | | |
| | DMA 4 IVM Gallons | 0 | | |
| | Diquat Acres | 0 | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|---------------------------|---|-----------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| | Diquat Gallons | 0 | | |
| | Diquat Liquid Acres | 0 | | |
| | Diquat Pounds | 0 | | |
| | Duration of Chemical Residualts | 5 days | | |
| | Endotholl Acres | 0 | | |
| | Endotholl Liquid Acres | 0 | | |
| | Endotholl Liquid Gallons | 0 | | |
| | Endotholl Pounds | 0 | | |
| | Eurasian water-milfoil (Myriophyllum spicatum) | SP | | |
| | Floating-leaf pondweed (Potamogeton natans) | SP | | |
| | Floridone Acres | 0 | | |
| | Floridone Gallons | 0 | | |
| | Glyphosate Acres | 0 | | |
| | Glyphosate Gallons | 0 | | |
| | Glyphosate Liquid Acres | 0 | | |
| | Glyphosate Pounds | 0 | | |
| | Green Clean Acres | 0 | | |
| | Green Clean Gallons | 0 | | |
| | H2O2 Acres | 0 | | |
| | H2O2 Pounds | 0 | | |
| | Habitat Acres | 0 | | |
| | Habitat Gallons | 0 | | |
| | Harvester Acres | 0 | | |
| | Harvester Gallons | 0 | | |
| | Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? | Y | | |
| | Hydrothol Acres | 0 | | |
| | Hydrothol Gallons | 0 | | |
| | Imazapyr Acres | 0 | | |
| | Imazapyr Gallons | 0 | | |
| | Muskgrasses (Chara) | SP | | |
| | Nautique Acres | 0 | | |
| | Nautique Gallons | 0 | | |
| | Navigate Acres | 0 | | |
| | Navigate, # Pounds | 0 | | |
| | Onsite Supervision | No | | |
| | Permit County | Waukesha | | |
| | Permit Year | 2017 | | |
| | Person Completing Form | Brian J Suffern | | |
| | Phycomycin Acres | 0 | | |
| | Phycomycin Pounds | 0 | | |
| | Polaris Acres | 0 | | |
| | Polaris Gallons | 0 | | |
| | Refuge Acres | 0 | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|--|----------------------|-------|----------|--------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Refuge Gallons | 0 | | | |
| Reward Acres | 0 | | | |
| Reward Gallons | 0 | | | |
| Reward Liquid Acres | 0 | | | |
| Reward Pounds | 0 | | | |
| Rodeo Acres | 0 | | | |
| Rodeo Gallons | 0 | | | |
| SCI-62 Acres | 0 | | | |
| SCI-62 Gallons | 0 | | | |
| Sculpin G Acres | 0 | | | |
| Sculpin G Pounds | 0 | | | |
| SeClear Acres | 0 | | | |
| SeClear Gallons | 0 | | | |
| ShoreKlear Acres | 0 | | | |
| ShoreKlear Gallons | 0 | | | |
| Sogo pondweed (Stuckenia pectinata) | SP | | | |
| Sonar AS Gallons | 0 | | | |
| Sonor AS Acres | 0 | | | |
| Starry Stonewort | TS | | | |
| Touchdown Pro Acres | 0 | | | |
| Touchdown Pro Gallons | 0 | | | |
| Treatment Date | 7/17/2017 | | | |
| Treatment End Time | 12:30 | | | |
| Treatment Start Time | 11:00 | | | |
| Tribune Acres | 0 | | | |
| Tribune Gallons | 0 | | | |
| Vectobac Acres | 0 | | | |
| Vectobac Gallons | 0 | | | |
| Water Temperature | 76 | | | |
| Water Temperature Units | F | | | |
| Water Use Restriction - Animal Water | N | | | |
| Water Use Restriction - Crop Irrigation | N | | | |
| Water Use Restriction - Drinking Water | N | | | |
| Water Use Restriction - Fish Consumption | N | | | |
| Water Use Restriction - None | N | | | |
| Water Use Restriction - Other Irrigation | N | | | |
| Water Use Restriction - Swimming | N | | | |
| White water lily (Nymphaea odorata) | SP | | | |
| Wild Celery | SP | | | |
| Wind Direction | ENE | | | |
| Wind Speed | 5 | | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|-----------------------------|---|---------------------|-----------------|-----------------|
| APM Chemical Permit Request | Chemical Permit Details | 04/18/2018 | 05/01/2018 | APPROVED |
