State of Wisconsin
Land and Water Conservation Board

PO Box 8911
Madison, WI 53708 - 8911
608 - 224 - 4633

Land and Water Conservation Board
Agenda

June 6, 2023

The Land and Water Conservation Board (LWCB) will meet on **June 6, 2023.** The board will hold its official business meeting at 9:30 am at the Green Lake County Courthouse at 571 Cty Rd A, Green Lake, WI 54941. There will not be a virtual option. The agenda for the meeting is shown below.

AGENDA ITEMS AND TENTATIVE SCHEDULE:

1 Call the Meeting to Order – **Mark Cupp, LWCB Chair**
- a. Roll Call
- b. Pledge of allegiance
- c. Open meeting notice
- d. Introductions, Acknowledgements
- e. Approval of agenda
- f. Approval of April 4, 2023 meeting minutes

2 Public appearances*

**Each speaker is limited to 5 minutes or less. Each speaker must complete a Public Appearance Request Card and submit it to a DATCP representative before the start of the meeting*

3 LWCB Advisory Committee on Research - Committee Updates
Presentation of the 2023 Soil & Water Conservation Research & Educational Needs Survey Report and Recommendation for Approval
Ron Grasshoff, LWCB and Zach Zopp, DATCP

4 Presentation of Recommendations to Conclude the 2023 LWCB Survey for the Board's Consideration & Approval
Ron Grasshoff, LWCB and Zach Zopp, DATCP

5 Recommendation for approval of 5 year LWRM Plan review for Kewaunee County - **Davina Bonness, County Conservationist, Aaron Augustian, Land and Water Conservation Committee Chair**

6 Recommendation for approval of 5 year LWRM Plan review for Green Lake County -
Todd Morris, County Conservationist, Robert Schweder, Land Conservation Committee Chair

7 Agency reports (Written Only)

8 Planning for August 2023 LWCB Meeting -
Mark Cupp, LWCB

9 Adjourn

10 Lunch

11 Depart courthouse for planned field visits to sites for a creek restoration, grade stabilization structure, and the Nitrogen Optimization Pilot Program (NOPP).

MINUTES
LAND AND WATER CONSERVATION BOARD MEETING

April 4, 2023
2811 Agriculture Drive, Madison WI and
Microsoft Teams Meeting

Item #1 Call to Order—pledge of allegiance, open meeting notice, approval of agenda, approval of February 7, 2023 LWCB meeting minutes.

Call to Order

The Land and Water Conservation Board (Board) met in person at 2811 Agriculture Drive, Madison WI 53718 and via videoconference on **April 4, 2023**. The meeting was preceded by public notice as required by Wis. Stat. § 19.84. The meeting was called to order by Chairman Mark Cupp at **9:00 am** and the pledge of allegiance was conducted.

Members and Advisors Present

Members: Mark Cupp, Bobbie Webster, Monte Osterman, Brian McGraw, Ron Grasshoff, Rebecca Clarke, Bob Thome, Tim Anderson, Andrew Potts, and Jill Schoen. A quorum was present.

Advisors:, Ryan Gerlich and Jeremy Bennet (NRCS) and Ian Krauss (FSA).

Approval of Agenda

Motion

McGraw motioned to approve the agenda, seconded by Webster, and the motion carried unanimously.

Approval of Minutes

Motion
McGraw motioned to approve the February 7, 2023 meeting minutes as presented, seconded by Osterman, and the motion carried unanimously. The approved minutes shall be posted as the official meeting record for publication on the LWCB website.

Item #2 Public Appearances

No public appearance cards were submitted.

Item #3 Recommendation for approval of 5-year Land and Water Resource Management Plan review for Burnett County

Dave Ferris, County Conservationist, and Ed Peterson, Natural Resources Committee Chair, formally requested a recommendation of approval from the Board regarding the County's 5-year LWRM plan review.

The County provided written answers to the Board's standardized questions, recent work plans and accomplishments, and other materials (available on LWCB's website: lwcb.wi.gov).

Motion

After a discussion between the Board and County representatives, Grasshoff motioned to recommend approval of Burnett County's 5-year LWRM plan review, seconded by Webster, and the motion carried unanimously.

Item #4 Statewide Phosphorus Multi-discharger Variance

Matthew Claucherty, DNR presented on the Statewide Phosphorus Multi-discharger Variance. A copy of the presentation is available on the LWCB's website: lwcb.wi.gov

Item #5 Recommendation for approval of 5-year Land and Water Resource Management Plan review for Grant County

Erik Heagle, Conservation, Sanitation and Zoning Department Administrator, and Gary Northouse, Conservation, Sanitation and Zoning Chair, formally requested a recommendation of approval from the Board regarding the County's 5-year LWRM plan review.

The County provided written answers to the Board's standardized questions, recent work plans and accomplishments, and other materials (available on LWCB's website: lwcb.wi.gov).

Motion

After a discussion between the Board and County representatives, Grasshoff motioned to recommend approval of Grant County's 5-year LWRM plan review, seconded by Schoen, and the motion carried unanimously.

Item #6 Extension of DATCP Projects from 2022 into 2023; Report on Transfers and Reallocations of 2022 Cost-share dollars

Susan Mockert, DATCP presented on the extension of DATCP Projects from 2022 to 2023 and a written report, available within the April 4, 2023 meeting packet, on transfers and reallocations of 2022 cost-share dollars.

Motion

Osterman motioned to approve the extension of DATCP Projects from 2022 to 2023 as presented, seconded by McGraw. The motion carried.

Item #7 Report of Governor's Proposed Budget for DNR and DATCP Nonpoint Programs

Jill Schoen, DNR and Tim Anderson, DATCP reported on impacts of the governor's budget to the agency's respective nonpoint programs.

Item #8 LWCB Advisory Committee on Research - Committee Updates

Ron Grasshoff and Zach Zopp, DATCP, presented to the Board an update from the LWCB's Advisory Committee on Research.

Chairman Cupp discussed the importance of "advising the UW-System" as a duty of the LWCB under s. 92.04(2), Wis. Stats. and iterated that this sentiment should be included in a memo to accompany the

Committee's final report on research and education needs. Cupp advised that the board should look to Dr. Arriaga on who to share the Committee report to in the UW-System, but that the board should look to share this to DATCP, DNR Secretaries, the Senate and Assembly Committees on Agriculture, and potentially federal partners. At future meetings the Board will need to: evaluate a forum to discuss results of the survey on research and education needs around Wisconsin; discuss how to attract future participation in its annual survey on research and education needs and solicit feedback on how to improve.

Item #8 Agency Reports

FSA- Ian Krauss submitted a written report that is available online at the Land and Water Conservation Board website within the April 4, 2023 meeting packet.

NRCS – Jeremy Bennet and Ryan Gerlich submitted a written report that is available online at the Land and Water Conservation Board website within the April 4, 2023 meeting packet

UW- CALS & UW Madison- Extension- Dr. Arriaga reported that UW Madison- Extension has hired Lindsey Hartfiel as the new Research Program Manager for UW-Discovery Farms. The UW-Extension Office of Agriculture Water Quality is almost fully staffed. For UW-CALS, Dr. Arriaga reported that UW is working to revamp the Mesonet system for weather data with a goal of having a station in each county.

WI Land+Water- Osterman reported that the NACD recommended multiple administrative changes at its conference in February. WI Land + Water Conference had 434 participants in March. Krueger is at an assembly committee on agriculture meeting related to AB 131 and FSA representation on LCCs. WI Land + Water is tracking other legislative priorities Including AB/64/SB 58 related to the well compensation program, AB 65/SB 59 related to the producer-led watershed protection grant program and AB 133/SB 134 related to farmland preservation.

DOA – Andrew Potts reported that DOA is working on the governor's budget and the Multi-discharger Variance with DNR. DOA welcomes recommendations related to outreach for the Multi-discharger variance

DATCP – Tim Anderson submitted a written report that is available online at the Land and Water Conservation Board website within the April 4, 2023 meeting packet.

DNR – Jill Schoen submitted a written report that is available online at the Land and Water Conservation Board website within the April 4, 2023 meeting packet.

Member Updates- Brian McGraw had his confirmation hearing for the term ending May 1, 2023.

Item #9 Planning for the June 2023 LWCB meeting

The Board should expect the following at the next LWCB meeting:

- 5-year Review Green Lake, Kewaunee Counties
- LWCB Advisory Committee on Research Updates
    - Planning for Board Actions on the Soil and Water Conservation Survey
    - Potential: 2023 Roundtable on UW Systems Soils and Water Conservation Research Needs

- Board Education Item

Item #10 Adjourn

Motion
Grasshoff motioned to adjourn, seconded by Webster, and the motion carried unanimously. The meeting was adjourned at 12:16 p.m.

CORRESPONDENCE/MEMORANDUM_____State of Wisconsin

DATE: **May 26, 2023**

TO: **Land and Water Conservation Board ("LWCB" or "Board") Members and Advisors**

FROM: **LWCB Advisory Committee on Research ("Committee")**

SUBJECT: **2023 Soil & Water Conservation Research and Educational Needs Survey Report ("2023 LWCB Survey Report")**

RECOMMENDED ACTION: This is an action item. The Committee recommends the Board consider adopting the 2023 LWCB Survey Report as the final report pertaining to the 2023 survey of soil and water conservation research and educational needs ("2023 LWCB Survey").

The Committee is proud to deliver the 2023 LWCB Survey Report for your consideration and approval. This report documents important milestones for both the Board and the Committee. For the Committee, this report signifies the completion of its duty to create and implement a sustainable and long-lasting process for engagement with soil and water conservation stakeholders to document soil and water conservation needs across Wisconsin. To the LWCB, this report sets the course for the Board to meet its annual duty to advise the University of Wisconsin-System on needed research and educational programs relating to soil and water conservation.

The 2023 LWCB Survey Report is based on a survey of 1,110 persons representing soil and water conservation stakeholders from seven sectors including, federal & state governments, Tribal nations, county & local governments, county conservationists, businesses and non-profits related to agriculture & conservation, and the University of Wisconsin. When the survey closed, a total of 143 respondents responded to the survey (13% response rate).

The 2023 LWCB Survey was designed to allow stakeholders the opportunity to provide both straightforward answers to a broad spectrum of soil and water conservation needs, as well as, the flexibility to provide meaningful detailed responses to specific areas of attention in 2023. The recommendations contained within the 2023 LWCB Survey Report are reflective of respondents as a whole. To reduce the potential for survey bias, responses from the seven respondent sectors were weighted equally so not to favor any one particular sector who may have a disproportional volume of responses.

With the submission of the 2023 LWCB Survey Report, the Committee looks to the LWCB to disseminate the report to the University of Wisconsin in keeping with the Board's duty under Wis. Stat. § 92.04(2)(g).

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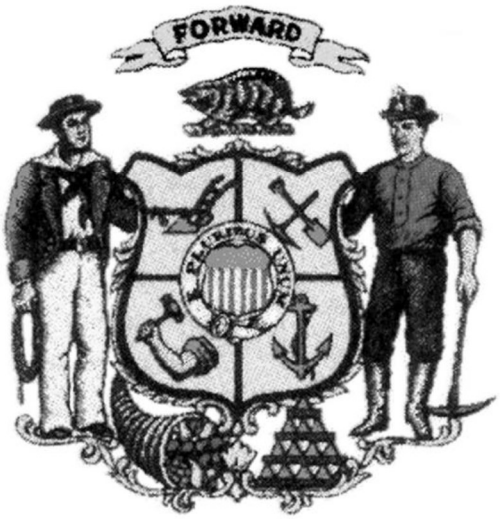
LAND & WATER CONSERVATION
BOARD



2023
Soil & Water Conservation Research and Educational Needs Survey Report

Prepared by

LWCB Advisory Committee on Research

&

Zach Zopp
Bureau of Land and Water Resources
Wisconsin Department of Agriculture, Trade and Consumer Protection

Published on MONTH DD, YYYY

Wisconsin Department of Agriculture, Trade and Consumer Protection
P.O. Box 8911
Madison, WI 53708-8911

PREFACE

LAND ACKNOWLEDGEMENT

The Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) has the privilege and responsibility to acknowledge the Indigenous people who have called this land home for generations. This acknowledgement demonstrates our strong commitment to collaborate and partner with the sovereign Tribal nations located in Wisconsin. There are now 12 Tribal nations that call this land home, 11 of which are federally recognized. No matter where you are in the state, you are on the ancestral land of a Tribal nation. The Department reminds each of us to take the opportunity to learn about and appreciate the history of the land we are on and the great historical, present, and future contributions of Indigenous people.

- DATCP. *Land Acknowledgment*. https://datcp.wi.gov/Pages/About_Us/LandAcknowledgement.aspx. Accessed 5 May, 2023

TO THE READER

The Land and Water Conservation Board (LWCB or Board) connects local and state governments on conservation and farmland preservation issues. The Board has many duties under Wis. Stat. § 92.04(4) including, reviewing county land and water resource management plans, reviewing the allocation of state conservation funds, advising the University of Wisconsin System, etc. LWCB is comprised of 11 members who represent the Governor's Office, state agencies, county land conservation committees, urban communities, agricultural producers, river management, and natural resource interests. Chairperson Mark Cupp – Executive Director of the Lower Wisconsin State Riverway Board, currently presides over LWCB.

The Board expresses its gratitude to the soil and water conservation stakeholders who have invested their time and resources to participate in the *2023 Soil & Water Conservation Research and Educational Needs Survey*. Our vision is for this survey to provide a new forum to discuss emerging soil and water conservation issues in Wisconsin. We look forward to continuing our partnerships with you and remain committed to bringing more voices into the conversation.

EXECUTIVE SUMMARY

PURPOSE

The Wisconsin Land and Water Conservation Board supports healthy landscapes with stable soils, clean waters, and productive agriculture. LWCB believes in conservation research and promoting sound conservation practices across Wisconsin to achieve and sustain these healthy landscapes.

Achieving healthy landscapes requires input and support from Wisconsin communities and businesses, local/state/federal governments, and Tribal nations. The Board actively engages with these stakeholders to understand their soil & water conservation needs, the factors that influence their needs including, land use practices, economy, populations, culture etc., and the broader needs across the state. These engagements provide LWCB with a continuous source of present-day information. The Board relies on this valuable information when it acts, each year, to advise the University of Wisconsin System on soil & water conservation research and educational program needs.

METHODOLOGY

Within LWCB, the Advisory Committee on Research (Committee) is charged with leading soil & water conservation stakeholder engagement. In 2023, the Committee launched an annual survey to engage with conservation stakeholders. The Committee prioritized inclusivity when it assembled the 2023 conservation stakeholder engagement list, which included federal & state government, Tribal nations, county & local governments, county conservationists, businesses and non-profits related to agriculture & conservation, and the University of Wisconsin.

The 2023 survey was conducted on the SurveyMonkey virtual platform. An estimated 1,110 persons received an invitation by email or mail to participate in the survey. The survey asked respondents a range of questions to assess their priorities for soil research, water research, and outreach & educational needs related to soil and water. When the survey closed, 143 respondents (13% response rate) completed the survey. Stakeholder responses and feedback will be used to refine future surveys. Appendix – Figure 1 provides a breakdown of the stakeholder sectors represented by the respondents.

FINDINGS

The Committee, in collaboration with DATCP staff, have analyzed responses to the 2023 survey and offer the following findings. The complete response dataset can be provided upon request.

