

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: AEPP47016

Name: NORTH LAKE LAND DISCOVERY CENTER: Town of Winchester Lake Mgmt Planning - Phase 2

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Education

Status: COMPLETE

Start Date: 2/15/2016

End Date: 12/31/2018

Purpose: North Lakeland Discovery Center is sponsoring an AEPP grant to study Rainbow, Tamarack and Birch Lakes in Vilas County. The project will focus on developing a Lake Management Plan (LMP) for Rainbow, Tamarack and Birch Lakes and conducting AIS education and monitoring.

Project activities include: 1) Stakeholder participation (2013 stakeholder survey, planning meetings (up to 2), kick-off meeting, wrap-up meeting, news release(s), and newsletter article); 2) Water quality sampling and analysis; 3) Watershed assessment and P load modeling; 4) Fisheries assessment; 5) Shoreline and coarse woody habitat assessment; 6) Early-season AIS monitoring and professional Dreissena monitoring; 7) Aquatic plant surveys (PI survey, acoustic, community mapping, substrate mapping); 8) Volunteer AIS and lake level monitoring and watercraft inspections; 9) Data analysis; 10) Develop LMP; 11) Hire AIS Coordinator and Water Education Intern; 12) AIS educational activities.

Project deliverables include: 1) Stakeholder survey, news release(s), and newsletter article; 2) Water chemistry data; 3) Watershed maps and modeling data; 4) PI, shoreland, and coarse woody habitat data; 5) Aquatic plant community and substrate maps; 6) LMP; 6) Hired staff; 7) AIS educational products and events.

Specific conditions for this project: 1) Draft of stakeholder survey needs to be submitted to Lakes Management Coordinator for review and approval before sending to public; 2) Draft of LMP needs Dept review and approval.

WDNR Lakes Management Coordinator will be provided with an electronic (pdf or word) copy of LMP, news release(s), newsletter article, any AIS educational products, stakeholder survey, and all data and maps from the project.

Objective:

Comments: Grantee is NORTH LAKE LAND DISCOVERY CENTER

Outcome:

Study Design:

QA Measures:

People

| Name | Role | Status | Start Date | End Date | Organization | Comments |
|---------------------------------|-----------------|----------|------------|-----------|----------------------------------|----------|
| Heald, Emily | COORDINATOR | COMPLETE | 3/22/2017 | 4/11/2022 | UW Madison Division of Extension | |
| Hoyman, Tim | LEAD_EQUIPMENT | ACTIVE | 6/2/2016 | | Onterra, LLC | |
| Kretschmann, Anne | APPLICANT | ACTIVE | 6/2/2016 | | North Lakeland Discovery Center | |
| North Lakeland Discovery Center | GRANT_RECIPIENT | ACTIVE | 6/1/2016 | | North Lakeland Discovery Center | |
| Oberleitner, Brandon | TEAM_MEMBER | ACTIVE | 5/3/2017 | | North Lakeland Discovery Center | |
| Platt, Heather | TEAM_MEMBER | ACTIVE | 5/3/2017 | | North Lakeland Discovery Center | |

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|-----------------------|-------------|--------|----------|--|------------------------------------|--|
| State Lab of Hygiene, | LABORATORY | ACTIVE | 6/2/2016 | | State Lab of Hygiene | |
| Tesensky, John | TEAM_MEMBER | ACTIVE | 5/3/2017 | | North Lakeland Discovery Center | |

Project Statuses

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

Actions

| Action | Detailed Description | Start Date | End Date | Status |
|---|---|------------|------------|----------|
| Grant Awarded | Birch Lake | 2/15/2016 | 12/31/2018 | COMPLETE |
| Grant Awarded | Rainbow | 2/15/2016 | 12/31/2018 | PROPOSED |
| Shoreland Monitoring, Assessment, Inventory | Shoreland Monitoring, Assessment or Inventory | 2/15/2016 | 12/31/2018 | PROPOSED |

Monitoring Stations

| Station ID | Name | Comments |
|------------|--|----------|
| 10006006 | Birch Lake (Vilas County) | |
| 643467 | Birch Lake - Deep Hole | |
| 10018826 | Birch Lake -- Access at S Side Of Lake | |
| 10006368 | Rainbow Lake | |
| 643255 | Rainbow Lake - Deep Hole | |
| 10006369 | Tamarack Lake | |
| 643339 | Tamarack Lake - Deep Hole | |

Assessment Units

| WBIC | Segment | Local Name | Official Name |
|---------|---------|--------------------|--------------------|
| 2310500 | 1 | Rainbow Creek | Rainbow Creek |
| 2310800 | 1 | Rainbow Lake | Rainbow Lake |
| 2310900 | 1 | Tamarack Lake | Tamarack Lake |
| 2311100 | 1 | Birch Lake | Birch Lake |
| 2311200 | 1 | Little Birch Creek | Little Birch Creek |

Lab Account Codes

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

Forms

| Form Code | Form Name |
|-------------------|---|
| AIS_PRES_ABS_0903 | Aquatic Invasives Presence/Absence Report (R 03/09) |
| SECCHI_TEMPDO | Lake Monitoring - Secchi, Temperature and D.O. |
| WATER_LEV2016 | Water Level Monitoring Data Sheet |
| WATERCRAFT_2014 | Watercraft Inspection Report (Revised 4/2014) |