| Details: | Parameter | Value/Amount | Units | Comments |
| | APM Plan | N/A | | |
| | Algae | N | | |
| | Algimycin PWF Algaecide / Cyanobactericide | N | | |
| | Alligare Argos Algaecide and Herbicide | N | | |
| | Alligare Diquat Herbicide Landscape and Aquatic Herbicide | N | | |
| | Aqua Star | N | | |
| | AquaPro Herbicide | N | | |
| | AquaShade Aquatic Plant Growth Control | N | | |
| | AquaStrike | N | | |
| | Aquaneat Aquatic Herbicide | N | | |
| | Aquashadow Black Pond Colorant | N | | |
| | Aquathol K Aquatic Herbicide | N | | |
| | Aquathol Super K Granular Aquatic Herbicide | N | | |
| | Avast! SC Aquatic Herbicide | N | | |
| | Business Location License | N/A | | |
| | CO - # days | 9 | | |
| | CO - Date Sent | 5/1/2018 | | |
| | CO-Date_Received | 4/18/2018 | | |
| | CONTROL_INVASIVES | N | | |
| | CONTROL_OTHER | N | | |
| | Captain Liquid Copper Algaecide | N | | |
| | Captain XTR Liquid Copper Algaecide | N | | |
| | Category 5 Certification Number | N/A | | |
| | Chemical Permit ID | 6199 | | |
| | Chemicals - Approved | N/A | | |
| | Chemicals Permitted Previous Year | N/A | | |
| | Chinook | N | | |
| | Clearcast (general) | N | | |
| | Clearigate | N | | |
| | Clipper Herbicide | N | | |
| | Clipper SC Aquatic Herbicide | N | | |
| | Comments | N/A | | |
| | Common reed (Phragmites australis) | N | | |
| | Common waterweed (Elodea canadensis) | N | | |
| | Common/Glossy Buckthorn | N | | |
| | Control - Algae | Y | | |
| | Control - Emergent water plants | N | | |
| | Control - Floating water plants | N | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|--|-----------------------------|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Control - Submerged water plants | Y | | | |
| Coontail (Ceratophyllum demersum) | N | | | |
| Curly-leaf pondweed (Potamogeton crispus) | N | | | |
| Current | N | | | |
| Citrine-Plus Algaecide and Herbicide | N | | | |
| Citrine-Plus Granular Algaecide | N | | | |
| Citrine-Ultra Algaecide / Herbicide / cyanobactericide | N | | | |
| DMA 4 IVM Herbicide | N | | | |
| Earthtec Algaecide / Bactericide | N | | | |
| Element 3A Herbicide | N | | | |
| Estimated Acres | 56 | | | |
| Eurasian water-milfoil (Myriophyllum spicatum) | N | | | |
| Fee | 1270 | | | |
| Field - # days | Y | | | |
| Field Issued By | Heidi_Bunk | | | |
| Flowering Rush | N | | | |
| Flumioxazin 51% WDG - NonCrop | N | | | |
| Formula F-30 Algae Control | N | | | |
| Garlon 3A Herbicide | N | | | |
| Green Clean (general) | N | | | |
| Habitat (general) | N | | | |
| Harpoon (general) | N | | | |
| Harvester Landscape and Aquatic Herbicide | N | | | |
| Havoc Amine | N | | | |
| Hybrid Cattail | N | | | |
| Hybrid Watermilfoil | N | | | |
| Hydrothol 191 Aquatic Algicide and Herbicide | N | | | |
| Hydrothol Granular Aquatic Algaecide and Herbicide | N | | | |
| Improvement - swimming | N | | | |
| Japanese Knotweed | N | | | |
| K-Tea Aquatic Algaecide | N | | | |
| Komeen Aquatic Herbicide | N | | | |
| Komeen Crystal Aquatic Herbicide | N | | | |
| Lake Surface Area | 0 | | | |
| Lake Surface Area | | | | |
| Large Duckweed (Spirodela polyrhiza) | N | | | |
| Large Scale Treatment Form | N | | | |
| Maintain navigational channel | Y | | | |
| Maintain private access - boating | Y | | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|--|--------------------------------|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Maintain private access - fishing | N | | | |