1) Stakeholders overwhelmingly reported – by a 2/3 majority – that soil & water outreach and education is their top conservation priority of need. This finding is consistent across every sector surveyed. Appendix – Figure 2 shows the top priorities for each sector.

   Within the realm of soil & water outreach and education, stakeholders are mainly concerned for the adoption of existing soil and water conservation practices. Specifically, respondents coalesced around a need for additional outreach and education to connect the economics of soil health practices & best management practices to leverage their adoption with producers at larger scales. Respondents also reported that producers would benefit from additional outreach

at the Tribal, state, and county level; however stakeholders reported they lacked the resources (funding and staff) to increase their outreach efforts. Appendix – Figure 3 shows the other areas of concern respondents identified within the domain of soil & water outreach and education.

2) Stakeholders next conservation priority of need is water research, specifically ground water quality. The level of interest here is highest among federal, state, and county governments as well as non-profits. These respondents generally had similar concerns for chemical, biological and nutrient contamination in groundwater supplies. Research and monitoring into the presence of perfluoroalkyl and polyfluoroalkyl substances (PFAS) and nitrogen in groundwater were the stakeholder's main areas of emphasis. Stakeholders are also concerned for surface water quality and the interactions of surface and ground water. Appendix – Figure 4 shows the other areas of concern respondents identified within the realm of water research.

3) Soil research was the lowest priority among respondents. Nevertheless, the private sector, tribal nations, and federal, state, and county governments all reported interest in soil research. Soil health – primarily soil health management systems and soil health assessments – received the highest level of support among these respondents. In this domain, respondents requested research that standardized soil health metrics/attributes/conditions that provide for healthy soils, good nutrient management, and carbon sequestration. Further research and development into successful agricultural management systems that prevent erosion, promote infiltration and increase soil health was also of interest to these stakeholders. Appendix – Figure 5 shows the other areas of concern respondents identified with respect to soil research.

RECOMMENDATIONS

In the pursuit of promoting sound conservation practices that reinforce healthy landscapes in Wisconsin, LWCB offers the following recommendations to its stakeholders and the University of Wisconsin System. Stakeholders with the means to support these recommendations should consider acting in their capacity to prioritize, incentivize, research and/or fund work within these areas. These recommendations are ranked by their overall importance to soil & water conservation stakeholders.

1) Further soil & water conservation efforts in Wisconsin by developing, supporting and/or researching the effective of outreach and education efforts that focus on increasing implementation, adoption, and the effectiveness of Wisconsin's existing and emerging soil and water conservation practices.

2) Lead, collaborate on and/or support groundwater research focused on the presence of chemical, biological, and nutrient contamination – namely PFAS and nitrogen – in Wisconsin's groundwater supplies.

3) Lead, collaborate on and/or support research and the development of soil health management systems and soil health assessments focused on standardizing soil health metrics/attributes/conditions that achieve healthy soils, good nutrient management, and carbon sequestration. Likewise, support research and development into agricultural management systems with the potential to prevent erosion, promote infiltration, and increase soil health.

APPENDIX OF FIGURES

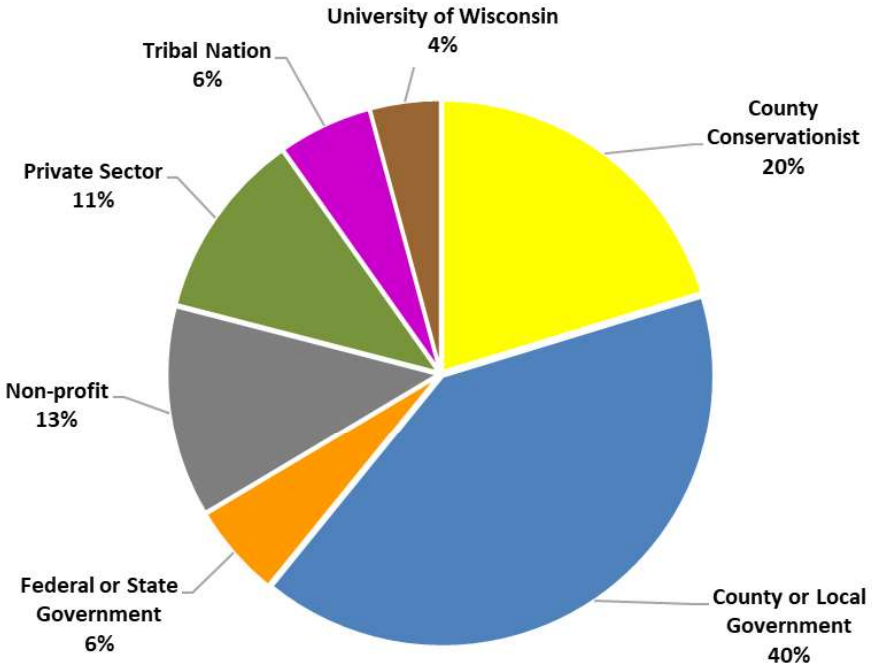


Figure 1: Distribution of soil and water conservation stakeholder employment sectors represented in the 143 responses to the 2023 Soil & Water Conservation Research and Educational Needs Survey.

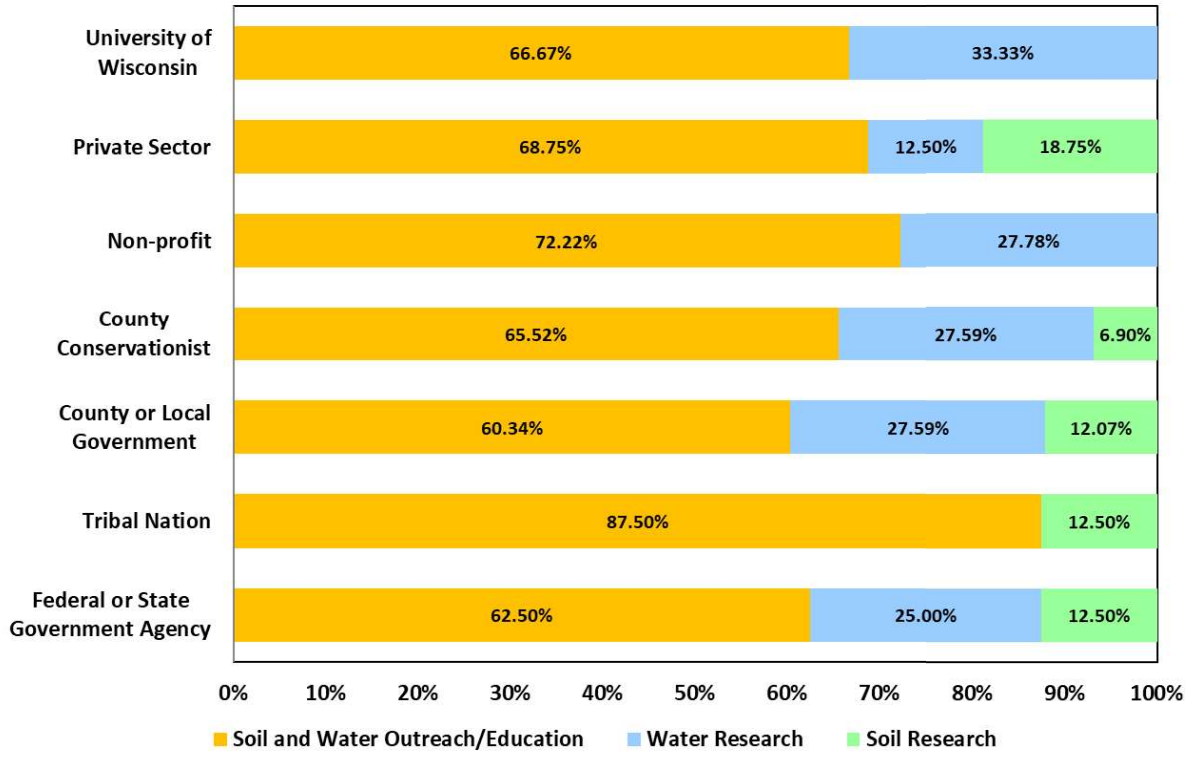


Figure 2: Distribution of respondents reported highest priority for soil & water conservation research or outreach and education, separated by stakeholder sector.

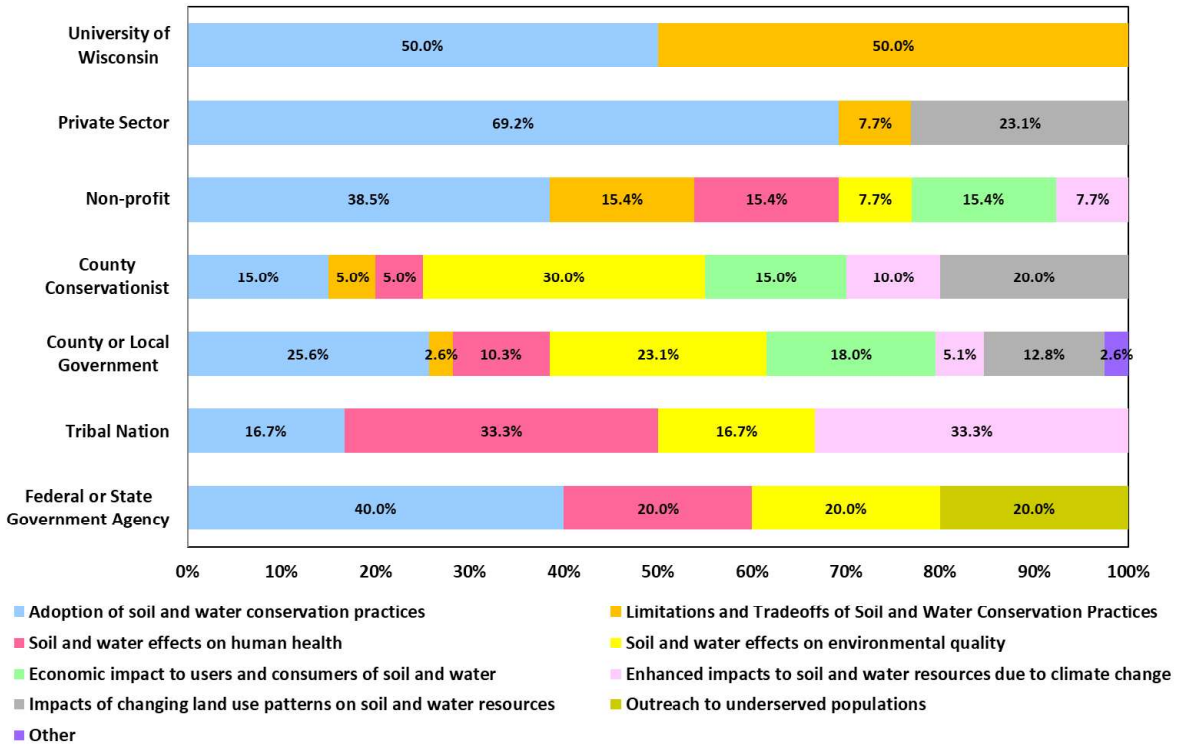


Figure 3: Distribution of respondents concerns for outreach and educational needs related to soil & water conservation, separated by stakeholder sector.

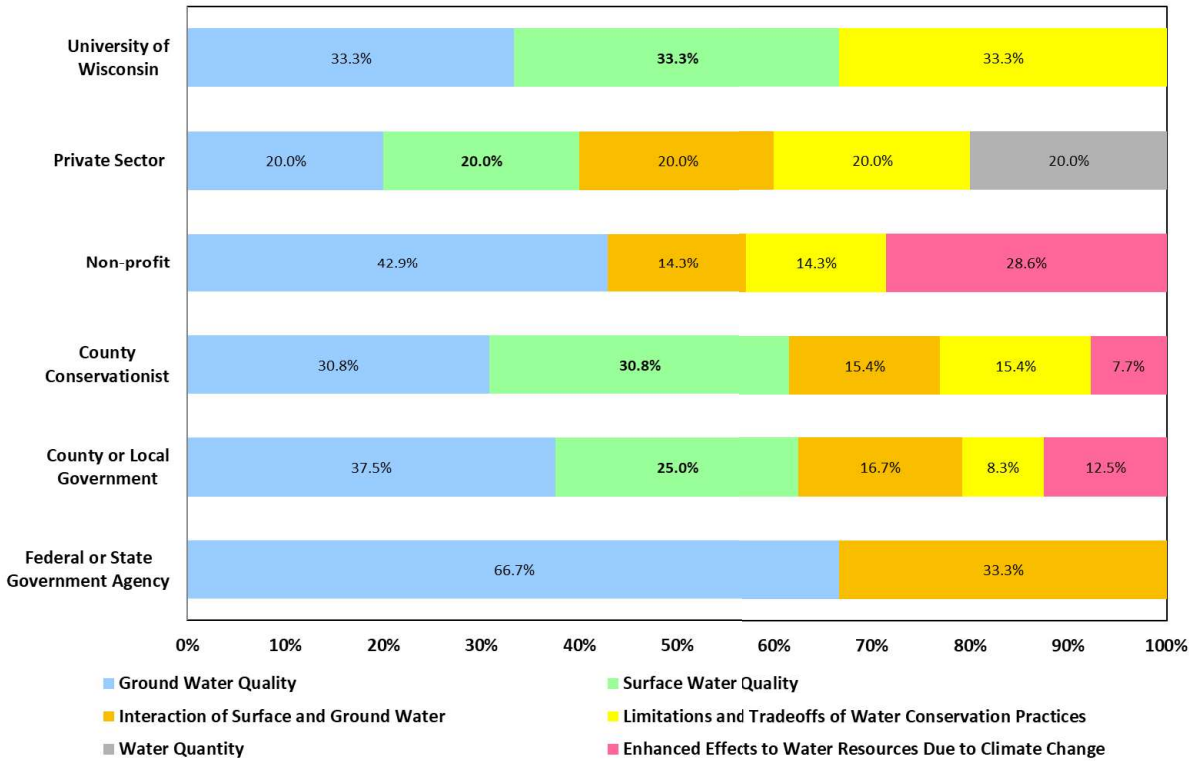


Figure 4: Distribution of respondents concerns for water research related to soil & water conservation, separated by stakeholder sector.

