

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: ACEI22319
Name: NORTH & SOUTH TWIN LAKES P & R DISTRICT: North and South Twin EWM Control and Prevention Project 2019-21
Type: Aquatic Invasives Grant
Subtype: Aquatic Invasives Control
Status: ACTIVE
Start Date: 04/15/2019
End Date: 06/30/2022
Purpose: North and South Twin Lakes P&R District is sponsoring and ACEI grant on North and South Twin Lakes in Vilas County, to be completed by December 2021.

Project Activities:

1. Integrated pest management for EWM using fluridone on South Twin.
2. Integrated pest management for EWM using ProcellaCOR, DASH, and hand harvesting on North Twin
3. Herbicide concentration monitoring on North and South Twin
4. Point intercept survey on South Twin in 2018, 2020, 2021
5. Clean Boats Clean Waters (CBCW) efforts

Project deliverables include:

1. Water quality results and CBCW entered into SWIMS
2. Annual AIS monitoring and control strategy reports
3. Point Intercept and EWM Mapping Surveys
4. Herbicide concentration results
5. Final report summarizing AIS mgmt. and future AIS mgmt. and monitoring suggestions

Specific project conditions:

Final report needs DNR review and approval.

WDNR Lakes Management Coordinator will be provided with an electronic (pdf or word) copy of annual reports, final report, survey data, and all maps and GIS from the project.

Objective:

Comments: Grantee is NORTH & SOUTH TWIN LAKES P & R DISTRICT

Outcome:

Study Design:

QA Measures:

People

| Name | Role | Status | Start Date | End Date | Organization | Comments |
|----------------------------|-------------|--------|------------|------------|---|----------|
| North and South Twin Lakes | GRANT_RECIP | ACTIVE | 04/15/2019 | 06/30/2022 | North and South Twin Lakes Riparian Association | |

Project Statuses

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

Actions

| Action | Detailed Description | Start | End Date | Status |
|---------------|-------------------------|------------|------------|----------|
| Grant Awarded | Grant ACEI22319 awarded | 04/15/2019 | 06/30/2022 | COMPLETE |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|-----------------------------|---|-------------------------------|--------------|-----------------|
| APM Chemical Permit Request | Chemical permit details | 06/20/2019 | 06/20/2019 | APPROVED |
| Details: | Parameter | Value/Amount | Units | Comments |
| | APM Plan | Y | | |
| | Algae | N | | |
| | Algimycin PWF Algaecide / Cyanobactericide | 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 | Not an option | | |
| | Alternative - Why Not Dredging | too costly/not an option | | |
| | Alternative - Why Not Manual Mechanical | too large dense bed | | |
| | Alternative - Why Not Nutrient Control | Spreads plant fragments as in | | |
| | Alternative - Why Not Sediment Screens | Not site specific | | |
| | Alternative - Why Not Aqua Star | too large an area | | |
| | 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 | 0 | | |
| | CO - Date Sent | 06/20/2019 | | |
| | CONTROL_INVASIVES | Y | | |
| | CONTROL_OTHER | N | | |
| | Captain Liquid Copper Algaecide | N | | |
| | Captain XTR Liquid Copper Algaecide | N | | |
| | Category 5 Certification Number | 061742 | | |
| | Chemical Permit ID | 0 | | |
| | Chemicals - Approved | ProcellaCOR | | |
| | Chemicals Permitted Previous Year | None | | |
| | Chinook | N | | |
| | Clearcast (general) | N | | |
| | Clearigate | N | | |
| | Clipper Herbicide | N | | |

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

| Action | Detailed Description | Start | End Date | Status |
|---------------------------|--|--------------|-----------------|---------------|
| Details: Parameter | Value/Amount | Units | Comments | |
| | Clipper SC Aquatic Herbicide | N | | |
| | Common reed (Phragmites australis) | N | | |
| | Common waterweed (Elodea canadensis) | N | | |
| | Common/Glossy Buckthorn | N | | |
| | Control - Algae | N | | |
| | Control - Emergent water plants | N | | |
| | Control - Floating water plants | N | | |
| | 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 | 0.56 | | |
| | Eurasian water-milfoil (Myriophyllum spicatum) | Y | | |
| | Fee | 45 | | |
| | Field - Date Issued | 06/21/2019 | | |
| | Field - Date Received | 06/20/2019 | | |
| | Field Issued By | Mark_Sundeen | | |
| | 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 | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|--|--------------------------------|-------|----------|--------|
| Details: Parameter | Value/Amount | Units | Comments | |
| Komeen Aquatic Herbicide | N | | | |
| Komeen Crystal Aquatic Herbicide | N | | | |
| Lake Surface Area | 129 | | | |
| Large Duckweed (Spirodela polyrhiza) | N | | | |
| Maintain navigational channel | N | | | |
| Maintain private access - boating | N | | | |
| Maintain private access - fishing | N | | | |
| Method of Application | metered, weighted drop lines f | | | |
| 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 | | | |
| Overflow Controlled | N | | | |
| PLSS_DIRECTION | W | | | |
| PLSS_RANGE | 16 | | | |
| PLSS_SECTION | 28 | | | |
| PLSS_TOWNSHIP | 33 | | | |
| Payment Number | 841 | | | |
| Permit County | Polk | | | |
| Permit End Year | 2019 | | | |
| Permit Latitude | 45.3147806 | | | |
| Permit Longitude | -92.3690120 | | | |
| Permit PLSS Section | 28 33N16W | | | |
| Permit Start Year | 2019 | | | |
| Permit WBIC | 2623900 | | | |
| 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 | | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

| Action | Detailed Description | Start | End Date | Status |
|---|-----------------------|-------|----------|--------|
| Details: Parameter | Value/Amount | Units | Comments | |
| 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-NO-2019-49-5084 | | | |
| 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 | North Twin Lake | | | |
| Touchdown Pro | N | | | |
| Treatment Area Greater Than 5% | 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 | 061742 | | | |
| Yellow Floating Heart | N | | | |
| Yellow Iris | N | | | |

Wisconsin Department of Natural Resources SWIMS Project Summary

Monitoring Stations

| Station ID | Name | Comments |
|------------|------|----------|
|------------|------|----------|

Assessment Units

| WBIC | Segment | Local Name | Official Name |
|---------|---------|------------|--------------------|
| 1623700 | 1 | Twin Lakes | Twin Lakes (South) |
| 1623800 | 1 | Twin Lakes | Twin Lakes (North) |

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 |
|------------|--------|----------|------------|--------------|
|------------|--------|----------|------------|--------------|

Documents

| Title | Description | Author | Published | Comments |
|--|-------------|---------|------------|----------|
| North & South Twin Lake - EWM - Final Report -2019 | | Onterra | 10/15/2019 | |

Budget

Combined Budgets:
 Combined SLOH:
 Combined Total:

Funding

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