| Milestone Herbicide | N | | | |
| More than 1 Property Owner | N/A | | | |
| NUISANCE_CAUSED_OTHER | N | | | |
| Naiad | N | | | |
| Narrow-Leaf Cattail | N | | | |
| Nautique Aquatic Herbicide | N | | | |
| Navigate | N | | | |
| Navitrol DPF Aquatic Herbicide | N | | | |
| Navitrol Landscape and Aquatic Herbicide | N | | | |
| Nutri-Sorb | N | | | |
| Orb-3 (general) | N | | | |
| Other Plants | Eurasian Watermilfoil, Curly-I | | | |
| Overflow Controlled | N/A | | | |
| PLSS_DIRECTION | E | | | |
| PLSS_RANGE | 20 | | | |
| PLSS_SECTION | 14 | | | |
| PLSS_TOWNSHIP | 05 | | | |
| Payment Number | 001241 | | | |
| Permit County | Waukesha | | | |
| Permit End Year | 2018 | | | |
| Permit Latitude | 42.87652790 | | | |
| Permit Longitude | -88.112790 | | | |
| Permit PLSS Section | 14 T5N R20E | | | |
| Permit Start Year | 2018 | | | |
| Permit WBIC | 762400, 763200 | | | |
| Phycomycin SCP Algaecide and Oxidizer | N | | | |
| Polaris | N | | | |
| Polaris AC | N | | | |
| Pond-Klear | N | | | |
| Pondweeds | N | | | |
| Private Pond | N | | | |
| ProcellaCOR EC | N | | | |
| Purple loosestrife (Lythrum salicaria) | N | | | |
| Reed Canary Grass | N | | | |
| Reed Manna Grass | N | | | |
| Refuge Herbicide | N | | | |
| Renovate 3 | N | | | |
| Renovate LZR Aquatic Herbicide | N | | | |
| Renovate LZR Max Aquatic Herbicide | N | | | |
| Renovate Max G Aquatic Herbicide | N | | | |
| Renovate OTF Aquatic Herbicide | N | | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|---|----------------------|-------|----------|--------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Reward Landscape and Aquatic Herbicide | N | | | |
| Rodeo Herbicide | N | | | |
| Roundup Custom for Aquatic & Terrestrial Use | N | | | |
| SCI-62 Algicide / Bactericide | N | | | |
| Sculpin G Aquatic Herbicide | N | | | |
| SeClear (general) | N | | | |
| SeClear G Algaecide and Water Quality Enhancer | N | | | |
| Sensitive Area | N/A | | | |
| Shoreklear-Plus Aquatic Herbicide | N | | | |
| Shredder Amine 4 | N | | | |
| Sonar A.S. | N | | | |
| Sonar Genesis Aquatic Herbicide | N | | | |
| Sonar H4C Aquatic Herbicide | N | | | |
| Sonar PR Precision Release | N | | | |
| Sonar Q Aquatic Herbicide | N | | | |
| Sonar RTU Aquatic Weed Herbicide | N | | | |
| Sonar SRP Aquatic Herbicide | N | | | |
| SonarOne Aquatic Herbicide | N | | | |
| Starry Stonewort | N | | | |
| Stingray Aquatic Herbicide | N | | | |
| Surface Water Discharge | N/A | | | |
| Symmetry NXG | N | | | |
| TREATMENT_AREA | Big Muskego Lake | | | |
| Touchdown Pro | N | | | |
| Treatment Area Greater Than 5% | N/A | | | |
| Treatment Date | N | | | |
| Treatment Date | N | | | |
| Tribune Herbicide | N | | | |
| WPDES Coverage | N/A | | | |
| Waterbody Type | LAKE | | | |
| Waterbody have Public Access | N/A | | | |
| Weedar 64 Broadleaf Herbicide | N | | | |
| Weedestroy AM-40 Amine Salt - Selective Weed Killer | N | | | |
| Wind Direction | N/A | | | |
| Yellow Floating Heart | N | | | |
| Yellow Iris | N | | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|-----------------------------|---|--------------------------------|-----------------|-----------------|
| APM Chemical Permit Request | Chemical permit details | 02/26/2019 | 02/26/2019 | APPROVED |
| Details: | Parameter | Value/Amount | Units | Comments |
| | APM Plan | Y | | |
| | Algae | N | | |
| | Algimycin PWF Algaecide / Cyanobactericide | N | | |
| | Alligare Argos Algaecide and Herbicide | N | | |
| | Alligare Diquat Herbicide Landscape and Aquatic Herbicide | N | | |