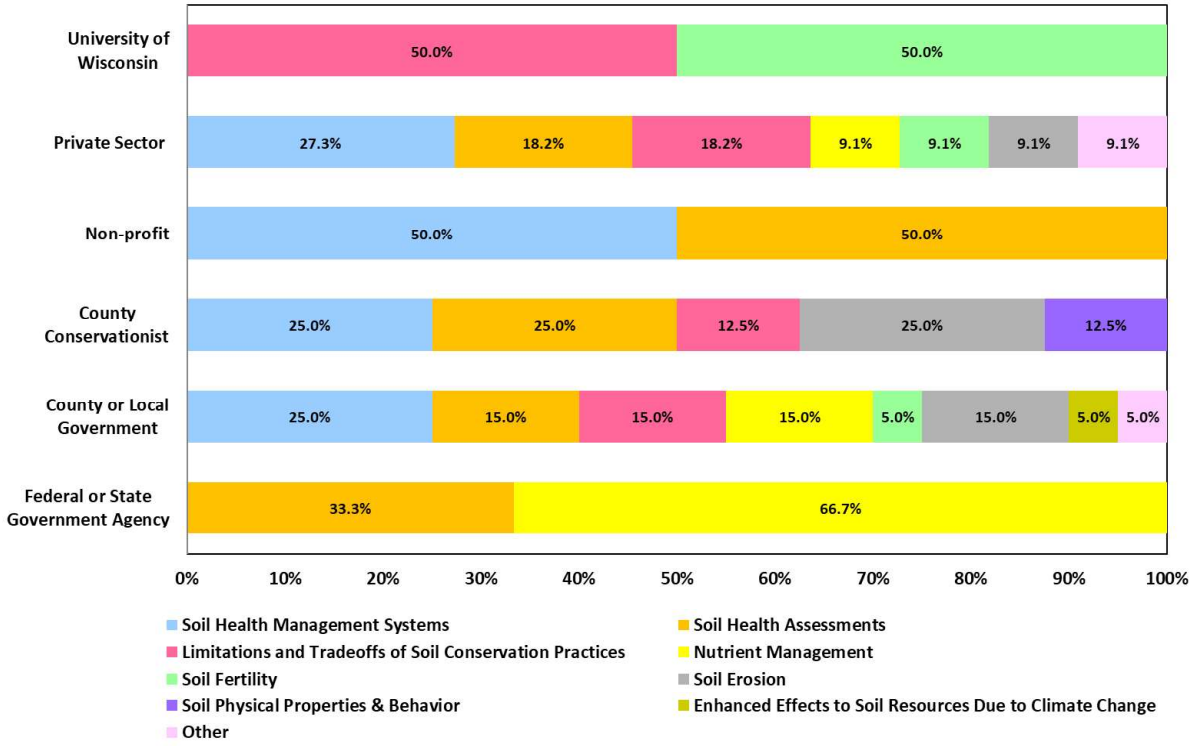


Figure 5: Distribution of respondents concerns for soil research related to soil & water conservation, separated by stakeholder sector.

CORRESPONDENCE/MEMORANDUM_____State of Wisconsin

DATE: **May 26, 2023**

TO: **Land and Water Conservation Board ("LWCB" or "Board") Members and Advisors**

FROM: **LWCB Advisory Committee on Research ("Committee")**

SUBJECT: **Proceedings from the May 2, 2023 Committee Meeting**

RECOMMENDED ACTION: Should the Board approve the 2023 LWCB Survey Report, the Committee offers three additional recommended actions to assist the Board with its duty to annually advise the University of Wisconsin-System on needed research and educational programs relating to soil and water conservation.

1) The Committee recommends the Board consider distributing the 2023 LWCB Survey Report to the University of Wisconsin System, Governor, DATCP Secretary, DNR Secretary, Chairs and members of Senate/Assembly committees on Natural Resources and on Agriculture, and stakeholders contacted through the 2023 LWCB Survey.

2) The Committee recommends the Board consider selecting a person to prepare a single cover letter to accompany the distribution of the final 2023 LWCB Survey Report.

3) The Committee recommends the Board consider creating a work group – comprised of not more than three members – to plan a special meeting of the LWCB for the purpose of discussing the 2023 LWCB Survey Report with stakeholders. The Committee recommends the special meeting be held at DATCP in hybrid in-person/virtual format, with event details to be determined by the work group.

On May 2, 2023 the Committee met to finalize its work on the 2023 survey of soil and water conservation research and educational needs ("2023 LWCB Survey"). As documented in the accompanying memo entitled, "*2023 Soil & Water Conservation Research and Educational Needs Survey Report ("2023 LWCB Survey Report")*", the Committee achieved its main goal of preparing a list of soil and water conservation research and outreach needs for the Board to distribute to the University of Wisconsin System in accordance with Wis. Stat. § 92.04(2)(g).

The Committee went on to discuss actions the Board may wish to consider to increase the distribution and impact of the 2023 LWCB Survey Report. The Committee believes expanding the distribution of the 2023 LWCB Survey Report to the entities beyond the University of Wisconsin System, as seen in action item #1, will amplify opportunities for the Boards recommendations to be utilized by a multitude of soil & water conservation stakeholders in Wisconsin. At the same time, attaching a personalized cover letter, directly from the LWCB, to the report provides the Board with an opportunity to make a personal connection to recipients.

The Committee is also aware of its duty to the LWCB to provide a sustainable and long-lasting process for engagement with soil and water conservation stakeholders. For this reason, the Committee believes it's critical to hold a public event to engage with the general public. A public event would demonstrate the Board's commitment to engagement, offer the opportunity to learn

from stakeholders, and provide a platform to show gratitude to stakeholders. By creating this space for interaction, the Committee believes stakeholders will be more willing to continue to participate in future surveys and hopefully even grow participation. Planning such an event will take a level of flexibility the Committee cannot offer as a governmental body. Therefore, the Committee recommends the Board consider creating a small working group – of no more than three members – to plan the event.

CORRESPONDENCE/MEMORANDUM **State of Wisconsin**

DATE: **May 24, 2023**

TO: **Land and Water Conservation Board Members and Advisors**

FROM: **Lisa K. Trumble, DATCP** *Lisa K. Trumble*
Resource Management Section,
Bureau of Land and Water Resources

SUBJECT: **Five Year Review of the *Kewaunee County Land and Water Resource Management Plan***

Recommended Action: This is an action item. The LWCB should determine whether the county has met the LWCB's criteria for a five-year review of a LWRM plan approved for ten years. If the LWCB makes a formal determination that the county has failed to meet these criteria, DATCP will automatically modify its order to terminate approval of the county's plan effective December of this year.

Summary: The Kewaunee County land and water resource management plan has been approved through December 31, 2029, contingent on a five-year review conducted prior to December 31, 2024. In an effort to better manage scheduling in 2024 and at the request of DATCP, Kewaunee County has agreed to present in 2023. In advance of the five-year review, Kewaunee County has completed a DATCP approved form designed to implement the LWCB's reference document dated October 27, 2021, and the criteria for conducting a five-year review. The county has provided written answers to four questions regarding past and future implementation, has provided the required work planning documents, and has appropriately involved the Land & Water Conservation Committee.

Materials Provided:
- Completed Five Year Review Form
- 2022 Annual Workplan with Accomplishments
- 2023 Annual Workplan
- Five Year Accomplishments Report

Presenter: Davina Bonness, County Conservationist, Kewaunee County LCD
Aaron Augustian, Land & Water Conservation Committee Chair

5-year Land and Water Resource Management Plan (LWRMP) Review
Kewaunee County - June 2023
Davina Bonness (County Conservationist)

The 2020-2029 Kewaunee County LWRMP set overarching 10 Year goals through a planning process and advisory committee who voted on the top three resource concerns. They were, in order, (1) Groundwater Quality, (2) Surface Water Quality, and (3) Soil Quality & Health. Within each resource concern, the advisory committee voted on the top 4 goals and objectives. These resource concerns and goals provide the direction of the LWRMP and our office's focus and priorities.

1. **Groundwater Quality**: (1) Decrease the Percentage of Unsafe "Tested" Wells, (2) Implement New NR151 Silurian Dolomite Standards & Prohibitions; (3) Map Depth of Bedrock & Water Table Elevations and (4) Inspect all Wells for Construction Conditions.
2. **Surface Water Quality**: (1) Increase Harvestable Buffer Acres, (2) Prioritize fields in Highly Sensitive Fields, (3) No Waterways on the Impaired Water list for any Contaminant and (4) Develop and Implement TMDL Recommendations.
3. **Soil Quality & Health**: (1) Increase No-Till acres while Decreasing Tillage Acres on Fields not Meet T, (2) Increased Covered Acres by 25%, (3) Increase Awareness of Manure Leachate Irrigation; and (4) Increase Cover Crops on Fields Not Meeting T.

Kewaunee County Land & Water Conservation Department (LWCD) achieved a number of notable accomplishments by implementing our current programs and ordinances to achieve the goals and objectives under the top three resource concerns. Since the LWRMP was approved in April 2019, and Kewaunee County opted to do our 5 year review a year early to help DATCP, the accomplishments were broken down in the attached spreadsheet from 2019-2022. However, I will discuss the top 5 areas of accomplishments below in no specific order.

1. **NR151/FPP**: the planning process outlined in the LWRMP (pages 55-60) provides the foundation for implementation of the four-year walkover rotation for those participating in the Farmland Preservation Program (FPP). Notable accomplishments include 506 walkovers (406 in full compliance); 2700 karst features GPS/mapped into ArcGIS (also provided to DATCP); and 852 acres probed to identify less than 2 feet to bedrock in the last 4 years. One adjustment was our office implemented the Silurian standards through our local County Ordinance. This allowed our staff to immediately start identifying the 0-2' to bedrock layer by probing fields, finding cost share dollars for compliance, and working one-on-one with impacted landowners.

2. **Cropland & Livestock**: the design, construction and implementation of practices is determined by landowners need and by issues/violations found on NR151/FPP walkovers. Planning adjustments in this area are always determined by money, cost sharing, economy, building materials and contractors. Designs are completed by the LWCD technician, but not always installed in the calendar year due to those reasons. A recent change is the number of farms selling their animals and going into cash cropping, which then leaves them with an unused manure storage. In the last 4 years, our office has designed and abandoned 12 storages.

3. **NMP/NMFE**: The percentage of acres under Nutrient Management plans (NMP) is at an all-time high at 87% and growing in 2023. Part of this success has been the number of operators/landowners writing their own plans through our office's Nutrient Management Farmer Education (NMFE) grants. The number of participants increased from 15 (2019) to 23 (2022) and in 2023 is almost 30 farms. This program has been a great opportunity for the farms to learn how making small changes in their

farming practices can help their topsoil and soil health. In addition, operators learn how manure is a nutrient and not just a waste. This class has saved farms financially by buying less fertilizer and growing their soil health. One adjustment, new for Kewaunee County, operations who spread liquid manure voluntarily provide the LWCD with their actual hauling records quarterly. These are entered into our expansive ArcGIS database to the exact field where it was spread. This additional step allows our office to cross reference plans while reviewing for compliance. In 2022, over 87% of the operations turned in their hauling records. Kewaunee County continues to conduct hauling audits due to spills, complaints, or randomly while doing NR151/FPP walkovers. Another adjustment made to the ArcGIS database is the addition of tillage. Our office already had mapped every field (drawn into GIS) by operator, soil test p, soil test year, acres, critical and predominant soils, soil loss T, PI, all crops (some fields going back to 2013), manure agreements (CAFO w/cash croppers/small farms). New in 2023, our office added tillage and cover crops.

4. **Watershed Planning**: Kewanee County LWCD Ahnapee River 9-key element plan was approved in 2020 and our Department started working with landowners, specifically with those needing NMPs, in that watershed. After that plan's approval, our office started writing the Kewaunee River 9-key element plan, which is about 60% completed. These plans will be important for the implementation of the Northeast Lakeshore TMDL when it is approved later this year.

5. **Groundwater Testing:** A huge accomplishment in the past 4 years was securing 2021 & 2022 Coastal Management Grants (CMG) and partnering with Peninsula Pride Farms to offer free well testing to determine if the implementation of the Silurian standards were having an impact on groundwater quality. Since Kewaunee County had a large database of wells tested pre-Silurian (Borchardt et al, 2021), we were able to break down the wells in the same depth of bedrock categories as Borchardt et al, 2021 and do a comparative analysis. With both grants, LWCD tested 600 wells a year (300 in July and 300 in Oct/Nov). The results proved in the 0-5' to bedrock, there was significant reductions in coliform bacteria and E. coli. Adjustments that needed to be made were targeting staff efforts in higher depths of bedrock (5-10' & >20') where nitrates were significantly increasing in some areas. LWCD secured CMG funding in 2023 to focus testing on higher nitrates areas in the County. Our Department's overarching question is by implementing the Silurian Standards (focused on bacteria/pathogens) that reduced the number of acres available for manure spreading and limited manure amounts on fields; did this have impacts on other parts of the County with higher depths to bedrock?

Question 2: Areas where LWCD were unable to make desired progress & work adjustments to refocus efforts.

1. **Invasive Species:** In 2020/2021, our office lost the staff member who worked with invasive species; therefore, to readjust, LWCD started to partner on grants with Glacierland RC&D. Glacierland now hires support staff to work in Kewaunee (under our grants) on identifying, control efforts and education/outreach on invasive species.

2. **Non-metallic mining**: Our office was unable to conduct as many non-metallic mining onsite inspections. To readjust, our office is trying to get a smaller number a year and using air-photos and other documentation to determine reclamation activities.

3. **Surface water**: Our Department is waiting on the TMDL to implement surface water priorities, with the use of the 9-key element plans.

Question 3: How the county's work plans implement its priority farm strategy; effectiveness of county actions implementing ag performance standards & conservation practices on the farm.

Our Department's implementation strategy as laid out in the LWRMP is tailored around implementing the performance standards every four years on walkovers and identifying conservation practices that will keep the landowners/operators in compliance. Our Department will construct and design practices as they are identified and try to find cost sharing (if applicable). The foundation of our annual workplans provides the areas each year that we target. Other programs, including well testing, also highlight new priority areas, i.e. nitrates, to target with new practices like cover crops, split manure applications, ect. Our NR151 program has been highly effective as more and more landowners are getting into FPP. Our groundwater contamination percentages have been lower, especially in the Silurian areas that we targeted with the new performance standards also.

Outreach: Every year our LWCD office meets in the spring and fall with farmers, CCAs, and manure haulers to answer questions, provide feedback on the past hauling season, update everyone on new or current standards including setbacks, and open all lines of communication. Our office learns the needs of haulers and farmers in the areas, and operators can keep us informed on where and when they are hauling and if they need any assistance.

Inventories: See first page under 1 (NR151) and 3 (NMP/NMFE) and spreadsheet attached. In addition, our inventory of wells tested through our various programs date back to 2004. All walkovers are documented by parcel and landowner in an excel spreadsheet; which also documents all their compliance standards with nutrient management and NR151 as well as the year their walkovers were completed.

Additional Funds: Our office continue to seek additional NMFE as our program continues to grow as small farmers are writing their own plans. Our office has received Coastal Management grants for well testing and outreach and education to landowners who have private wells.

Question 4: Changes in work-planning for the upcoming 5 years.

Our LWCD anticipates two major work-plan changes for the next 5 years. The first is to implement the Northeast Lakeshore TMDL, which should be approved in the summer 2023, and the second is focusing on nitrate contamination. Kewaunee County has not had an approved TMDL to date, but our office is working on the 9-key element plans to support the implementation of this plan. To date, our office has not done much work with surface water and phosphorus. The second major change is the shift from focusing on the Silurian Bedrock (because those areas our county has implemented the new NR151 rules and can now monitor the groundwater with routine testing) to areas now experiencing growing nitrate contamination, including the sand/gravel/clay geology areas.

Land Conservation Committee Notification:

The LCC was provided a completed copy of these questions (including attachments) on 5/12/2023.