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| Methods | | | | |
|------------------|--------------------|----------|------------|--------------------------|
| Method Code | Method Description | | | |
| Fieldwork Events | | | | |
| Start Date | Status | Field ID | Station ID | Station Name |
| 5/9/2016 12:45 | COMPLETE | RLWIB | 643255 | Rainbow Lake - Deep Hole |
| 5/9/2016 12:45 | COMPLETE | RLWIS | 643255 | Rainbow Lake - Deep Hole |
| 5/9/2016 13:45 | COMPLETE | TAMLB | 643339 | Tamarak Lake - Deep Hole |
| 5/9/2016 13:45 | COMPLETE | TAMLS | 643339 | Tamarak Lake - Deep Hole |
| 5/9/2016 15:00 | COMPLETE | BILB | 643467 | Birch Lake - Deep Hole |
| 5/9/2016 15:00 | COMPLETE | BILS | 643467 | Birch Lake - Deep Hole |
| 6/22/2016 9:30 | COMPLETE | TAMLB | 643339 | Tamarak Lake - Deep Hole |
| 6/22/2016 9:30 | COMPLETE | TAMLS | 643339 | Tamarak Lake - Deep Hole |
| 6/22/2016 11:15 | COMPLETE | RLWIB | 643255 | Rainbow Lake - Deep Hole |
| 6/22/2016 12:25 | COMPLETE | BILB | 643467 | Birch Lake - Deep Hole |
| 6/22/2016 12:25 | COMPLETE | BILS | 643467 | Birch Lake - Deep Hole |
| 7/20/2016 | COMPLETE | | 643339 | Tamarak Lake - Deep Hole |
| 7/27/2016 11:00 | COMPLETE | BILB | 643467 | Birch Lake - Deep Hole |
| 7/27/2016 11:00 | COMPLETE | BILS | 643467 | Birch Lake - Deep Hole |
| 7/27/2016 11:50 | COMPLETE | TAMLB | 643339 | Tamarak Lake - Deep Hole |
| 7/27/2016 11:50 | COMPLETE | TAMLS | 643339 | Tamarak Lake - Deep Hole |
| 7/27/2016 13:00 | COMPLETE | RLWIB | 643255 | Rainbow Lake - Deep Hole |
| 7/27/2016 13:00 | COMPLETE | RLWIS | 643255 | Rainbow Lake - Deep Hole |
| 8/23/2016 | COMPLETE | | 643467 | Birch Lake - Deep Hole |
| 8/23/2016 10:00 | COMPLETE | BILB | 643467 | Birch Lake - Deep Hole |
| 8/23/2016 10:00 | COMPLETE | BILS | 643467 | Birch Lake - Deep Hole |
| 8/23/2016 12:15 | COMPLETE | RLWIB | 643255 | Rainbow Lake - Deep Hole |
| 8/23/2016 12:15 | COMPLETE | RLWIS | 643255 | Rainbow Lake - Deep Hole |
| 10/11/2016 12:15 | COMPLETE | TAMLB | 643339 | Tamarak Lake - Deep Hole |
| 10/11/2016 12:15 | COMPLETE | TAMLS | 643339 | Tamarak Lake - Deep Hole |
| 10/25/2016 9:40 | COMPLETE | RLWIB | 643255 | Rainbow Lake - Deep Hole |
| 10/25/2016 9:40 | COMPLETE | RLWIS | 643255 | Rainbow Lake - Deep Hole |
| 10/25/2016 12:30 | COMPLETE | BILB | 643467 | Birch Lake - Deep Hole |
| 10/25/2016 12:30 | COMPLETE | BILS | 643467 | Birch Lake - Deep Hole |
| 2/22/2017 9:30 | COMPLETE | BILB | 643467 | Birch Lake - Deep Hole |
| 2/22/2017 9:30 | COMPLETE | BILS | 643467 | Birch Lake - Deep Hole |

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| 2/22/2017 10:45 | COMPLETE | RLWIB | 643255 | Rainbow Lake - Deep Hole |
| 2/22/2017 10:45 | COMPLETE | RLWIS | 643255 | Rainbow Lake - Deep Hole |

Documents

| Title | Description | Author | Published | Comments |
|---|---|---|------------|----------|
| NLDC reporting for AEPP47016 [Activities from March 1, 2018-August 31, 2018] | Summary of activities completed as part of AEPP47016. | Emily Heald, North Lakeland Discovery Center | 11/30/2018 | |
| Social Media Postings February 2018 to August 2018 | Screen shots of social media posts from the period of February 2018 to August 2018 as part of AEPP47016. | North Lakeland Discovery Center | 11/30/2018 | |
| Surface Water Grant Project Lab Costs | Lab costs for grant received by North Lakeland Discovery Center. | | | |
| Town of Winchester Lakes - Vilas County, Wisconsin - Comprehensive Management Plan: Phase II | Town of Winchester Lakes Comprehensive Management Plan not including reports for each separate lake. | Brenton Butterfield, Tim Hoyman, Eddie Heath, & Todd Hanke, LLC | 4/1/2018 | |
| Town of Winchester Lakes - Vilas County, Wisconsin - Comprehensive Management Plan: Phase II [Appendices] | Appendices for the Town of Winchester Lakes Comprehensive Management Plan including presentations, stakeholder survey results, water quality data, modeling data, and PI survey data. | Brenton Butterfield, Tim Hoyman, Eddie Heath, & Todd Hanke - Onterra, LLC | 4/1/2018 | |
| Town of Winchester Lakes Comprehensive Management Plan: Birch Lake | This is part of the comprehensive management plan for the Town of Winchester involving Birch Lake. | Onterra, LLC | | |
| Town of Winchester Lakes Comprehensive Management Plan: Rainbow Lake | This is part of the comprehensive management plan for the Town of Winchester involving Rainbow Lake. | Onterra, LLC | | |
| Town of Winchester Lakes Comprehensive Management Plan: Tamarack Lake | This is part of the comprehensive management plan for the Town of Winchester involving Tamarack Lake. | Onterra, LLC | | |

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

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