| | Alternative - Drawdown | N | | |
| | Alternative - Dredging | N | | |
| | Alternative - Manual Removal | N | | |
| | Alternative - Mechanical Harvesting | N | | |
| | Alternative - Nutrient Controls | N | | |
| | Alternative - Sediment Screens | N | | |
| | Alternative - Why Not Drawdown | May be considered but only inf | | |
| | Alternative - Why Not Dredging | Area too large; habitat impact | | |
| | Alternative - Why Not Manual | Area too large | | |
| | Alternative - Why Not Mechanical | shallow water difficulty, cost | | |
| | Alternative - Why Not Sediment Screens | Area too large | | |
| | Aqua Star | N | | |
| | AquaPro Herbicide | N | | |
| | AquaShade Aquatic Plant Growth Control | N | | |
| | AquaStrike | N | | |
| | Aquaneat Aquatic Herbicide | N | | |
| | Aquashadow Black Pond Colorant | N | | |
| | Aquathol K Aquatic Herbicide | N | | |
| | Aquathol Super K Granular Aquatic Herbicide | N | | |
| | Avast! SC Aquatic Herbicide | N | | |
| | Business Location License | 93-010049-005505 | | |
| | CO - # days | 1 | | |
| | CO - Date Sent | 02/26/2019 | | |
| | CONTROL_INVASIVES | Y | | |
| | CONTROL_OTHER | N | | |
| | Captain Liquid Copper Algaecide | N | | |
| | Captain XTR Liquid Copper Algaecide | N | | |
| | Category 5 Certification Number | 001517 | | |
| | Chemical Permit ID | 0 | | |
| | Chemicals - Approved | (Weedar 64, Platoon, or CleanA | | |
| | Chemicals Permitted Previous Year | All | | |
| | Chinook | N | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|---------------------------|--|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| | Clearcast (general) | N | | |
| | Clearigate | N | | |
| | Clipper Herbicide | N | | |
| | Clipper SC Aquatic Herbicide | N | | |
| | Common reed (Phragmites australis) | N | | |
| | Common waterweed (Elodea canadensis) | N | | |
| | Common/Glossy Buckthorn | N | | |
| | Control - Algae | Y | | |
| | Control - Emergent water plants | N | | |
| | Control - Floating water plants | N | | |
| | Control - Submerged water plants | Y | | |
| | Coontail (Ceratophyllum demersum) | Y | | |
| | Curly-leaf pondweed (Potamogeton crispus) | Y | | |
| | Current | N | | |
| | Citrine-Plus Algaecide and Herbicide | N | | |
| | Citrine-Plus Granular Algaecide | N | | |
| | Citrine-Ultra Algaecide / Herbicide / cyanobactericide | N | | |
| | DMA 4 IVM Herbicide | N | | |
| | Earthtec Algaecide / Bactericide | N | | |
| | Element 3A Herbicide | N | | |
| | Estimated Acres | 61.04 | | |
| | Eurasian water-milfoil (Myriophyllum spicatum) | Y | | |
| | Fee | 1,270 | | |
| | Field - # days | 36 | | |
| | Field - Date Issued | 04/17/2019 | | |
| | Field - Date Received | 02/26/2019 | | |
| | Field Issued By | Heidi_Bunk | | |
| | Flowering Rush | N | | |
| | Flumioxazin 51% WDG - NonCrop | N | | |
| | Formula F-30 Algae Control | N | | |
| | Garlon 3A Herbicide | N | | |
| | Green Clean (general) | N | | |
| | Habitat (general) | N | | |
| | Harpoon (general) | N | | |
| | Harvester Landscape and Aquatic Herbicide | N | | |
| | Havoc Amine | N | | |
| | Hybrid Cattail | N | | |
| | Hybrid Watermilfoil | N | | |
| | Hydrothol 191 Aquatic Algicide and Herbicide | N | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|---|--------------------------------|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Hydrothol Granular Aquatic Algaecide and Herbicide Improvement - swimming | N | | | |
| Japanese Knotweed | N | | | |
| K-Tea Aquatic Algaecide | N | | | |