Signature of Authorized Representative: Davina Bonness 5/12/2023

Davina Bonness, 5/12/2023 (County Conservationist)

Kewaunee County 2022 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

Table 1: Planned activities and performance measures by category

CATEGORY (goal and objective from LWRM plan can be added in each category)	PLANNED ACTIVITIES WITH BENCHMARKS If applicable identify focus areas, e.g. HUC 12 watershed code	PERFORMANCE MEASUREMENTS
• *Cropland*		
Cropland # 1. **Farm inspections to implement state performance standards and prohibitions including new Silurian Dolomite; implement Chapter 39 (local NR151)** Goal #1 Objectives 1-7: Page 114 Goals/Objectives #1.1 & #1.2 – Pages 118-119 & Pages 126-130 NRCS Plan DFC & Action Items – Page 95	**Cropland # 1.** • Conduct 100 farm inspections. Document & Map NR 151 & FPP compliance status in 2021 focused on Kewaunee River (0403010203) & East Twin (0403010201) HUC 12s • Inspect & follow up on animal waste manure complaints • Assist landowners in complying with NR151 • Document compliance and non-compliance issues with Chapter 39	**Cropland #1.** • # inspections performed: 185 • # acres walked over: 21,333 • # of compliance certificates issued: 151 • # of certificate numbers issued total: 683 • # of compliance schedules or letters issued: 33 • # Notice of Non-Compliance issued: 1 • # DNR / EPA assisted walkovers: 0 • # new Karst features documented: 674 • # acres probed to verify depth of bedrock: 120
Cropland # 2. **Cropland conservation practices <u>installed</u> to implement state performance standards and prohibitions** Goals/Objectives 2.1 – Page 121 Goals/Objectives 2.3 – Page 121 Goals/Objectives 3.1 & 3.3 – Page 124 And Pages 128-129	**Cropland # 2.** • 6-8 waterways surveyed, designed & installed (Kewaunee River) • 4 (New) nutrient management plans cost-shared (County) goal of 200 acres new a year • Increase Cover Crops on fields not meeting T (try to get covered acres increased by 25%) Provide technical assistance including design preparation & construction oversight for conservation practices to be installed in 2023	**Cropland # 2.** • # of staff hours expended for design/installation (technician hours) • Type and units of practice(s) installed (see below) • Amount of cost-share dollars spent • # tons of sediment reduced (STEPL, SNAP Plus) (did not calculate) • # lbs of P reduced (STEPL, SNAP Plus) (did not calculate) • # acres of cropland in compliance with a performance standard (e.g. soil erosion, tillage setback): 112,480 (those under NMP) • # "New" Acres under NM: 583 • Acres installed of GWW: 1.5 • Acres of covered land (cover crops): working on figuring this out w/NMPs in 2023
Cropland # 3. **Nutrient Management Planning & Implementation / Compliance with NR151 & FPP** Goals/Objectives: #1 (page 118), #3 (page 123), & #3.3 (page 124) NRCS Plan DFC & Action Items – page 93	**Cropland # 3.** • Accept, review, approve, and Map into ArcGIS, 270+ Nutrient Management plans • Verify 25% of plans in the field to ensure implementation compliance • Cross reference NMPs to avoid the same spreadable lands being included in more than one plan. • Conduct 20 hauling audits (10-spring/summer & 10 fall/winter) • Conduct Farmer Led Nutrient Management Planning Class for 2022	**Cropland # 3.** • # of Hauling Audits: 16 • # of "total acres" under 590 plans: 112,480 • % of acres under 590 plans: 87% • # "new acres" under 590 plans: 583 • # plans reviewed, approved, and mapped: 272

Kewaunee County 2022 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

Cropland #4. Conservation Planning Goal: 100% acres (currently at 80%) Goals/Objectives #3, #3.1 & #3.3 – Pages 123-125 NRCS Plan DFC & Action Items – page 94	• Secure funding for 2023 Farmer Led NMP Class • Hauling records received **Cropland # 4.** • Enter/review/update 100 Conservation Plans (632 plans in office) into Toolkit with current Conservation Crop Rotations • Write 10 New Conservation Plans for New FPP participants • Increase no-till acres and decrease tillage on fields not meeting T (annual goal of 25% increase)	• # actual hauling records received: 87% (104 operators) • # Farmers attending & writing own NMP: 23 • # plans verified in the field: 40% **Cropland # 4.** • # of Conservation Plans entered/reviewed/updated: 50 • # new Conservation Plans approved: 5 • # acres updated with current Conservation Crop Rotations: 2023 goal • #acres – newly under no-till or reduced tillage • #acres now meeting T *(haven't fully calculated)*

- *Livestock*

Livestock #1. **Livestock facility conservation practices <u>installed</u> to implement state performance standards and prohibitions** Goals/Objectives are same as NR151 (Priority 1) and Pages 128-129	**Livestock #1.** Provide technical assistance including design preparation & construction oversight for installed livestock practices & practices to be installed in the following year (NR151 compliance) • 1 new solid manure stacking pads • 3 leachate collection system with VTA Provide technical assistance including design preparation & construction oversight for livestock practices to be installed in 2023	**Livestock #1.** • Type and units of practice(s) installed –6 manure storage abandonments designed of which 3 were installed; 1 leachate collection installed. • Amount of cost-share dollars spent • # lbs of sediment reduced (STEPL, SNAP) (did not calculate) • # lbs of P reduced (STEPL, SNAP) (did not calculate) • # of livestock facilities in compliance with a performance standard: 159 sites w/ 20 or more animals

- *Water quality*

Water Quality #1. **Conservation practices <u>installed</u> to implement LWRM priorities (CREP) (Water Quality Protection & WQMA's)** Goal/Objectives 2, 2.1, 2.3: Page 121 and 139	**Water Quality #1.** • Enroll ~ 5 acres into new CREP contracts focused on Kewaunee River (0403010203), Ahnapee River (0403010202) & East Twin (0403010201) HUC 10 Watersheds • 1 site need to be walked over for expiring contracts / or for eligibility	**Water Quality #1.** • Acres of CREP installed (CREP DATCP spreadsheet): 2.3 acres • Amount of cost-share dollars spent • # lbs of sediment reduced (CREP DATCP spreadsheet) • # lbs of P reduced (CREP DATCP spreadsheet) • # lbs of N reduced (CREP DATCP spreadsheet) • #sites walked for expiring contracts / or eligibility

Kewaunee County 2022 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

Water Quality #2. **Groundwater Testing Research & Outreach & Education & Well Abandonment** Goal/Objective #1 – Page 118 Goal/Objective #1.3 – Page 119 And page 135 NRCS Plan DFC & Action Items – page 97	**Water Quality #2.** • Promote and provide technical and cost-sharing assistance for properly abandoning 5 unused rural wells (throughout Kewaunee County) • Continue to provide support for Groundwater testing and monitoring throughout Kewaunee County • Continue to provide support for Groundwater testing and monitoring throughout Kewaunee County • Voluntary Well Testing Program (increase participation, especially with 1st time testers) • Increase awareness of testing wells annually • Partner with Public Health Department to provide well testing opportunities • Secure funding for well testing & carry out grant • Contact state and federal agencies to provide matching funds for well-testing	**Water Quality #2.** • # wells properly abandoned: 5 • # landowners who received letters to properly abandon wells: 0 • # wells tested: 600 • # Landowners assisted with well testing / groundwater issues: 700 • % tested well unsafe (bacteria and/or nitrates): 27.4 in October 2022 (however, these were targeted wells in Silurian so its skewed. • Grants received: Coastal Management Grants

- *Forestry – None*
- *Invasive*

Invasive species #1 Page 64, 141	**Invasive species #1** • Treatment of Invasive Species (acres) • Continue to Inventory current species in the County • Continue Clean Boats Inspections on Lakes/Kewaunee • Partnering with Glacierland RC&D on grants	**Invasive species #1** • # of surveys conducted / completed – all w/Glacierland • # of invasive species documented: all w/Glacierland • Grants sought / received & partnerships developed (Glacierland & DNR grants) • Acres being actively treated: 715 • #Site Visits: 25

- *Wildlife*

Wildlife #1. Increase wildlife diversity	**Wildlife #1.** • Continue to contract with USDA for Wildlife Damage Program	**Wildlife #1.** • Acres of County planted to native grasses/wildlife: 0 through our office

Kewaunee County 2022 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

- *Urban - None*
- *Watershed*

Watershed Project #1. **Northeast WI TMDL** Goal/Objective #2.4 –Page 122 And Pages 131-132 NRCS Plan DFC/Action Items – Page 96	**Watershed Project #1.** • Assist DNR in plan development • Assist in implementing TMDL on Ahnapee, Stony, Kewaunee & Twin Rivers in 2022	**Watershed Project 1** • Document progress on TMDL: DNR should be finishing this summer • Waterways removed from 303d EPA listing: none
Watershed Project #2 **9 Key Element Plans** Goal/Objective #2.4 –Page 122 Pages 98-109 and pages 132-133 NRCS Plan DFC & Action Items – Page 96	**Watershed Project #2** Implement 9-key element plan (Ahnapee River) Annual goals • 50 acres cover crops + NMP • 100 acres residual + NMP • 20 acres of grass filters + NMP • 75% Implementation of NMP • 0.2 acres' feedlots w/ waste management system • 100 feet GWW Continue to write & seek approval for the Kewaunee River Watershed 9 key element plan	**Watershed Project #2** • Final Approval on Ahnapee River 9 Key Element Plan (yes approved by EPA) • Document progress of annual goals – 91.8% NM in Ahnapee River Watershed • Document TSS, P, N decreases • Plans completed and/or status of plans: 60% completion of Kewaunee River 9 Key Element Plan
Watershed Project #3 **NRCS Watershed Project** in Kewaunee River (0403010203) & Ahnapee River (0403010202) HUC 10-Watersheds DFC/Action Items: 93-97 & 133-134	**Watershed Project #3** • Implement and secure funding of conservation priorities to meet the desired future conditions and action items	**Watershed Project #3 – all done under the 9 key plans now** • Amount of Funding Received & # Practices installed • # of meetings attended/presentations given • # of partnership development activities accomplished • Progress on implementing annual goals

Kewaunee County 2022 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

- *Other*

County Priority #1. **Locally administer the Kewaunee County Non-Metallic Mining Reclamation Ordinance** Page 137	**County Priority #1** • Accept, review and approve new, amended and/or renewed permit applications (27), and reclamation plans. • Review mines if any are fully reclaimed. • Annually visit all 27 pits	**County Priority #1** • # NMM permits reviewed, approved: 26 • # NMM permits reviewed, not-approved: 0 • # pits or acres fully reclaimed (on-site visit required): 0 • # onsite compliance checks performed: 2
County Priority #2. **Locally administer the Kewaunee County Public Health & Groundwater Protection** Ordinance (Page 137)	**County Priority #2.** • Focus area land having less than 20 feet to bedrock	**County Priority #2** • # stacking / spreading variances for 2021: 0 • # of Notice of Violations Issued: 0
County Priority #3. **Locally administer the Agricultural Waste & Process Wastewater Irrigation Ordinance** Goal/Objective #3.2 – pages 124 & 138	**County Priority #3.** • Accept, review and approve new, amended and/or renewed permit applications for Agricultural Irrigation Ordinance • Increase awareness of manure leachate / manure irrigation (low-pressure, drop nozzle, 18" off ground)	**County Priority #3** • # permits reviewed, approved: 0 • # permits reviewed, not-approved: 0 • # on-site visits: 0
County Priority #4. **Permits <u>issued</u> or <u>obtained</u> in connection with practices installed** Page: 130	**County Priority #4.** Issue 6 manure storage permits; ▪ Assist with 2 DNR permits ▪ Accept, review and approve 4 permit applications and designs for manure storages and transfer systems	**County Priority #4** • # of staff hours • # permits issued: 17 • # permits/plans reviewed, approved: 17 • # permits/plans reviewed, not-approved: 0
County Priority #5 Locally administer the Kewaunee County Animal Waste Storage Ordinance Page 130	**County Priority #5** Accept, review and approve 4 permit applications and designs for manure storages and transfer systems and/or leachate collection pits	**County Priority #5** (See above under permits issued/obtained)
County Priority #6 Assist NRCS/Peninsula Pride Farms with Three Demonstration Farms in Kewaunee County (Pages: 135-136)	**County Priority #6** Assist in Peninsula Pride & Demonstration Farms tours/soil health days and continue to represent LWCD on the Committees	**County Priority #6** • Number of Tours: 0 • Number of Demonstrations: 2 • Newly established practices b/c of Demo farms – increase in NT/Cover Crops (working on that number)

Kewaunee County 2022 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

Permits and Ordinances	Plans/application reviews anticipated	Permits issued in 2022
Feedlot permits	0	N/A
Manure storage construction and transfer systems	3	11
Manure storage closure	5	6
Livestock facility siting	N/A	N/A
Nonmetallic/frac sand mining	27	26
Stormwater and construction site erosion control	N/A	N/A
Shoreland zoning	3	3
Wetlands and waterways (Ch. 30)	3	3
Other: Irrigation Waste Ordinance Permits	0	0

Table 3: Planned inspections

Inspections	Number of inspections completed
Total Farm Inspections	185
For FPP	Do these together
For NR 151	Do these together
Animal waste ordinance	3
Livestock facility siting	N/A
Storm-water and construction site erosion control	N/A
Nonmetallic mining	26
Irrigation Waste Ordinance	0

Table 4: Planned outreach and education activities

Activity	Number Completed in 2022
Tours	0
Field days	3
Trainings/workshops	5
School-age programs (camps, field days, classroom)	0
Newsletters	0
Social media posts	14
News release/story	4

Kewaunee County 2022 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

Staff/Support	Hours	Costs (2021 Wages + Benefits)
County Conservationist	2080	$119,203.18
Conservation Technician	2080	$100,040.90
Conservation Specialist II	2080	$76,405.30
Administrative Assistant	2080	$75,318.86
Conservation Specialist I	832	$23,574.00
Cost Sharing		
Bonding	Above with Technician/County Con hours	$102,000 (includes 2021 carried over practices)
SEG	Above with Cons. Specialist/County Con hours	15,000

Kewaunee County 2023 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

Table 1: Planned activities and performance measures by category

CATEGORY (goal and objective from LWRM plan can be added in each category)	PLANNED ACTIVITIES WITH BENCHMARKS If applicable identify focus areas, e.g. HUC 12 watershed code	PERFORMANCE MEASUREMENTS
• *Cropland*		
Cropland # 1. **Farm inspections to implement state performance standards and prohibitions including new Silurian Dolomite; implement Chapter 39 (local NR151)** Goal #1 Objectives 1-7: Page 114 Goals/Objectives #1.1 & #1.2 – Pages 118-119 & Pages 126-130 NRCS Plan DFC & Action Items – Page 95	**Cropland # 1.** • Conduct 100 farm inspections. Document & Map NR 151 & FPP compliance status in 2023 focused on Kewaunee River (0403010203) & Ahnapee River (040301020204) & Red River (040301020406) • Inspect & follow up on animal waste manure complaints • Assist landowners in complying with NR151 • Document compliance and non-compliance issues with Chapter 39	**Cropland #1.** • # inspections performed • # acres walked over • # of compliance certificates issued • # of certificate numbers issued total • # of compliance schedules or letters issued • # Notice of Non-Compliance issued • # DNR / EPA assisted walkovers • # new Karst features documented • # acres probed to verify depth of bedrock
Cropland # 2. **Cropland conservation practices <u>installed</u> to implement state performance standards and prohibitions** Goals/Objectives 2.1 – Page 121 Goals/Objectives 2.3 – Page 121 Goals/Objectives 3.1 & 3.3 – Page 124 And Pages 128-129	**Cropland # 2.** • 4-5 waterways surveyed, designed & installed • 4 (New) nutrient management plans cost-shared (County) goal of 200 acres new a year • Increase Cover Crops on fields not meeting T (try to get covered acres increased by 25%) Provide technical assistance including design preparation & construction oversight for conservation practices to be installed in 2024	**Cropland # 2.** • # of staff hours expended for design/installation • Type and units of practice(s) installed • Amount of cost-share dollars spent • # acres of cropland in compliance with a performance standard (e.g. soil erosion, tillage setback) • # "New" Acres under NM • Acres installed of GWW • Acres of covered land (cover crops)
Cropland # 3. **Nutrient Management Planning & Implementation / Compliance with NR151 & FPP** Goals/Objectives: #1 (page 118), #3 (page 123), & #3.3 (page 124) NRCS Plan DFC & Action Items – page 93	**Cropland # 3.** • Accept, review, approve, and Map into ArcGIS, 270+ Nutrient Management plans • Verify 25% of plans in the field to ensure implementation compliance • Cross reference NMPs to avoid the same spreadable lands being included in more than one plan. • Enter all tillage into GIS w/crops • Enter manure spreading records per field into GIS • Conduct 20 hauling audits (10-spring/summer & 10 fall/winter) • Conduct Farmer Led Nutrient Management Planning	**Cropland # 3.** • # of Hauling Audits • # of "total acres" under 590 plans • % of acres under 590 plans • # "new acres" under 590 plans • # plans reviewed, approved, and mapped • # actual hauling records received • # Farmers attending & writing own NMP • # plans verified in the field

Kewaunee County 2023 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

Cropland #4. Conservation Planning Goal: 100% acres (currently at 80%) Goals/Objectives #3, #3.1 & #3.3 Pages 123-125 NRCS Plan DFC & Action Items – page 94	Class for 2023 • Secure funding for 2024 Farmer Led NMP Class • Hauling records received percent (close to 100% goal) **Cropland # 4.** • Enter/review/update 100 Conservation Plans (642 plans in office) into Toolkit with current Conservation Crop Rotations • Write 10 New Conservation Plans for New FPP participants • Increase no-till acres and decrease tillage on fields not meeting T (annual goal of 25% increase)	**Cropland # 4.** • # of Conservation Plans entered/reviewed/updated into Toolkit • # new Conservation Plans approved • # acres updated with current Conservation Crop Rotations • #acres – newly under no-till or reduced tillage • #acres now meeting T

- *Livestock*

Livestock #1. **Livestock facility conservation practices <u>installed</u> to implement state performance standards and prohibitions** Goals/Objectives are same as NR151 (Priority 1) and Pages 128-129	**Livestock #1.** Provide technical assistance including design preparation & construction oversight for installed livestock practices & practices to be installed in the following year (NR151 compliance) • 2 new manure storages • 3 manure storage abandonments • 2 leachate collection system with VTA Provide technical assistance including design preparation & construction oversight for livestock practices to be installed in 2024	**Livestock #1.** • Type and units of practice(s) installed – • Amount of cost-share dollars spent • # of livestock facilities in compliance with a performance standard

- *Water quality*

Water Quality #1. **Conservation practices <u>installed</u> to implement LWRM priorities (CREP) (Water Quality Protection & WQMA's)** Goal/Objectives 2, 2.1, 2.3: Page 121 and 139	**Water Quality #1.** • Enroll ~ 5 acres into new CREP contracts focused on Kewaunee River (0403010203), Ahnapee River (0403010202) & East Twin (0403010201) HUC 10 Watersheds • 1 site need to be walked over for expiring contracts / or for eligibility	**Water Quality #1.** • Acres of CREP installed (CREP DATCP spreadsheet) • Amount of cost-share dollars spent • # lbs of sediment reduced (CREP DATCP spreadsheet) • # lbs of P reduced (CREP DATCP spreadsheet) • # lbs of N reduced (CREP DATCP spreadsheet) • #sites walked for expiring contracts / or eligibility

Kewaunee County 2023 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

Water Quality #2. **Groundwater Testing Research & Outreach & Education & Well Abandonment** Goal/Objective #1 – Page 118 Goal/Objective #1.3 – Page 119 And page 135 NRCS Plan DFC & Action Items – page 97	**Water Quality #2.** • Promote and provide technical and cost-sharing assistance for properly abandoning 5 unused rural wells (throughout Kewaunee County) • Continue to provide support for Groundwater testing and monitoring throughout Kewaunee County • Voluntary Well Testing Program (increase participation, especially with 1st time testers) • Increase awareness of testing wells annually • Partner with Public Health Department to provide well testing opportunities • Secure funding for well testing & carry out grant • Contact state and federal agencies to provide matching funds for well-testing	**Water Quality #2.** • # wells properly abandoned • # landowners who received letters to properly abandon wells • # wells tested • # Landowners assisted with well testing / groundwater issues • % tested well unsafe (bacteria and/or nitrates) • Grants received

- *Forestry – None*
- *Invasive*

Invasive species #1 Page 64, 141	**Invasive species #1** • Treatment of Invasive Species (acres) • Continue to Inventory current species in the County • Continue Clean Boats Inspections on Lakes/Kewaunee • Partnering with Glacierland RC&D on grants	**Invasive species #1** • # of surveys conducted / completed • # of invasive species documented • Grants sought / received & partnerships developed • Acres being actively treated • #Site Visits

- *Wildlife*

Wildlife #1. Increase wildlife diversity	**Wildlife #1.** • Continue to contract with USDA for Wildlife Damage Program	**Wildlife #1.** • Acres of County planted to native grasses/wildlife

Kewaunee County 2023 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

- *Urban - None*
- *Watershed*

Watershed Project #1. **Northeast WI TMDL** Goal/Objective #2.4 –Page 122 And Pages 131-132 NRCS Plan DFC/Action Items – Page 96	**Watershed Project #1.** • Assist DNR in plan development • Assist in implementing TMDL on Ahnapee, Stony, Kewaunee & Twin Rivers in 2023	**Watershed Project 1** • Document progress on TMDL • Waterways removed from 303d EPA listing
Watershed Project #2 **9 Key Element Plans** Goal/Objective #2.4 –Page 122 Pages 98-109 and pages 132-133 NRCS Plan DFC & Action Items – page 96	**Watershed Project #2** Implement 9-key element plan (Ahnapee River) Annual goals • 50 acres cover crops + NMP • 100 acres residual + NMP • 20 acres of grass filters + NMP • 75% Implementation of NMP • 0.2 acres' feedlots w/ waste management system • 100 feet GWW Seek approval for the Kewaunee River Watershed 9 key element plan	**Watershed Project #2** • Final Approval on Ahnapee River 9 Key Element Plan • Document progress of annual goals • Document TSS, P, N decreases • Plans completed and/or status of plans • Get Kewaunee River 9-key Plan approved

- *Other*

County Priority #1. **Locally administer the Kewaunee County Non-Metallic Mining Reclamation Ordinance** Page 137	**County Priority #1** • Accept, review and approve new, amended and/or renewed permit applications (27), and reclamation plans. • Review mines if any are fully reclaimed. • Annually visit 15 pits	**County Priority #1** • # NMM permits reviewed, approved • # NMM permits reviewed, not-approved • # pits or acres fully reclaimed (on-site visit required) • # onsite compliance checks performed
County Priority #2. **Locally administer the Kewaunee County Public Health & Groundwater Protection** Ordinance (Page 137)	**County Priority #2.** • Focus area land having less than 20 feet to bedrock	**County Priority #2** • # stacking / spreading variances for 2024 • # of Notice of Violations Issued
County Priority #3. **Locally administer the Agricultural Waste & Process Wastewater Irrigation Ordinance** Goal/Objective #3.2 – pages 124 & 138	**County Priority #3.** • Accept, review and approve new, amended and/or renewed permit applications for Agricultural Irrigation Ordinance	**County Priority #3** • # permits reviewed, approved • # permits reviewed, not-approved • # on-site visits

Kewaunee County 2023 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

County Priority #4. **Permits <u>issued</u> or <u>obtained</u> in connection with practices installed** Page: 130	**County Priority #4.** Issue 10 manure storage permits; ▪ Assist with 5 DNR permits ▪ Accept, review and approve 10 permit applications and designs for manure storages and transfer systems	**County Priority #4** • # of staff hours • # permits issued • # permits/plans reviewed, approved • # permits/plans reviewed, not-approved
County Priority #5 Locally administer the Kewaunee County Animal Waste Storage Ordinance Page 130	**County Priority #5** Accept, review and approve 10 permit applications and designs for manure storages and transfer systems and/or leachate collection pits	**County Priority #5** (See above under permits issued/obtained)
County Priority #6 Assist NRCS/Peninsula Pride Farms with Three Demonstration Farms in Kewaunee County (Pages: 135-136)	**County Priority #6** Assist in Peninsula Pride & Demonstration Farms tours/soil health days and continue to represent LWCD on the Committees	**County Priority #6** • Number of Tours • Number of Demonstrations • Newly established practices b/c of Demo farms

Permits and Ordinances	Plans/application reviews anticipated	Permits anticipated to be issued
Feedlot permits	0	N/A
Manure storage construction and transfer systems	5	5
Manure storage closure	5	5
Livestock facility siting	N/A	N/A
Nonmetallic/frac sand mining	27	27
Stormwater and construction site erosion control	N/A	N/A
Shoreland zoning	3	3
Wetlands and waterways (Ch. 30)	2	N/A
Other: Irrigation Waste Ordinance Permits	0	0

Table 3: Planned inspections

Inspections	Number of inspections planned
Total Farm Inspections	100
For FPP	100
For NR 151	100 (we do at the same time as FPP)
Animal waste ordinance	5
Livestock facility siting	N/A
Storm-water and construction site erosion control	N/A
Nonmetallic mining	15
Irrigation Waste Ordinance	0

Kewaunee County 2023 ANNUAL WORK PLAN
LOCALLY-IDENTIFIED PRIORITIES

Table 4: Planned outreach and education activities

Activity	Number
Tours	2
Field days	2
Trainings/workshops	5
School-age programs (camps, field days, classroom)	0
Newsletters	0
Social media posts	20
News release/story	8

Staff/Support	Hours	Costs (2022 Wages + Benefits)
County Conservationist	2080	$124,960.00
Conservation Technician	2080	$97,112.00
Conservation Specialist II	2080	$79,102.00
Administrative Assistant	2080	$78,561.00
Conservation Specialist I	832	$68,941.00
Cost Sharing		
Bonding	Above with Technician/County Con hours	$45,686.15
SEG	Above with Cons. Specialist/County Con hours	

Kewaunee County - Land & Water Conservation Department					
Programs & Performance Measures	**Staffing Levels:**	**7.5**	**7**	**6**	**5**
(1) NR151/FPP	*Goals*	**2019**	**2020**	**2021**	**2022**
Conduct NR151/FPP Walkovers	*100/year*	114	120	87 (low b/c COVID)	185
# Compliance Schedules		37	13	16	33
# In Full Compliance		77	107	71	151
# NONC issued		11	5	0	1
# New Karst Features in GIS		481	567	977	674
Acres Probed/GPS (0-2' bedrock)		522	110	100	120
Chapter 39 Violations		16	4	5	7
Manure Spills (LWCD responded vs Total #)		13 of 21	6 of 13	4 of 4	9 of 13
(2) Cropland & Livestock practices (Designed/Installed by LWCD)					
Waterways (designed & installed)	*2 acres*	4 acres	1.5 acres	6 acres	1.5 acres
New Storage Facilities	*depends on contractors and cost sharing available*	2 Design/Install	2 Design/Install	0	0
Solid Manure Stacking Pads		0	0	0	0
Heavy Use Protection Area		0	1 Design/Install	0	0
MS Abandonments		2 Design/Install	3 Design/Install	1 Design/Install	6 Design / 3 install
Roof Gutters		0	0	2 Design/Install	0
Leachate Collection		0	0	3 Designed	1 install
(3) Nutrient Management NM Farmer Education					
# Plans Rec, Reviewed & Mapped GIS	*Review all*	266	272	269	272
# **New** Plans Received		2	4	2	5
Total Acres under NMP	*95%*	109,111	110,940	110,998	112,480
Total % Acres under NMP		79%	80%	80%	87%
# New Acres under NMP		2,214	1,829	430	583
Hauling Audits Conducted	*20*	25	10	10	16
LWCD **Farmer Education** NMP Class Participants		15	15	22	23
Farms in compliance with Hauling Records Policy	*100%*	88.3%	Not recorded	80%	87%

Conservation Planning	*Goals*	**2019**	**2020**	**2021**	**2022**
Cropland Acres under a Cons Plan	*95%*	Not recorded	Not recorded	> 85%	> 90%
New Conservation Plans		29	15	10	5
Conservation Reserve Enhancement Program (CREP)					
New Acres under CREP		62.67	0	8.11	2.30 (another 4.74 pending)
(4) Watershed Priority: 9 Key Element Planning					
Ahnapee River Watershed Plan		Sent corrections to DNR/EPA end of 2019	Approved by EPA & DNR	Started Implementation	
NMP in Ahnapee Watershed	*95%*		75%	Not recorded	91.8%
Kewaunee River Watershed	*2020 – Started Writing …Goal of 2023 to Finalize plan*				
Animal Waste Storage Ordinance					
# Permits Reviewed / Approved		10	10	5	17
# Inspections Done		8	2 (COVID)	1	3
Non-Metallic Mining Reclamation					
# NMM Annual Permits Reviewed	*Review all*	26	26	26	26
# of On-Site Compliance Checks	*5-10/year*	2 w/DNR	0 (COVID)	2	2
Irrigation & Wastewater Ordinance					
# Permits (acres active)		0	1 (40 acres)	0	0
Invasive Species					
Acres actively being treated	*By grant*	2018-2020 (8 acres Jap Knotweed); 627 acres Phragmities; 1-acre teasel; 5 acres Wild Parsnip		715.4 acres (Phragmities) (2021 & 2022)	
Strategic Plan Development		Started writing grant for Management Plan		Developed a Phase 1 Management Plan	Used to get grant to treat (above)
Surveys conducted and completed (Glacierland Volunteers)			Clean Boats (East Alaska & Shea Lake)	Clean Boats (East Alaska & Shea Lake)	Clean Boats (West Alaska & Heidmann) 234 hours; 83 Boats 80 People
Sanitary					
Sanitary Systems in compliance	*100%*	Can't find	93%	Not reported	98.1%
(5) Groundwater Testing & Outreach & Education					
Private Wells Tested		110	39 (COVID)	600	600
Public Information Meetings		1 (In-person) 40 people	1 (Zoom) 20 people	2 (Zoom) 20 people each	2 (In-person) 60-75 people each

CORRESPONDENCE/MEMORANDUM **State of Wisconsin**

DATE: **May 24, 2023**

TO: **Land and Water Conservation Board Members and Advisors**

FROM: **Lisa K. Trumble, DATCP** Lisa K. Trumble
Resource Management Section,
Bureau of Land and Water Resources

SUBJECT: **Five Year Review of the *Green Lake County Land and Water Resource Management Plan***

Recommended Action: This is an action item. The LWCB should determine whether the county has met the LWCB's criteria for a five-year review of a LWRM plan approved for ten years. If the LWCB makes a formal determination that the county has failed to meet these criteria, DATCP will automatically modify its order to terminate approval of the county's plan effective December of this year.