| Komeen Aquatic Herbicide | N | | | |
| Komeen Crystal Aquatic Herbicide | N | | | |
| Lake Surface Area | 2200 | | | |
| Large Duckweed (Spirodela polyrhiza) | N | | | |
| Maintain navigational channel | Y | | | |
| Maintain private access - boating | Y | | | |
| Maintain private access - fishing | N | | | |
| Method of Application | Spray pumps, blowers, spreader | | | |
| Milestone Herbicide | N | | | |
| More than 1 Property Owner | Y | | | |
| NUISANCE_CAUSED_OTHER | N | | | |
| Naiad | N | | | |
| Narrow-Leaf Cattail | N | | | |
| Nautique Aquatic Herbicide | N | | | |
| Navigate | N | | | |
| Navitrol DPF Aquatic Herbicide | N | | | |
| Navitrol Landscape and Aquatic Herbicide | N | | | |
| Nutri-Sorb | N | | | |
| Orb-3 (general) | N | | | |
| Other Plants | Eurasian Watermilfoil, Curly-I | | | |
| Overflow Controlled | N/A | | | |
| PLSS_DIRECTION | E | | | |
| PLSS_RANGE | 20 | | | |
| PLSS_SECTION | 14 | | | |
| PLSS_TOWNSHIP | 05 | | | |
| Payment Number | 001252 | | | |
| Permit County | Waukesha | | | |
| Permit End Year | 2019 | | | |
| Permit Latitude | 42.87652790 | | | |
| Permit Longitude | -88.112790 | | | |
| Permit PLSS Section | 14 T05N R20E | | | |
| Permit Start Year | 2019 | | | |
| Permit WBIC | 762400, 763200 | | | |
| Phycomycin SCP Algaecide and Oxidizer | N | | | |
| Polaris | N | | | |
| Polaris AC | N | | | |
| Pond-Klear | N | | | |
| Pondweeds | N | | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|---------------------------|--|-----------------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| | Private Pond | N | | |
| | ProcellaCOR EC | N | | |
| | Purple loosestrife (Lythrum salicaria) | N | | |
| | Reed Canary Grass | N | | |
| | Reed Manna Grass | N | | |
| | Refuge Herbicide | N | | |
| | Renovate 3 | N | | |
| | Renovate LZR Aquatic Herbicide | N | | |
| | Renovate LZR Max Aquatic Herbicide | N | | |
| | Renovate Max G Aquatic Herbicide | N | | |
| | Renovate OTF Aquatic Herbicide | N | | |
| | Reward Landscape and Aquatic Herbicide | N | | |
| | Rodeo Herbicide | N | | |
| | Roundup Custom for Aquatic & Terrestrial Use | N | | |
| | SCI-62 Algicide / Bactericide | N | | |
| | Sculpin G Aquatic Herbicide | N | | |
| | SeClear (general) | N | | |
| | SeClear G Algaecide and Water Quality Enhancer | N | | |
| | Sensitive Area | N | | |
| | SharePoint_Number | AP-IP-SE-2019-68-2072 | | |
| | Shoreklear-Plus Aquatic Herbicide | N | | |
| | Shredder Amine 4 | N | | |
| | Sonar A.S. | N | | |
| | Sonar Genesis Aquatic Herbicide | N | | |
| | Sonar H4C Aquatic Herbicide | N | | |
| | Sonar PR Precision Release | N | | |
| | Sonar Q Aquatic Herbicide | N | | |
| | Sonar RTU Aquatic Weed Herbicide | N | | |
| | Sonar SRP Aquatic Herbicide | N | | |
| | SonarOne Aquatic Herbicide | N | | |
| | Starry Stonewort | N | | |
| | Stingray Aquatic Herbicide | N | | |
| | Surface Water Discharge | Y | | |
| | Symmetry NXG | N | | |
| | TREATMENT_AREA | Big Muskego Lake | | |
| | Touchdown Pro | N | | |
| | Treatment Area Greater Than 5% | N | | |
| | Tribune Herbicide | N | | |
| | WPDES Coverage | N | | |
| | Waterbody Type | Lake | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|--|-----------------------------|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Waterbody have Public Access | Y | | | |
| Weedar 64 Broadleaf Herbicide | N | | | |
| Weedestroy AM-40 Amine Salt - Selective Weed Killer | N | | | |
| Wind Direction | 001517 | | | |
| Yellow Floating Heart | N | | | |
| Yellow Iris | N | | | |