Summary: The Green Lake County land and water resource management plan has been approved through December 31, 2028, contingent on a five-year review conducted prior to December 31, 2023. In advance of the five-year review, Green Lake County has completed a DATCP approved form designed to implement the LWCB's reference document dated October 27, 2021, and the criteria for conducting a five-year review. The county has provided written answers to four questions regarding past and future implementation, has provided the required work planning documents, and has appropriately involved the Land Conservation Committee.

Materials Provided:
- Completed Five Year Review Form
- 2022 Annual Workplan with Accomplishments
- 2023 Annual Workplan
- Green Lake County Ranking Sheet

Presenter: Todd Morris, County Conservationist, Green Lake County LCD
Robert Schweder, Land Conservation Committee Chair

Land and Water Conservation Board
County Land and Water Resource Management Plan
Five Year Review of LWRM Plans

County: Green Lake

Implementation Covering Past Five Years and Future Directions

Answer these four questions in writing (not to exceed 4 pages)

1. Provide a representative number of accomplishments that can be directly traced to activities identified in multiple work plans. For each accomplishment, explain how the planning process helped the county achieve its outcome, including planning adjustments that helped better target county activities.

   One accomplishment that we have achieved is implementing and promoting the Farmland Preservation Program (FPP) and Agricultural Enterprise Areas (AEA). This was identified as one of our work goals in our LWRMP and also in our 2022 Annual Work Plan. In 2020 we worked with landowners in the Town of St. Marie to submit an application for 19,725 acres for AEA designation. This designation was approved on January 1, 2021. Then again in 2022 we were approached by landowners in the Town of Princeton on interest in establishing an AEA in their township. Another petition was submitted and the Town of Princeton AEA was approved on January 1, 2023 for 17,031 acres. These are two significant areas for designation in our county. First to preserve the long history of agriculture in these areas, but also because these townships are not zoned they were ineligible for FPP before designation. These areas have had lower rates of landowner participation in conservation programs, specifically nutrient management planning. With the possibility of FPP credits we now have 7 landowners with farmland preservation agreements and nutrient management plans in the Town of St. Marie, and are working with 3 new participants in the Town of Princeton AEA and will be developing nutrient management plans with them also.

   A 9KE Plan was developed for the Green Lake Watershed. A reoccuring goal on our Annual Work Plans has been to target the Big Green Lake Watershed for practice installation to reduce the phosphorous load to the lake. This has been accomplished with a WDNR Lake Protection Grants, Targeted Runoff Management (TRM) Grants, and development of 9KE Plan for the Green Lake Watershed. The 9KE plan was completed in April 2022. This plan is the guiding document for the Green Lake Watershed and allows the county along with the members of the lake management planning team to leverage funding sources to meet the goals in the plan. This has already been evident in the award of a $600,000 TRM grant, and an application for $525,000 in a Great Lakes Restoration Initiative (GLRI) grant for the watershed.

   Installation of best management practices is always a goal during annual planning. In the last 5 years this has helped track project status and goals. From 2018 - 2022 Green Lake County has installed 104 best management practices and reduced 9187 lbs of

phosphorous and 4343 tons of sediment from our waterways. We are on track with meeting our reduction goals established in our 2018 LWRM Plan.

2. Identify any areas where the county was unable to make desired progress in implementing activities identified in multiple work plans. For each area identified, explain the work plan adjustments that were made to refocus planned activities. If no areas are identified, explain how the county was able to make progress in all the areas planned.

Looking back at the last 5 years work plans, the main area that we have not been achieving our goal has been structural BMP installation. Green Lake County has been identifying waterways, WASCOB's, Grade Stabilization Structures, and Streambank Protection units but we have been falling short on units installed. The county keeps a tracking sheet of practices that landowners would like to install and each project is ranked based on the LWRM Plan goals. When annually planning we utilize this tracking sheet to estimate practices we believe we can fund with cost sharing. In the past 5 years we have been seeing an increase in the cost to install practices, and are not able to install as many as planned. Our ranking sheet has allowed the county to select the most critical sites that will provide the most savings for the money. Utilizing additional funding sources will also assist in achieving our goal by refocusing on less costly but higher savings practices. For example TRM and GLRI funding is more directed towards cover crops, no-till, and low disturbance manure injection where there is less cost to install but increased phosphorous and sediment reductions.

Another area that we have not made progress is the goal of Protecting Groundwater Resources. We have been completeing well abandonments in the county and over the last 5 years have completed 23 abandonments. Where we have fallen short is with developing a well testing program. We are working on correcting this in the next 5 years by starting an annual well testing program. Our goal is to test 150 wells per year to increase awareness and education of our groundwater resources.

3. Describe how the county's work plans implement its priority farm strategy and the effectiveness of county actions implementing agricultural performance standards and conservation practices on farms. In particular, the county should describe outreach, farm inventories, and additional funds that were pursued to implement its strategy.

When our annual work plans are developed the priority sites listed in our LWRM Plan are utilized. The county maintains a spreadsheet of potential interested landowners and associated practices. We also utilize our county LWRM Plan ranking sheet. This sheet gives a value to each priority area that we have identified in our plan. Each landowner that expresses interest in participating is run through the ranking sheet. Also in our LWRM Plan there is a funding pool breakdown. The projects are placed in the applicable category and ranked among other projects. When developing our work plans we use this tracking sheet to make sure that we are planning for and implementing priorites identified in our LWRM Plan.

Outreach is through field days, trainings/workshops, social media posts (facebook, website), mailings, and local newspaper. Also one-on-one contact with landowners participating in FPP while conducting annual compliance checks. We utilize Transcendent

Technologies Land Conservation Suite software to track FPP, Farmland Inventories, Nutrient Management and Best Management Practices.

Additional funding sources pursued are; TRM Grants, Great Lake Restoration Initiative Grant in Green Lake Watershed, WDNR Lake Protection Grants (Twin, Green Lake, Puckaway, Little Green Lake, Grand Lake), County funding for buffer program and groundwater program, and NRCS EQIP.

4. Provide representative examples that show changes in direction for work planning in the upcoming five years, with specific examples provided showing adjustments in planned activities in the county's most recent work plan.

With our new groundwater program we will be work planning on well testing and groundwater education. In 2023 we tested 150 private wells. We will also be holding an educational meeting with homeowners to go over their results. As test results come back, I anticipate identifying additional areas for nutrient management planning and implementation in areas that come back with high nitrate levels. As an educational component of our program, free well screening will be provided at the county fair. In 2023 and 2024 we will utilize Green Lake County ARPA funds, but in 2025 and beyond this program will be funded jointly by the Land Conservation Department and the Health and Human Services Department.

Another adjustment made is with an approved 9KE Plan for the Green Lake Watershed we will be planning our workload to meet the 9KE Plan goals. The 9KE Plan goals align with our LWRM Plan goals, but we will be focusing additional time in this specific watershed. Along with the 9KE Plan approval two grant opportunities came up to assist in meeting our goals. The first is a TRM Grant for the Green Lake Watershed and the second is a GLRI Grant for Roy and Wuerches Creeks, subwatersheds in the Green Lake Watershed that are identified as areas of concern due to high phosphorous loadings. In this watershed our work plan focus will be on soil health practices, such as cover crops, no-till, and low disturbance manure injection.

Annual Work Plans

Attach both of the following:

a. The most current annual work prepared by the county.

b. The work plan for the previous year that includes a column that identifies the progress in implementing the planned activities for that year.

Board Review Process

The goal of the review is not to fail counties. The board recognizes the dynamic nature of the planning process. Board members are interested in how counties tackle priorities over time and how they respond to changing conditions in pursuing their priorities. The board will evaluate a county's planning and implementation based on how well the county balances and prioritizes the following: agricultural performance standards, other state priorities (impaired waters, FPP checks), and local priorities. When needed, the Board will provide constructive support to

counties to improve the quality of their planning. Counties have the option to prepare a brief presentation to illustrate their successes and future priorities.

Land Conservation Committee Notification

The LCC was provided a completed copy of these questions (including attachments) on: May 11, 2023

Signature of Authorized Representative: _____ **Date:** 5/17/2023
(e.g. County Conservationist, LCC chair)

Send completed questionnaire and attachments to:
Lisa.Trumble@wi.gov

GREEN LAKE COUNTY 2022 ANNUAL WORK PLAN
LOCALLY IDENTIFIED PRIORITIES

Table 1: Planned activities and performance measures by category

CATEGORY (goal and objective from LWRM plan can be added in each category)	PLANNED ACTIVITIES WITH BENCHMARKS If applicable identify focus areas, e.g. HUC 12 watershed code (examples of types of "planned activities" in italics)	PERFORMANCE MEASUREMENTS (examples in italics)
• *Cropland*		
Cropland, soil health and/or nutrient management Goal 1, Objective 1 Goal 1, Objective 2 Goal 2, Objective 1 Goal 4, Objective 4	*-Target Big Green Lake Watershed (Lake Protection Grant)* *- Install 5 acres of Grassed Waterways, 100 feet of Lined WWs, 4 Grade Stab Structures, 120 feet of Terraces, 100 acres of No-till and 500 acres of Cover Crops* *- Plan 750 acres of new NMP acres with 1 NMP training and 1 Snap+ training* *- Complete County-wide transect survey*	*Installed 0.86 acres of grass waterways, 1 grade stabilization structure, 340 acres of cover crops.* *Planned 1327 acres of NMP's* *2039.6 lbs of phosphorous reduced* *391.8 tons of sediment reduced* *$14,000.51 of SWRM of Bond/$54,216 of SWRM SEG* *$8892 of Lake Protection Grant funding* *54,191 acres in compliance with Performance Standards.*
• *Livestock*		
Livestock Goal 1, Objective 2 Goal 2, Objective 1	*-Target Big Green Lake Watershed (Lake Protection Grant)* *- Complete 1 Barnyard Runoff Control System* *- Install 1 Waste Storage / Transfer Facility* *-Install 5,000 square feet of Heavy Use Protection* *-Install 4,000 feet of Fencing* *-Install 1,100 feet of Livestock Piping*	*Installed 4318 feet of 4-Strand High Tensile Fence* *$5750 in EQIP funding* *Soil savings of 1.1 tons/yr.*
• *Water quality*		
Water quality/quantity (other than activities already listed in other categories) Goal 1, Objective 3 Goal 1, Objective 4 Goal 3, Objective 2 Goal 4, Objective 1	*-Target Big Green Lake Watershed (Lake Protection Grant)* *- Install 2,200 feet of Streambank and Shoreline Protection, 4 Well Decommissioning's* *- Maintain 26.9 acres of grass buffers using local Green Lake County Buffer Program funds* *- Increase grass buffers by 1.5 acres* *-Work with lake groups to begin implementation phase of new lake management plans from prior year (Green, Twin, Spring, Grand, Puckaway, Little Green)* *-Complete 9 Key Element plan for Green Lake* *-Utilize Lake Planning Grant funds to Install Soluble Phosphorous CAPTure P System and Monitor results*	*Installed 1300 feet of streambank protection, and 3 Well Decommissioning's* *Started implementing 9 Key Element Plan for Green Lake* *Working with all lake groups on implementing lake plans* *Installed Soluble Phosphorous CAPTure P system on existing grade stabilization structure.* *Maintained 26.9 acres of grass buffers – Buffer Program* *239 lbs of phosphorous reduced* *131 lbs of nitrogen reduced* *118 tons of sediment reduced* *$1380.50 of SWRM Bond* *$40,000 of Lake Protection Grant funding* *$9005.83 of local/County funding for buffer program*

GREEN LAKE COUNTY 2022 ANNUAL WORK PLAN
LOCALLY IDENTIFIED PRIORITIES

- *Forestry*

Forestry	*Practice installation*	*1 Forestry Management Plan Developed through EQIP* *3 Forestry Management Practice Designs through EQIP*

- *Invasive*

Invasive species Goal 1, Objective 3 Goal 3, Objective 1 Goal 3, Objective 4	*- Work with AIS Coordinator on AIS education and training for 3 lakes (Grand, Twin Lakes, Little Green)* *- Work with AIS Coordinator to train local volunteers for Clean Boats, Clean Waters Initiative* *- Work with AIS Coordinator in 2 partnership development activities (Purple loosestrife control, and boat wash for Green Lake)* *-Work with Central Wisconsin Invasives Partnership (CWIP) and cooperate with ongoing invasive species maintenance and control* *- Install High-Pressure Boat Wash Station at Dodge Memorial County Park launch*	*Signed Lake Monitoring and Protection Network agreement with Golden Sands Resource Conservation & Development Council to provide technical assistance to communities, stakeholders, and volunteers within Green Lake County to prevent the spread of AIS, provide education and AIS impacts and prevention, and to conduct lake monitoring.* *Contracted services with Golden Sands RC&D were curly leaf pondweed survey and mapping on Grand Lake, Point Intercept Survey on Grand Lake, Clean Boats Clean Waters LTE co-employment support to Green Lake.* *Install well and purchase pressure wash unit for boat wash station.* *Clean Boats Clean Waters inspectors at all eight launches on Green Lake* *Attended CWIP meetings and submitted letter of support for grant application*

- *Wildlife*

Wildlife-Wetlands-Habitat (other than forestry or invasive species) Goal 2, Objective 4 Goal 3, Objective 1 Goal 3, Objective 2	*-Assist NRCS in targeting 100 acres of Wetland Reserve in the Green Lake Watershed and throughout the County* *- Work with contracted USDA-APHIS representatives to run wildlife damage program*	*Eight Wildife Damage Claims for $49,815.99.*

- *Urban*

Urban issues Goal 1, Objective 5 Goal 2, Objective 2 Goal 2, Objective 3	*- Complete 1 Stormwater Mgmt Plan* *- Complete 10 Construction Site Erosion Control Plans* *- Working with Land Use Planning and Zoning Department to coordinate duties within Construction Site Erosion Control and Storm Water Mgmt*	*1 Construction Site Erosion Control and Stromwater Management Review and site visits* *13 Construction Site Erosion Control permits issued with followup site visits.* *Land Use Planning and Zoning Ordinance revision to involve Land Conservation Department with boathouse permits and erosion control permits needing to be issued.*

GREEN LAKE COUNTY 2022 ANNUAL WORK PLAN
LOCALLY IDENTIFIED PRIORITIES

- *Watershed*

Watershed strategies Goal 1, Objective 6 Goal 2, Objective 5 Goal 3, Objective 3	*- Work with DNR staff on the implementation phase of the TMDL plan for Upper Fox Watershed* *- Increase participation in St. Marie Ag Enterprise Area* *- Work with landowners to establish Ag Enterprise Area in the Town of Princeton*	*Attended 22 meetings of various organizations.* *Submitted 2022 TMDL spreadsheet to WDNR.* *Assisted 7 landowners in applying for farmland preservation agreements in St. Marie AEA totaling 1065 acres.* *Assisted landowners in Town of Princeton in submitting AEA designation petition to DATCP.*

- *Other*

Other Goal 4, Objective 1	*- Continue to hold Agriculture and Household Hazardous Waste Clean Sweep program*	*Held Agricultural and Household Hazardous Waste Clean Sweep* *Collected:* *9220 lbs. of hazardous waste* *900 gallons of waste oil* *425 gallons of antifreeze* *9282 fluorescent bulbs* *12,965 lbs. of electronic waste* *391 tires*

Table 2: Planned activity related to permits and ordinances

Permits and Ordinances	Plans/application reviews anticipated	Permits anticipated to be issued
Feedlot permits		
Manure storage construction and transfer systems	1	1 issued
Manure storage closure		
Livestock facility siting		
Nonmetallic/frac sand mining		
Stormwater and construction site erosion control	15	14 issued
Shoreland zoning		
Wetlands and waterways (Ch. 30)	1	
Other		

GREEN LAKE COUNTY 2022 ANNUAL WORK PLAN
LOCALLY IDENTIFIED PRIORITIES

Table 3: Planned inspections

Inspections	Number of inspections planned
Total Farm Inspections	*56 (56 inspected)*
For FPP	*56 (56 inspected)*
For NR 151	*56 (56 inspected)*
Animal waste ordinance	5 *(5 inspected)*
Livestock facility siting	
Stormwater and construction site erosion control	*11 (14 inspected)*
Nonmetallic mining	
Big Green Lake BMP Inspections	*26 (0 inspected)*

Table 4: Planned outreach and education activities

Activity	Number
Tours	2 (0 events held)
Field days	1 (1 event held)
Trainings/workshops	2 (3 events held)
School-age programs (camps, field days, classroom)	2 (2 events held)
Newsletters	0
Social media posts	15 (9 posts)
News release/story	2

Table 5: Staff Hours and Expected Costs (staff can be combined or listed individually)

Staff/Support	Hours	Costs
County Conservationist	2080	$119,851
Technician	8320	$355,269
Support Costs	1872	$59,566
Cost Sharing (can be combined)		
Bonding	*N/A*	$49,500
SEG	*N/A*	$30,000
EQIP	*N/A*	$100,000
Local (GL Sanitary District and GL Association)	*N/A*	$100,000

GREEN LAKE COUNTY 2023 ANNUAL WORK PLAN
LOCALLY IDENTIFIED PRIORITIES

Table 1: Planned activities and performance measures by category

CATEGORY (goal and objective from LWRM plan can be added in each category)	PLANNED ACTIVITIES WITH BENCHMARKS If applicable identify focus areas, e.g. HUC 12 watershed code (examples of types of "planned activities" in italics)	PERFORMANCE MEASUREMENTS (examples in italics)
• *Cropland*		
Cropland, soil health and/or nutrient management Goal 1, Objective 1 Goal 1, Objective 2 Goal 2, Objective 1 Goal 4, Objective 4	*- Implement Big Green Lake Watershed 9 Key Element Plan and TRM Grant in Green Lake watershed* *- Install 3 acres of Waterway Systems, 4 Grade Stab Structures, 600 acres of No-till and 600 acres of Cover Crops* *- Plan 750 acres of new NMP acres* *- Hold 1 Nutrient Management and Snap+ training* *- Rent out NT-Drill on 500 acres* *- Complete County-wide transect survey*	*Type and units of practice(s) installed* *Amount of cost-share dollars spent* *# lbs of sediment reduced (using any approved method)* *# lbs of P reduced (using any approved method)* *# acres of cropland in compliance with a performance standard* *# acres of NT Drill use*
• *Livestock*		
Livestock Goal 1, Objective 2 Goal 2, Objective 1	*- Implement Big Green Lake Watershed 9 Key Element Plan and TRM Grant in Green Lake watershed* *- Complete 1 Barnyard Runoff Control System* *- Install 2 Waste Storage Facilities* *-Install 5,000 square feet of Heavy Use Protection* *-Install 1,100 feet of Livestock Piping*	*Type and units of practice(s) installed* *Amount of cost-share dollars spent* *# lbs of sediment reduced (using any approved method)* *# lbs of P reduced (using any approved method)* *# of livestock facilities in compliance with a performance standard*
• *Water quality*		
Water quality/quantity (other than activities already listed in other categories) Goal 1, Objective 3 Goal 1, Objective 4 Goal 2, Objective 1 Goal 3, Objective 2 Goal 4, Objective 1	*- Implement Big Green Lake Watershed 9 Key Element Plan and TRM Grant in Green Lake watershed* *- Install 5,000 feet of Streambank and Shoreline Protection* *- Target 5 acres for Saturated Buffers in Wuerches Creek Watershed* *- 4 Well Decommissioning's* *- Maintain 26.9 acres of grass buffers using local Green Lake County Buffer Program* *- Increase grass buffers by 1.5 acres* *-Work with lake groups to begin implementation phase of new lake management plans from prior year (Green, Twin, Spring, Grand, Puckaway, Little*	*Type and units of practice(s) installed* *Amount of cost-share dollars spent* *# lbs of sediment reduced (using any approved method)* *# lbs of P reduced (using any approved method)* *# wells tested* *# wells screened*

	Green) *- Installation/Monitoring of CAPTure P System* *- Develop Groundwater Testing Program for county and test 150 homeowner wells* *- Provide free well screening for 100 individuals at Green Lake County Fair*	

- *Forestry*

Forestry	*- Rent out Tree Planter to landowners*	*# Landowners rented to* *# acres of trees planted* *# trees planted*

- *Invasive*

Invasive species Goal 1, Objective 3 Goal 3, Objective 1 Goal 3, Objective 4	*- Coordinate technical assistance and education with Golden Sands RC&D through Lake Monitoring & Protection Network Cooperative Agreement* *- Coordinate Citizen Lake Monitoring Network with Golden Sands RC&D* *- Work with Golden Sand RC&D to train local volunteers for Clean Boats, Clean Waters Initiative* *- Work with Golden Sands RC&D implementing Purple loosestrife biological control.* *-Work with Central Wisconsin Invasives Partnership (CWIP) to conduct an invasive species inventory on 40 acres of county owned lands and provide control measures on 10 of those acres.* *- Install High-Pressure Boat Wash Station at Dodge Memorial County Park launch*	*# contacts/deliverables from Golden Sands RC&D through LMPN* *Number of surveys completed* *Number of control efforts implemented/sites treated* *# CWIP projects and meetings attended* *# boats utilizing boat wash station*

- *Wildlife*

Wildlife-Wetlands-Habitat (other than forestry or invasive species) Goal 2, Objective 5 Goal 3, Objective 1 Goal 3, Objective 2	*-Provide No-till drill for planting of 200 acres of native prairie grass habitat throughout County* *- Promote the establishment of 5 acres of prairie strips* *- Work with contracted USDA-APHIS representatives to run wildlife damage program*	*acres of native prairie planting* *acres of prairie strips established* *# of wildlife damage claims and damage amount*

- *Urban*

Urban issues Goal 1, Objective 5 Goal 2, Objective 2	*- Complete 1 Stormwater Mgmt Plan review* *- Complete 12 Construction Site Erosion Control Plans*	*Number of site visits* *Number of plans reviews* *Number of permits issued*

Goal 2, Objective 3	*- Working with Land Use Planning and Zoning Department to coordinate duties within Construction Site Erosion Control and Storm Water Mgmt*	*Number of compliance issues resolved*

- *Watershed*

Watershed strategies Goal 1, Objective 6 Goal 2, Objective 5 Goal 3, Objective 3	*- Work with DNR staff on the implementation phase of the TMDL plan for Upper Fox Watershed* *- Increase participation by 9 landowners in St. Marie Ag Enterprise Area* *- Promote and encourage participation in newly established Princeton Ag Enterprise Area, assist 4 landowners with applications.*	*Number of meetings attended/presentations given* *Number of partner contacts made* *Number of partnership development activities accomplished* *Number of Farmland Preservation Agreements signed*

- *Other*

Other Goal 4, Objective 1	*- Continue to hold Agriculture and Household Hazardous Waste Clean Sweep program*	*Number of households served* *Amount of waste collected*

Table 2: Planned activity related to permits and ordinances

Permits and Ordinances	Plans/application reviews anticipated	Permits anticipated to be issued
Feedlot permits		
Manure storage construction and transfer systems	2	2
Manure storage closure		
Livestock facility siting		
Nonmetallic/frac sand mining		
Stormwater and construction site erosion control	13	13
Shoreland zoning		
Wetlands and waterways (Ch. 30)	1	1
Other		

GREEN LAKE COUNTY 2023 ANNUAL WORK PLAN
LOCALLY IDENTIFIED PRIORITIES

Table 3: Planned inspections

Inspections	Number of inspections planned
Total Farm Inspections	*65*
For FPP	*65*
For NR 151	*65*
Animal waste ordinance	34
Livestock facility siting	
Stormwater and construction site erosion control	*13*
Nonmetallic mining	
Big Green Lake BMP Inspections	*26*

Table 4: Planned outreach and education activities

Activity	Number
Tours	2
Field days	1
Trainings/workshops	2
School-age programs (camps, field days, classroom)	2
Newsletters	0
Social media posts	15
News release/story	2

Table 5: Staff Hours and Expected Costs (staff can be combined or listed individually)

Staff/Support	Hours	Costs
County Conservationist	2080	$113,765
Soil Conservationist III	2080	$102,838
Soil Conservationist II	2080	$95,550
Soil Conservationist I	*2080*	$62,483
Soil Conservationist I	*2080*	$69,867
Administrative Assistant	*2080*	$66,513
Cost Sharing (can be combined)		
Bonding	*N/A*	$50,000
SEG	*N/A*	$30,000
EQIP	*N/A*	$60,000
TRM – Green Lake Sanitary District	*N/A*	$588,000
DNR Surface Water Grant – CAPTure P System	*N/A*	$50,000

Green Lake County Land and Water Plan - Ranking Sheet

October 2018

Owner's Name	
Address	
Farm Number	**Tract**

A Priority Farm/Area Strategy

1 ***Is the Conservation Treatment Unit located***

1a	EVAAL priority? (H=100 pts, M=50 pts or L=0 pts)		
1b	Within the Water Quality Management Area (WQMA)? 50 pts		
	(300 ft of a USGS delineated stream or 1000 ft of a WDNR identified lake?)	N	0
1c	Within a 303d, Outstanding (ORW) or Exceptional Resource Water (ERW) Watershed? 50 pts		
1d	Within the Green Lake Watershed? 50 pts	N	0

B Nutrient Management

2 ***Nutrient Management Planning***

2a	Planned acres within the WQMA	x 2 pts =	0
2b	Planned acres outside the WQMA	x 1 pts =	0

C Soil Erosion Control Practices (based on the most recent State approved soil erosion model)

3 ***Sheet/Rill Erosion (Average for the Conservation Treatment Unit)***

3a	Existing Soil Loss		tons/acre
3b	Soil Loss After (-)		tons/acre
3c	Soil Savings	0	tons/ac/yr *(transfer to lines 3d and 3e)*

3d	0	Tons/Ac/Yr x		Acres within the WQMA	0	x 2 pts	0
3e	0	Tons/Ac/Yr x		Acres outside the WQMA	0	x 1 pt	0

4 ***Gully and Streambank Erosion (Average Annual Loss)***

4a	Gully erosion within the WQMA (tons/yr)	x 2 pts =	0
4b	Gully erosion outside the WQMA (tons/yr)	x 1 pt =	0

D Livestock Waste Management

5 ***Barnyards/Feedlots***

5a	"BERT" Score (Before)			
5b	"BERT" Score (After)			
5c	Barnyard Improvement Score (Subtract line 5b from 5a)	0	x 4pts =	0

5d	Implementation of planned practices will address: (5 pts each)	
5e	Overflow of storage structures	
5f	Unconfined manure stacking within the WQMA	
5g	Direct runoff from feedlots or stored manure to waters of the state	
5h	Unlimited livestock access to the waters of the state	
5h	Diverting clean water from feedlots/barnyards within the WQMA	
5j	Abandonment of unused manure storage structures	

E Ground Water Resources

6a	Well Abandonment (25 pts/each)		Number of wells:	
6b	Sink Hole Treatment (10 pts/each)		Number of sink holes:	

F Fish and Wildlife Resources

7a	Fish/Wildlife Habitat Improvements (20 pts)	

G Total Resource Management

8a	Will installation of practices bring farm into NR 151 compliance? (25 pts)	

Ranking sheet may be modified by LCD/LCC, contact for most recent version

TOTAL 0

DATCP REPORT
Bureau of Land and Water Resources
June 2023

Soil and Water Resources Management Grants

- 2023 SWRM Schedule of Awards were emailed May 19. If you have not, **please confirm receipt** of the documents via a reply email to Kim or Susan.
- ATCP 50 Lesson: ATCP 50 is the rule which governs the SWRM program. It includes details regarding how different sources of funds may be used. ATCP 50 is currently open for public comment as part of DATCP's efforts to update the rule. See the next section of this Report. Some sections to check out:
    - Staffing Grants – ATCP 50.32
    - Cost-Share Grants – ATCP 50.34
    - Cooperator / NMFE Grants – ATCP 50.35

ATCP 50 Rule Revision Update

- The public comment period for ATCP 50 draft rule language is now open until June 23, 2023. Draft rule language can be viewed here and comments can be sent to DATCPLANDWATER@wisconsin.gov. The Department will host public hearings on the hearing rule package.
    - June 13, 2023 at 1:00 pm at Calumet County Courthouse, Room 025
    - June 14, 2023 at 10:00 am at the Dept of Agriculture, 2811 Agriculture Dr., Room 106 and via zoom.
- A short summary of proposed changes is available on the agency website.

Nutrient Management News

- **Open Office Hour-Monday June 12th from 10 – 11 am: *Understanding the 590 Checklist***
  Join the DATCP Nutrient Management staff to have an open discussion about understanding the Nutrient Management 590 Checklist. We will walk through each section of the checklist and discuss what it means and how to verify compliance within the nutrient management plan. Questions can be submitted in advance to andrea.topper@wisconsin.gov or asked within the Office Hour. We look forward to seeing you!
  Click here to join the meeting
- Check the DATCP NM Homepage to find the newly released 2022 Nutrient Management Update!
- We are bringing back the Nutrient Management Regional Meetings! Registration is free and CEUs will be available. See the flyer here: 2023RegionalMeetingsFlyer.pdf (wi.gov)
    - August 28 - Register
      9 a.m. to 12 p.m.
      Rib Mountain Municipal Use Center
      227800 Snowbird Ave., Wausau, WI 54401
    - August 29 - Register
      9 a.m. to 12 p.m.
      James P. Coughlin Center (CPCC)
      625 E. County Road O, Oshkosh, WI 54901
    - August 31 - Register
      9 a.m. to 12 p.m.

CVTC Eau Claire Campus
620 W. Clairemont Ave., Eau Claire, WI 54701

- September 6 - Register
  9 a.m. to 12 p.m.
  Jefferson County Highway Department
  1425 South Wisconsin Drive, Jefferson, WI 53549
- September 7 - Register
  9 a.m. to 12 p.m.
  Lafayette County Multi Purpose Facility
  11974 Ames Road, Darlington, WI 53530

Soil Health

- The new Soil Health website has been launched and the landing page can be found here. Content will be added as it is developed so check back often. Contact randy.zogbaum@wi.gov with questions.

Livestock Facility Siting

- The 2022-2023 ATCP 51 Technical Expert Committee (TEC) final report is expected to be available later this month on the TEC's website.

Land and Water Conservation Board-LWRM Plans

- The Advisory Committee on Research will next meet virtually on July 11th from 9 - 10am. Parties that wish to address the Committee at future meetings should contact Zach Zopp @ zach.zopp@wisconsin.gov in advance to schedule the appropriate agenda item.
- The June 6, 2023, Land and Water Conservation Board meeting will be held in Green Lake County. Kewaunee and Green Lake County will present a 5-year review of their LWRM plans. Following the meeting the Green Lake County Land Conservation staff will lead a tour of various projects and sites in Green Lake County.