**Wisconsin Department of Natural Resources
SWIMS Project Summary**

| Action | Detailed Description | Start | End Date | Status |
|-------------------------------|---|-------------------------------|-----------------|-----------------|
| APM Chemical Treatment Record | | 08/05/2019 | | COMPLETE |
| Details: | Parameter | Value/Amount | Units | Comments |
| | Air Temperature | 68 | | |
| | Air Temperature Units | F | | |
| | Broad-leaved cattail (Typha latifolia) | SP | | |
| | Common waterweed (Elodea canadensis) | SP | | |
| | Contains Herbicide totals | Y | | |
| | Coontail (Ceratophyllum demersum) | SP | | |
| | Curly-leaf pondweed (Potamogeton crispus) | TS | | |
| | Duration of Chemical Residualts | 21 days | | |
| | Eurasian water-milfoil (Myriophyllum spicatum) | TS | | |
| | Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107? | Y | | |
| | Large Duckweed (Spirodela polyrhiza) | SP | | |
| | Large-leaf pondweed (Potamogeton amplifolius) | SP | | |
| | Muskgrasses (Chara) | SP | | |
| | OTHER_Aquatics | TS | | |
| | OTHER_Aquatics_Desc | wild celery, starry stonewart | | |
| | Onsite Supervision | No | | |
| | Permit County | Waukesha | | |
| | Permit Year | 2018 | | |
| | Person Completing Form | Brian Suffern | | |
| | Sogo pondweed (Stuckenia pectinata) | SP | | |
| | Treatment Date | 06/01/2018 | | |
| | Treatment End Time | 14:30 | | |
| | Treatment Start Time | 8:30 | | |
| | Water Temperature | 73 | | |
| | Water Temperature Units | F | | |
| | Water Use Restriction - Animal Water | N | | |
| | Water Use Restriction - Crop Irrigation | N | | |
| | Water Use Restriction - Drinking Water | N | | |
| | Water Use Restriction - Fish Consumption | N | | |
| | Water Use Restriction - None | N | | |
| | Water Use Restriction - Other Irrigation | N | | |
| | Water Use Restriction - Swimming | N | | |
| | Wind Direction | S | | |
| | Wind Speed | 5 | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Station ID | Name | Comments |
|------------|------------------|----------|
| 10007182 | Big Muskego Lake | |

Assessment Units

| WBIC | Segment | Local Name | Official Name |
|---------|---------|------------------|------------------|
| 762400 | 1 | Big Muskego Lake | Big Muskego Lake |
| 762500 | 1 | Muskego Creek | Muskego Creek |
| 5037798 | 1 | Unnamed Stream | Unnamed |

Lab Account Codes

| Account Code | Description | Start Date | End Date |
|--------------|-------------|------------|----------|
|--------------|-------------|------------|----------|

Forms

| Form Code | Form Name |
|-----------|-----------|
|-----------|-----------|

Methods

| Method Code | Description |
|-------------|-------------|
|-------------|-------------|

Fieldwork Events

| Start Date | Status | Field ID | Station ID | Station Name |
|------------------|----------|----------|------------|------------------|
| 07/07/2015 14:00 | COMPLETE | | 10007182 | Big Muskego Lake |

Documents

| Title | Description | Author | Published | Comments |
|-------|-------------|--------|-----------|----------|
|-------|-------------|--------|-----------|----------|

Budget

Combined Budgets:
 Combined SLOH:
 Combined Total:

Funding

| Organization | Source | Type | Amount | Start Date | End Date |
|--------------|--------|------|--------|------------|----------|
|--------------|--------|------|--------|------------|----------|