Conservation Engineering

- NRCS recently updated their website and as part of that process the location of design tools such as standard drawings, design spreadsheets and manuals/handbooks can now be found on the Field Office Technical Guide (FOTG) website linked here. These tools are found in the navigation pane on the left side of the webpage under:
  - Section 1 – General Resource References => Engineering Resources

Farmland Preservation Program and Agricultural Enterprise Areas (AEA)

- The 2023 AEA Petition cycle to designate new or modify existing AEAs is now open through July 28, 2023. Petition materials are available here. If you are planning to petition for an AEA in 2023, please contact Wednesday Coye (wednesday.coye@wisconsin.gov) to schedule your interview.
- We are prioritizing FP agreement applications that are submitted to the department by *Monday, November 6, 2023*. We will continue to accept and process agreement applications as they are received after that date however those submitted later than November 6th may not be processed before the end of the taxable year. Encourage landowners to apply early to ensure they can receive the 2023 tax credit. The FP agreement application can be found here.

- A new *Conservation Compliance for Farmland Preservation Program Participants* publication is ready and available here. This publication can be a useful tool to help potential or existing participants or new county staff understand the compliance requirements for FPP. Direct questions regarding conservation compliance to Cody Calkins @ cody.calkins@wisconsin.gov.
- Farmland Preservation Program staff will work with counties to craft outreach initiatives focused on areas of interest for renewable energy projects that are eligible for, or enrolled in, FP. Contact DATCPWorkingLands@wisconsin.gov to discuss needs or examples.

Conservation Reserve Enhancement Program (CREP)

- CREP Monitoring Intern Assistance - Kori Rogers, has come on board this summer as the CREP intern to focus on assisting LCD's with completing CREP easement site visits and record keeping. Site visits are essential for benchmarking the status of the conservation practice and identifying and communicating to landowners issues on the site prior to them becoming severe. Kori is eager to assist the LCD's. See message below from Kori with her contact information:

  My name is Kori Rogers, and I am the Conservation Reserve Enhancement Program intern for the 2023 summer. I have recently graduated from UW-Milwaukee with a degree in conservation and environmental science, with my other areas of study including biology and geography. I come from a small farming community in southern Wisconsin, so I am excited to be working for the State of Wisconsin through CREP to advance conservation in agriculture and support our state's farmers and landowners in doing so. As you know, CREP is a collaborative program that involves partnered efforts of DATCP and the county conservationists. My role this summer is to assist the county in performing CREP easement monitoring visits to identify the landowner's status of compliance with their conservation plans. I will be reaching out to you within the next few weeks to schedule visits. In addition, I will prepare all necessary information and paperwork for each easement site prior to the visit as well as provide essential monitoring equipment, and complete follow-up paperwork after our visits. Again, I am excited to be working with CREP to promote sound use of land and water resources in support of agricultural production here in Wisconsin. I look forward to working with you all this summer! Feel free to reach out if you have any questions, concerns, or require any assistance regarding CREP easement monitoring via email Kori.rogers@wisconsin.gov or phone (608)444-3209.

- CREP Easement Monitoring Form Updated – DATCP has updated the statewide CREP easement monitoring form used by LCD's for documenting easement visits. A section at the top of page 1 was added to indicate the easement status. There are three status options 1) In Compliance, 2) In Compliance – Maintenance Needed or 3) Violation. We appreciate all your efforts to perform easement monitoring visits. LCD's completing visits on their own should check one of boxes prior to submitting the monitoring forms to DATCP. This will help DATCP with sending the correct follow-up correspondence to the landowner.

- CREP Easement Monitoring Training - The CREP Program is offering virtual CREP easement monitoring refresher sessions to help LCD staff prepare for easement monitoring. Please contact Brian Loeffelholz by email brian.loeffelholz@wisconsin.gov if you are interested in attending a refresher session or have questions regarding CREP easement monitoring.

Agricultural Impact Statement (AIS) Program

- The AIS program published an AIS for the City of Oshkosh's proposed Rural II Detention Basin in the Town of Algoma in Winnebago County, WI.
- Curious about what the AIS program is and does? Check out the Intro to the AIS program video at agimpact.wi.gov. Do you have questions about the AIS program? Check out our Frequently Asked Questions page that addresses many of your top AIS questions. You can also contact DATCPAgImpactStatements@wi.gov with questions

regarding any active AIS statement or the AIS program.

Producer-Led Watershed Protection Grant (PLWPG) Program

- The recording of the *Managing Your Producer-Led Grant*, webinar can be found here: Managing Your Producer-Led Grant - YouTube
- The 2024 PLWPG Program Request for Proposals will be released and available on the Producer-Led webpage on June 30th, 2023. Questions contact dana.christel@wi.gov.
- The 2022 Conservation Progress Report is complete and can be found here. Contact randy.zogbaum@wi.gov with any questions.
- The June newsletter is available for viewing here.

Nitrogen Optimization Pilot Program

- NOPP grant recipients and planned projects have been announced.
- To follow along with the NOPP recipients and learn about the work they are doing, you can request to join the Nitrogen Optimization Pilot Program Facebook group administered by UW-Extension.

Legislation Updates

- Senate Bill 59 and Assembly Bill 65 - Relating to: eligibility for producer-led watershed, lake, and river protection grants – Enacted into law May 9, 2023
- Senate Bill 134 and Assembly Bill 133 - Relating to: farmland preservation agreements and tax credits.
- Senate Bill 147 and Assembly Bill 131 - Relating to: membership in county land conservation committees.
- Senate Bill 220 and Assembly Bill 220 - Relating to: funding for the Fenwood Creek watershed pilot project.

CORRESPONDENCE/MEMORANDUM

State of Wisconsin

DATE: June 6, 2023

TO: LWCB members and advisors

FROM: Jill Schoen, DNR

SUBJECT: DNR Update, April 2023 - May 2023, for June LWCB meeting

Storm Water Program Update

Antidegradation Rule Making

The Department is undertaking rulemaking to update its antidegradation requirements for its Wisconsin Pollutant Discharge Elimination System (WPDES) permit programs. The rule proposes to update Wis. Admin. Code Chapters- NR 102, 103, 106, 207, 212 and 216. States with delegated National Pollutant Discharge Elimination System (NPDES) authority to implement the federal Clean Water Act are required to have antidegradation regulations to prevent the lowering of water quality and protect high quality waters from degradation by discharges of pollutants. The existing rule dates back to 1973 when the state received its initial delegated authority and was last updated in 1989. In 2015, the federal government updated its antidegradation rule language and the Department is required to do the same to be in compliance with its delegated authority. A public hearing on the rule was held on May 12, 2023, and the public comment period closed on May 19, 2023. The Department will review all comments received and make revisions, if necessary, based on the public comment. The rule package will then be reviewed by the Natural Resources Board this coming summer. The wastewater program led the effort with input from the Storm Water and CAFO programs.

Clean Watersheds Needs Survey

The US Environmental Protection Agency (USEPA) is undertaking a national inventory of all capital project costs that might be undertaken to protect water quality in the next 20 years. Staff in the Stormwater program reviewed stormwater management plans required for the 245 municipalities holding a municipal separate stormwater permit (MS4) for their stormwater discharges to surface water, plans required by municipalities to implement total maximum daily loads (TMDLs) and other available resources that identify stormwater projects communities intend to implement to inventory potential stormwater projects. Staff identified more than $680 million in stormwater quality capital projects that could be implemented in the next five to twenty years. Though additional needs certainly exist, this initial effort to identify projects is a first step in understanding stormwater projects meant to improve water quality across the state. The Community Finance program completed the inventory for wastewater programs and potential nonpoint source pollution throughout the state. The inventory is planned to be completed every five years.

Bipartisan Infrastructure Law

The stormwater program has two positions intended to provide technical assistance to communities to identify and implement stormwater projects that result in improvements to water quality. Matt Kaelin (matthew.kaelin@wisconsin.gov) and Grace Mikelsons (grace.mikelsons@wisconsin.gov) were hired in January of 2023 to fill these rolls. Matt works out of the Milwaukee office and Grace works out to the Eau Claire office. Matt and Grace can help communities identify potential projects and connect communities with funding opportunities, primarily those offered by the Community Finance program. If you are aware of communities that might benefit from the work Matt and Grace do, please send them their way.

Transportation General Permits for DOT
The Department is working on reissuing two general permits for the Wisconsin Department of Transportation (DOT). The Transportation Construction General Permit (TCGP) (WI-S066796-2) was issued April 14, 2023. The TCGP covers DOT construction projects that exceed one or more acres of land disturbing construction activity. The Department is also finalizing the Transportation Municipal Stormwater Permit (TS4) (WI-S066800-2).

CAFO Program Update
Spring inspection and manure hauling complaint response activities are in full swing for CAFO program staff. As a reminder – report manure spills to DNR's Spills Hotline 1-800-943-0003.

Surface Water Grants Program Update
With the passage of Wisconsin Legislature: 2023 Wisconsin Act 5, The Department has been working closely with the Department of Agriculture, Trade, and Consumer Protection grant staff to collaborate on the implementation of the bill. For further information on the impacts of Act 5 on the Surface Water Grant program, please keep an eye out for the upcoming Surface Water Grant Applicant Guide. This guidance will be released in June for public comment and will be finalized on the Surface Water Grant website in July.

NPS Grants Update
The TRM/UNPS 2022-2023 Annual Report is now available on the grant webpages. Also now available on the grant webpages is the Grant Program Handout [PDF].

https://dnr.wisconsin.gov/aid/TargetedRunoff.html

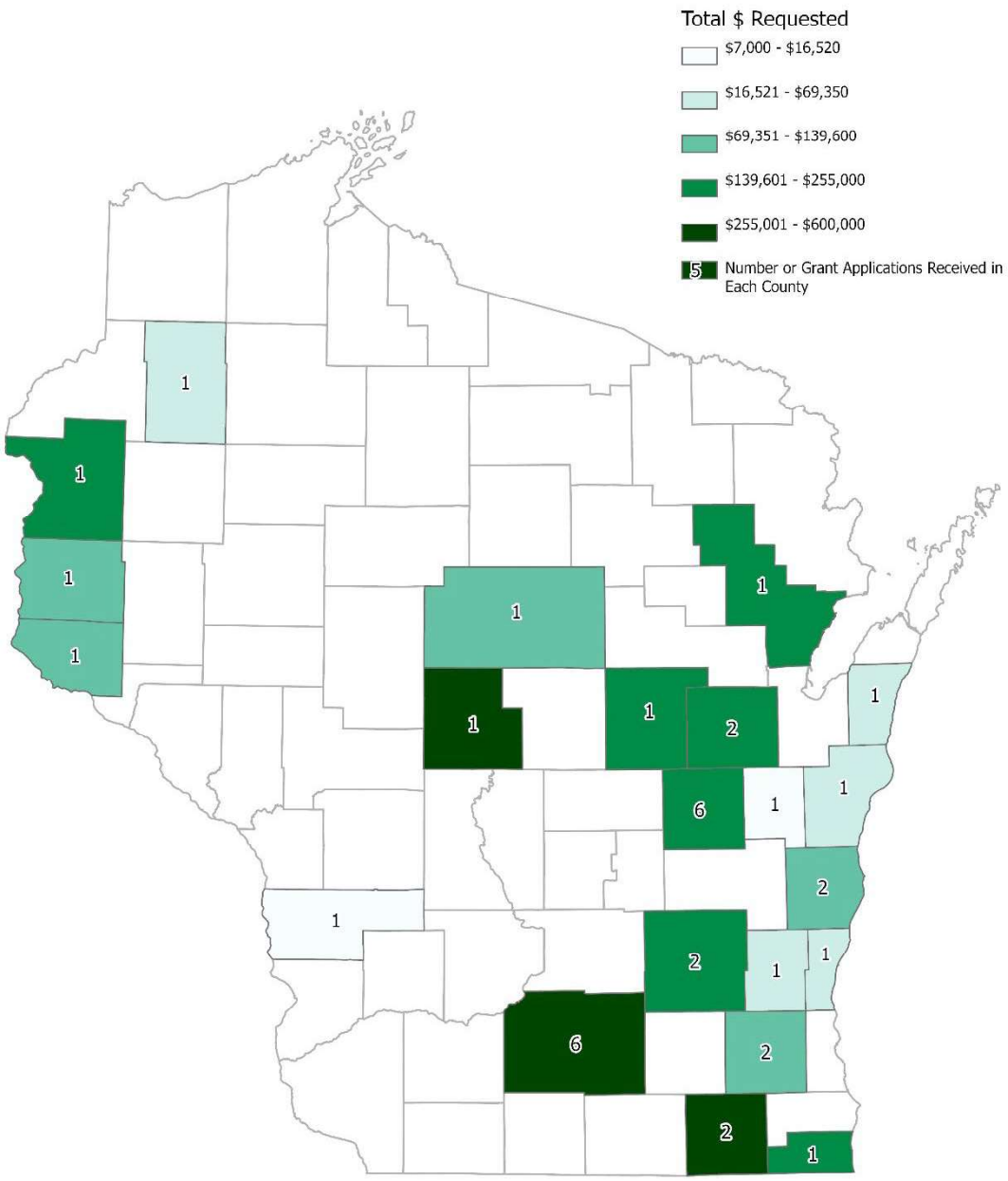
https://dnr.wisconsin.gov/aid/UrbanNonpoint.html

Applications and instructions for 2024 Targeted Runoff Management Grants and Urban Nonpoint Source & Storm Water Planning grants were due on April 17th.

Summary of 2024 grants submitted

Grant Type	Requested State Share	Number of Grants
Large-Scale TRM	$1,266,949	3
Small-Scale AG TRM	$991,443	6
Small-Scale Urban TRM	$386,000	2
UNPS Planning	$1,183,380	26
Total	**$3,827,772**	**37**

UNPS-Planning & TRM Grant Applications – 2024 Cycle



Nine Key Element Watershed Based Plans Update

In April 2023, WDNR and US EPA Region 5 staff, completed review of the *Marengo River Watershed Partnership Project Watershed Action Plan: Ten Year Revision* and determined it to be consistent with the US EPA 9 Key elements. This watershed plan, located in Ashland and Bayfield Counties, is historic – as it is the first time an existing nine element plan has been renewed and re-approved – after initial approval ten years ago.

The renewal plan provides updated milestones and strategies for local governments, agencies, organizations, and watershed residents to continue carrying out the plan's goals and objectives and attract the resources needed to facilitate them for the next ten years (2022-2032). The plan focuses upon implementing slow the flow strategies described within the Wisconsin DNR Office of Great Waters 2022 publication: Review and Recommendations for Slow the Flow Practices in Wisconsin's Lake Superior Basin [PDF], which provides a strategic watershed approach to reduce excessive water runoff that causes tons of sediment to erode into Lake Superior.

Watershed plans consistent with EPA's nine key elements provide a framework for improving water quality in a holistic manner within a geographic watershed. The nine elements help assess the contributing causes and sources of nonpoint source pollution, involve key stakeholders and prioritize restoration and protection strategies to address water quality problems. The first three elements characterize and set goals to address water pollution sources. The remaining six elements determine specific resources and criteria to implement and evaluate the plan.

Map 1: Marengo River Watershed